Ministry of Energy & Mines
Energy & Minerals Division
Geological Survey Branch

ASSESSMENT REPORT
TITLE PAGE AND SUMMARY

TITLE OF REPORT [type of survey(s)]	**TOTAL COST**
Diamond Drilling Assessment Report on the Captain Property	$448,503.73

AUTHOR(S): Ross D. Zawada, P. Geo SIGNATURE(S):

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): MX-13-154 (April 30/10) YEAR OF WORK: 2011-12

STATEMENTS OF WORK - EVENT NUMBERS/DATE: 5399052 (2012/AUG/09)

PROPERTY NAME: Captain

CLAIM NAME(S) (on which work was done): MTO cell (550248); Commodore 1 (550254), Commodore 14 (553522)

COMMODITIES SOUGHT: copper, gold

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 093J 005, 093J 026

MINING DIVISIONS: Cariboo & Omineca NTS: 93J/13W, 93K/16E, 930/04W

LATITUDE ____54____o ____50____' ____00____" LONGITUDE ___123____o ____55____' ____00____" (at centre of work)

OWNER & OPERATOR [who paid for the work]:
1) Orestone Mining Corp. 2)
MAILING ADDRESS:
1) 750 – 625 Howe Street 2)
Vancouver, B.C. V6C 2T6

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization):
Copper-gold mineralization at the Captain property is hosted in Triassic-Jurassic Takla Group volcanic rocks of Quesnellia Terrane in which numerous B.C. alkalic Cu-Au porphyries occur. Outcrops of one or more dioritic intrusions occur along the Salmon River and silicified dioritic to granodioritic intrusive rocks have been identified in the northern part of the property. Past drilling has intersected widespread Cu-Au mineralization, including 192 ppb Au and 1,622 ppm Cu over 38.4 m. The southern part of the property contains only sparse outcrop but previous drilling has shown monzonitc dykes and intrusions along with potassic altered andesite country rock. One previous drill hole (DH-09-05) in this part of the property bottomed in potassic altered andesite with grades of 0.21 per cent copper and 0.35 grams per tonne (g/t) gold over 3.1 m.

In the southwest part of the property, in the vicinity of DH-09-05, 5 holes totaling 1,275.59 m were completed in December 2011 and January 2012. The objective of the program was to test a number of copper-gold porphyry targets that were developed with the aid of surface IP and magnetic geophysical methods along with a limited amount of previous drilling.

The hole C11-01 intersected propylitic alteration in the first 100 m and below that depth to the end of the hole at 255.3 metres the alteration is more potassic. The interval from 127 metres to 216 metres contained 5-15 % pyrite and trace to minor chalcopyrite. Assays for this hole indicate an intercept of 89 metres from 127 metres to 216 metres grading 0.231 g/t gold and 606 ppm copper including 45 metres from 127 metres to 172 metres grading 0.298 g/t gold and 852 ppm copper.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

- 1111, 1112, 10643, 11258, 11259, 12392, 12393, 14449, 15996, 16597, 17216, 17547, 17808, 17873, 18850, 18883, 19115, 19220, 19853, 20083, 20102, 20311, 20434, 20768, 21002, 21430, 21470, 21473, 22009, 22022, 22135, 23350, 23838, 23914, 24542, 24751, 24998, 27575, 28025, 31780, 32163, 32173, 32908

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area):			
Ground, mapping:			
Air photo interpretation:			
Satellite imagery analyses:			
GEOPHYSICAL (line-km):			
Ground:			
Magnetic:			
Electromagnetic:			
Induced Polarization:			
Radiometric:			
Seismic:			
Other:			
Airborne:			
GEOCHEMICAL:			
(number of samples analyzed for ...)			
Soil:			
Silt:			
Rock (core): 355 multi-element (ICP-MS)		550248 550254 553522	10,483.50
DRILLING:			
(total metres; number of holes, size)			424,017.78
Core: 5 holes		550248 550254 553522	
C-11-01, C11-02, C11-03, C12-01, C12-02			
1,275.59 metres of NQ2			
Non-core:			
RELATED TECHNICAL:			
Sampling/assaying:			438.45
Petrographic:			5,564.00
Mineralographic:			
Technical report (pro-rated cost):			8,000
PROSPECTING (scale, area):			
PREPARATORY/PHYSICAL:			
Line/grid (kilometres):			
Topographic/Photogrammetric:			
(scale, area)			
Legal surveys (scale, area):			
Road, local access (kilometres)/trail:			
Trench (metres):			
		TOTAL COST:	**$448,503.73**

BC Geological Survey
Assessment Report
33398

DIAMOND DRILLING ASSESSMENT REPORT on the CAPTAIN PROPERTY

Cariboo and Omineca Mining Divisions, British Columbia

CLAIMS WORKED ON

550248, 550254, 553522

LOCATION

NTS 93J/13
Latitude: 54°50' N
Longitude: 123° 55'W
NAD 83 Zone 10
6,076,600N/441,100E

OWNER-OPERATOR
Orestone Mining Corp
750 – 625 Howe Street
Vancouver, B.C., V6C 2T6

PREPARED BY

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V3V 2R5
November 6, 2012

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1.0 INTRODUCTION

Orestone Mining Corp. ("ORS" or "Orestone") holds contiguous mineral tenures referred to as the Captain Property (CP). The Captain Property, within the Cariboo and Omineca Mining Divisions, covers about 41,000 hectares of prospective Quesnel Terrane. The property is centered about 65 kilometers northeast of Fort St. James in the Nechako Plateau area of north-central British Columbia. The property covers several areas of copper-gold +/- molybdenum mineralization located in outcrop, float and historic drill holes and a number of large, untested or partially-tested IP chargeability anomalies which may represent the pyritic fringe to an overburden-covered or buried, copper-gold +/- molybdenum mineralized center in an alkalic porphyry setting. The drill program that is the basis of this report was completed between the dates November 16th, 2011 and January 23rd, 2012. 5 core holes were completed for a total of 1,275.59 m at a cost of $ 448,502.00.

2.0 PROPERTY CLAIMS

The Captain Property, consisting of about 41,000 hectares is situated in the Cariboo and Omineca Mining Divisions. It is centered near coordinates 54 57'N latitude and 123 50'W longitude in the 1: 50,000 map sheet NTS 093J13. All claims listed are 100% owned by Orestone Mining Corp.

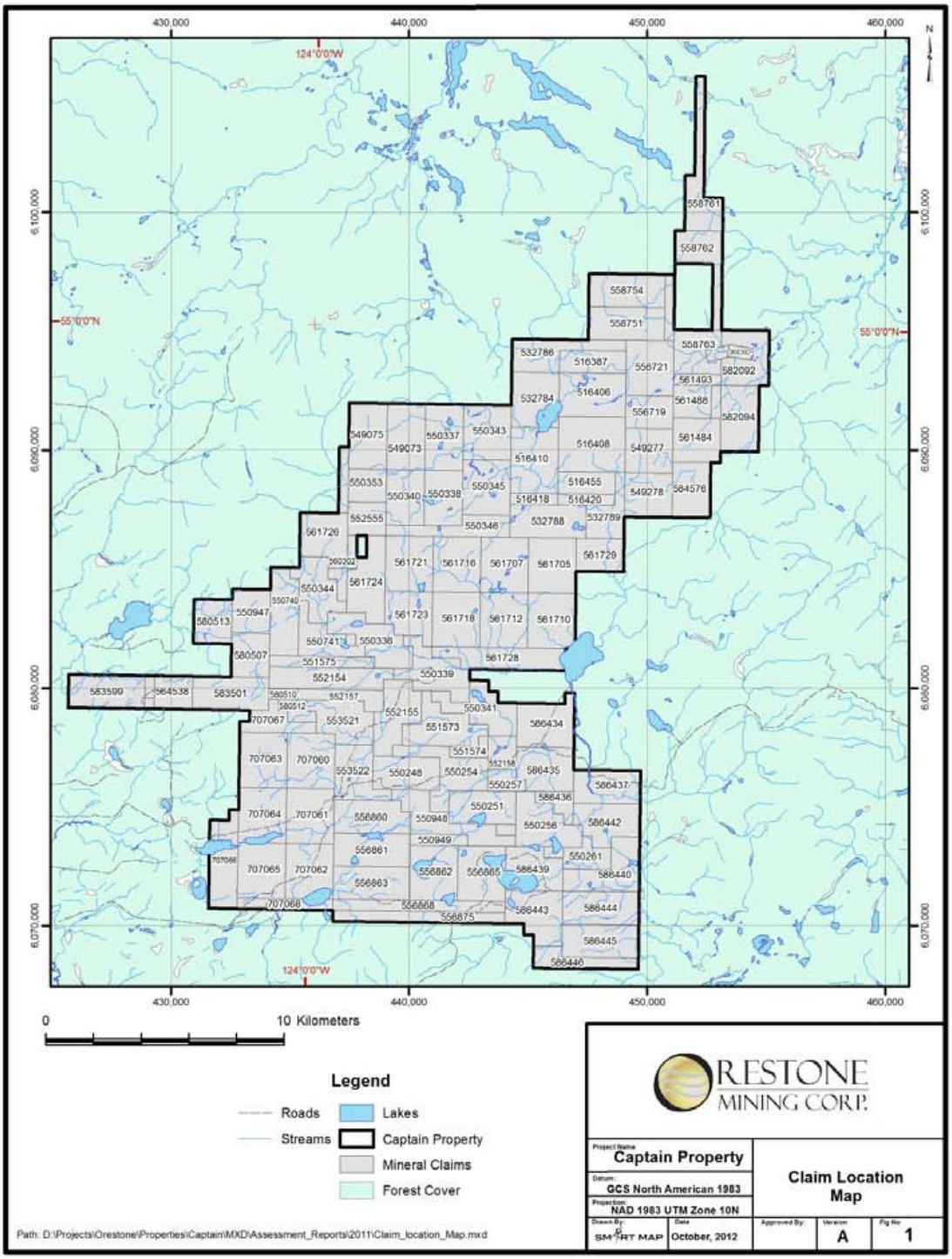
Expiry dates of all claims listed in Table 1 has been extended to August 15, 2015 by applying work described in this report (subject to Ministry approval).

Table 1. Captain Property Titles

Claim Name	Tenure #	Area (hectares)	Claim Name	Tenure #	Area (hectares)
	516387	259.8	Commodore 12	552158	167.6
	516406	519.8	Commodore 13	553521	409.7
	516408	650.1	Commodore 14	553522	409.9
	516410	557.3	Fathom	550336	465.2
	516418	92.9	Fathom 1	550339	465.3
	516420	111.5	Fathom 2	550341	428.2
	516455	223	Fathom 3	550344	390.6
Captain 19	532784	464.1	Fathom 4	550354	18.6
Captain 20	532786	408.3	Fathom 5	550740	427.9
Captain 21	532788	446.1	Fathom 6	550741	316.30
Captain 22	532789	278.8	Fathom 7	550947	297.6
Captain 23	549277	371.5	Fathom 8	551575	204.7
Captain 24	549278	371.6	Plus 1	556860	428.7
Captain 25	556721	464	Plus 2	556861	447.5
Captain 26	556719	278.5	Plus 3	556862	466.2
Captain 27	561488	222.8	Plus 4	556863	447.6
Captain 28	561484	371.4	Plus 5	556865	466.2
Captain 29	561493	92.8	Plus 6	556868	335.8

Captain 30	561495	55.7	Plus 7	556875	335.8
Admiral 1	549073	445.7	Salmon 1	558754	445.1
Admiral 2	549075	445.7	Salmon 2	558751	445.2
Admiral 3	550337	445.7	Salmon 3	558753	111.3
Admiral 4	550338	371.6	Salmon 4	558761	463.2
Admiral 5	550340	371.6	Salmon 5	558762	389.4
Admiral 6	550343	464.30	Salmon 6	558763	371.1
Admiral 7	550345	464.5	Lynx 1	564538	223.4
Admiral 8	550346	334.6	Lynx 2	564539	37.2
Admiral 9	550353	223	Lynx 2	583501	446.8
Admiral 10	552555	223	Lynx 3	564540	18.6
Heading 1	560302	93	Keel 1	580507	297.8
Heading 2	561726	371.8	Keel 2	580510	55.9
Heading 3	561727	111.5	Keel 3	580512	111.7
Bridge 1	561705	464.8	Keel 4	580513	297.7
Bridge 2	561707	464.8		583599	446.8
Bridge 3	561710	465.1	Northeaster 1	582092	463.9
Bridge 4	561712	465.1	Northeaster 2	582094	445.6
Bridge 5	561716	464.8	Northeaster 3	582110	445.1
Bridge 6	561718	465.1	Deck 1	584576	371.6
Bridge 7	561721	464.8	Anchor 1	586434	465.5
Bridge 8	561723	372	Anchor 2	586435	428.5
Bridge 9	561724	464.9	Anchor 3	586436	130.4
Bridge 10	561725	74.4	Anchor 4	586437	391.3
Bridge 11	561728	465.2	Anchor 5	586439	410.2
Bridge 12	561729	278.9	Anchor 6	586440	466.2
	550248	391.2	Anchor 7	586442	410
Commodore	550251	391.4	Anchor 8	586443	466.4
Commodore 1	550254	465.7	Anchor 9	586444	447.7
Commodore 2	550256	466	Anchor 10	586445	447.8
Commodore 3	550257	130.4	Anchor 11	586446	261.3
Commodore 4	550261	205.1	Tall Ship 1	707060	465.7
Commodore 5	550347	37.3	Tall Ship 2	707061	466
Commodore 6	550348	37.3	Tall Ship 3	707062	466.2
Commodore 7	551573	465.5	Tall Ship 4	707063	465.7
Commodore 7	550948	466	Tall Ship 5	707064	466
Commodore 8	551574	93.1	Tall Ship 6	707065	466.2
Commodore 8	550949	111.8	Tall Ship 7	707066	466.2
Commodore 9	552154	465.3	Tall Ship 8	707067	242.1
Commodore 10	552155	446.9	Tall Ship 9	707068	186.5
Commodore 11	552157	204.8		**Total**	**40,726.4**

Figure 1. Captain Claims Map.



3.0 LOCATION AND ACCESS

Access to the Captain Property is via 45 km along Highway 27 North from Fort St. James and then via the McLeod-Tsilcoh Forest Service Road. The Forest Service Road leads easterly over a distance of about 20 km to the area that was drilled. Driving time from Fort St. James is about 1¼ hours. Spur roads off the forest service roads lead into several areas of the property, portions of which have been clear-cut logged. BC Ministry of Forests maps show that alternate road access to the property exists from the town of Mackenzie via the Williston Lake causeway and a system of forest service and company logging roads. The writer reviewed road access to the property from both Fort St. James and Mackenzie. Although the driving time from both communities is about equal, the route from Fort St. James, which follows well-maintained highway and forest service roads, is the better of the two access routes into the property. Fort St. James provides a local source of labor and basic supplies and services necessary for exploration programs. The city of Prince George, a further two hours drive via paved Highways 27 and 16, provides geochemical laboratory services, drilling contractors and a larger supply center.

4.0 TOPOGRAPHY, VEGETATION & CLIMATE

The property is located in gently sloping plateau areas with rounded summits typical of the Nechako Plateau of north-central British Columbia. Topography consists of rolling low hills with elevations ranging from about 900 m to 1,100 m. The property lies in the headwaters area of the Salmon River which drains out from Windy Lake in the northern part of the property. The claims area is heavily forested with spruce, fir and pine. Tag alder occurs in some areas of up to several hectares. Small lakes, ponds and swampy areas are common in low-lying areas. The climate in the region is characterized by short, cool summers and relatively cold winters. Climate statistics (AMEC, 2006) from the nearby Mt. Milligan project indicate total annual precipitation to be 730 mm and the minimum and maximum monthly mean temperatures to be -15.2° C and 14.8° C in December and July respectively. Snow conditions persist from late October to the end of April, but with winter maintenance of the access road, exploration work can be conducted throughout the year.

Figure 2. General Location Plan Captain Property.

5.0 HISTORY

The following historical description is divided into prior work on various parts of the Captain Property.

5.1 Prior Ownership and Exploration Activity

Exploration activity on the Captain (CP) began in 1985 when prospector Richard Haslinger Sr. of Fort St. James discovered copper mineralization along the banks of the Salmon River in the northern part of the present CP. In 1987, prospector Gerry Klein located copper and molybdenum-bearing float in the northeastern part of the CP. These two discoveries, staked as the Windy and PM properties respectively, led to several major exploration programs being carried out in the CP area by Placer Dome Inc., Noranda Exploration and others during the period 1985-96. Past exploration expenditures on the CP total about C$1,400,000. Exploration work carried out by previous operators on the Windy and PM portion of the CP is summarized as follows:

<u>Windy Property:</u>

- 1985: Brinco Limited completed a soil geochemical survey over an area trenched by Richard Haslinger immediately north of the Salmon River. Brinco concluded that alteration, rock types and mineralization are compatible with a porphyry style of mineralization.
- 1986-90: Placer Dome Inc. optioned the Windy property in August 1986 and expanded their land holdings by staking additional legacy claims to the north and northeast. Work completed by Placer in 1986-90 included: soil geochemical, ground magnetometer, VLF-EM and IP surveys; the excavation of 11 trenches totaling 686 m; and the drilling of 15 NQ core holes totaling 2,180 m.
- In In 1990 Placer ptioned claims immediately to the west of Windy from Tex Gold Resources Ltd. and carried out a program of soil geochemical, ground magnetometer and VLF-EM surveys.
- 1991: Big Bar Gold Corp. farmed into Placer's option on the Windy property and funded a drilling program consisting of 24 percussion holes (total meterage unknown).
- 1996: Columbia Gold Mines Ltd. optioned the Windy property and drilled 8 NQ core holes totaling 547 m.
- 2003: The Windy property lapsed in July and was re-staked as the Captain claims in November by Brian Bowen and Gordon Richards.
- 2004-06: Bowen and Richards carried out modest assessment work programs consisting of MMI geochemical sampling and prospecting on the Captain claims.
- 2007: Bowen and Richards staked a large block of MTO cell claims east, west and south of the original claims. The claims to the east cover the old Alpha and PM properties. Those to the west and south were staked to cover

various geochemical and geophysical targets underlain by favourable Quesnel Terrane geology. The latter, along with the CP, comprised the 27,000 ha. QTSP. All claims were subsequently acquired by ORS through a Property Purchase Agreement between ORS (the Purchaser) and Ruanco Enterprises Ltd., Gordon Richards and Brian Bowen (collectively, the Vendors) dated April 30, 2007.

PM Property:

- 1988: Noranda Exploration optioned Mr. Klein's PM property in (what is now) the northeast part of the CP and completed a small soil geochemical survey in the area of mineralized float.
- 1989-91: Noranda flew an airborne EM-magnetic survey over the property and also completed soil geochemical, ground magnetic and IP surveys and geological mapping.
- 1996: Guinet Management optioned the PM property, completed soil geochemistry and prospecting surveys on it and then drilled 27 percussion holes totaling 1,149 m.

Alpha Property:

- 1987: The Alpha claims, located between and contiguous with the Windy and PM properties, were staked in March by Mr. E.S. Peters of Vancouver, B.C. In October, a program of prospecting and soil, silt and rock geochemical sampling was completed under the supervision of John Poloni, P. Eng.
- 1989-91: Noranda optioned the Alpha claims and completed soil geochemical, ground magnetic and IP surveys.
- 1994: The Alpha claims lapsed and were re-staked in part by Hudson Bay Exploration & Development Co. Ltd. and in part by Talisman Silver Corporation. The former conducted prospecting traverses and collected a few rock samples for analyses. The latter completed a program of geological mapping in areas of copper +/- gold soil anomalies identified by Noranda.

5.2 Other Past Exploration Activity

Other Captain claims to the west and south of the original claims include the Admiral-Heading, Bridge and Commodore-Fathom-Plus Claims. During the period 1981-91, Noranda Exploration, Selco Inc., two junior mining companies and one individual carried out a variety of exploration programs in these property areas. A brief summary of the types of work, results and associated costs are presented below.

Admiral-Heading claims in west portion of the Property:

Work done on the Admiral-Heading claims by Placer Dome Inc. (1990) and Anthian Resource Corp. (1990) includes airborne and ground magnetometer surveys, a ground VLF survey, grid soil geochemistry, prospecting and geological mapping. Cost of the work totaled approximately C$100,000. Soil geochemistry outlined a copper anomaly, measuring about 1 km long by 200-300 m wide, with some

associated gold values, in the western part of the Admiral-Heading claims area. The anomaly is coincident with a magnetic high anomaly identified in both airborne and ground surveys. Prospecting and geological mapping identified some pyrite and traces of chalcopyrite in the anomalous area which has limited bedrock exposure.

Bridge claims in the central portion of the Property:
Companies or individuals who carried out work in the Bridge claims area include Selco Inc. (1981-82), Mr. E.S. Peters (1987), Noranda Exploration (1989-91) and Taseko Mines Ltd. (1990). Work done includes ground magnetometer and EM surveys, silt sampling, prospecting, grid soil geochemistry, an induced polarization survey and the drilling of one diamond drill hole to test a ground EM conductor. Past expenditures total about C$90,000. Ground magnetometer surveys outlined a magnetic high in an area of heavy drift cover south of the Salmon River. Readings from a small induced polarization survey over the magnetic high were considered unreliable. Some silt samples taken from streams draining this general area returned anomalous gold values to 550 ppb. Soil geochemical surveys did not identify any significant copper-gold anomalies, although it was noted in the reports that the effectiveness of conventional soil sampling in areas of heavy drift cover is limited. Prospecting did not locate any mineralized showings; this work was hampered by heavy drift cover which covers a good portion of the Bridge claims area. EM surveys identified a number of conductors, one of which was tested by a single drill hole, 89 m in length. In the drill hole, which cuts a sequence of intercalated black shale and limy wacke, “geochemical values do not rise significantly above background” (AR 11258).

Commodore-Fathom-Plus claims in the southern portion of the Property
Noranda Exploration carried out several work programs on the previously located Tsil property in the western part of the Commodore-Fathom-Plus claims area during the period 1986 and 1988-91. The work, which cost about C$120,000, included an airborne magnetic/resistivity survey, ground magnetometer and induced polarization surveys, grid soil geochemistry, silt sampling, prospecting, geological mapping and the drilling of five reported diamond drill holes in two separate grid areas to test IP chargeability anomalies with anomalous Cu-Au soil support. The airborne survey identified a number of magnetic highs which have been confirmed by ground magnetic surveys and may be associated with possible buried, mineralized alkalic stocks. In one magnetic high area, soil geochemistry outlined a copper anomaly measuring about 700 x 500 m with values in the 100-200 ppm range, coincident with an IP chargeability anomaly. Anomalous gold-in-soil values occur in several grid locations, but in general sampling produced scattered and erratic gold results. This may reflect the variable depth and character of overburden in the area. Prospecting and geological mapping identified relatively weak propylitic alteration with pyrite, traces of chalcopyrite and weak copper-gold rock geochemical values near the northeast flank of an IP chargeability anomaly in another part of the property.

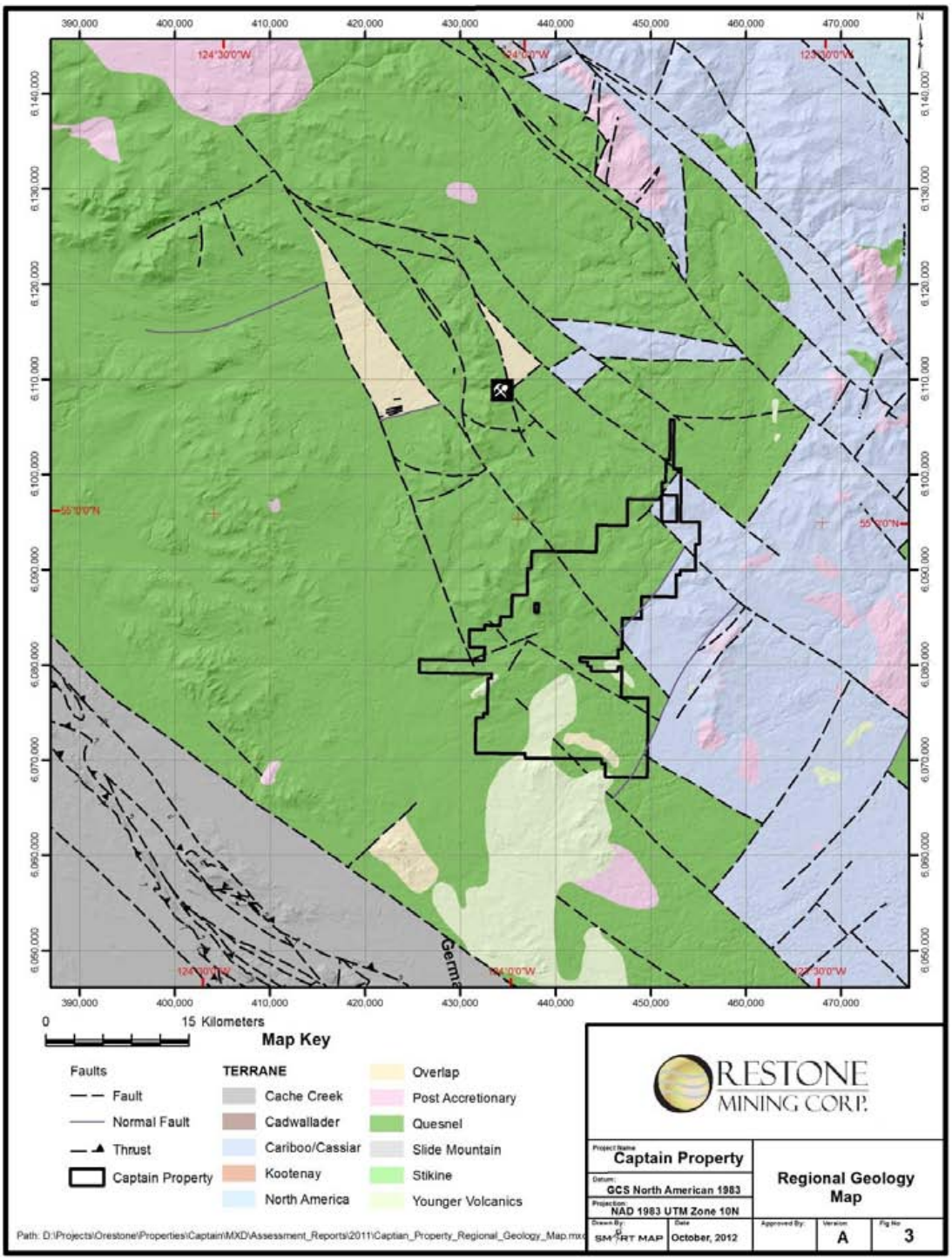
Five diamond drill holes tested two areas of anomalous IP chargeability response on the Tsil property; no results are available in assessment reports. Gord Maxwell, the geologist who supervised Noranda's past work at Tsil, informed Mr. Bowen (personal communication, 2007) that "although the drill holes encountered variably pyritized rock, no significant copper or gold values were obtained".

6.0 GEOLOGICAL SETTING

The property lies within Quesnel Terrane, part of the Intermontane Belt. The latter is comprised of low metamorphic grade magmatic arc segments consisting of mixed oceanic and continental affinities, and oceanic plates, which amalgamated with North America in Early Jurassic Period. Quesnel Terrane is characterized by a Late Triassic to Early Jurassic magmatic arc complex that formed along or near the western North American continental margin. Takla Group volcanic and sedimentary rocks comprise the majority of Quesnel Terrane in the map area. Comagmatic intrusions of similar age cut the volcano-sedimentary rocks. The geological setting represented by these lithologies is known to host many alkaline copper-gold porphyry deposits in British Columbia. Quesnel Terrane is in contact to the east with Proterozoic and Paleozoic carbonates and siliciclastics of Cassiar Terrane, representing part of the ancestral North American miogeocline. In places the Quesnel and Cassiar terranes are separated by an intervening assemblage of Late Paleozoic oceanic rocks assigned to Slide Mountain Terrane. The boundary between the Quesnel and Cassiar terranes is a complex structural zone that includes Early Jurassic, east-directed thrust faults that juxtapose Quesnel Terrane above Cassiar Terrane. These east-directed faults and related folds are locally overprinted by somewhat younger west-directed structures that reverse this stacking order, as well as by dextral strike-slip and normal faults that formed in Cretaceous and early Tertiary time (Schiarizza, 2005).

To the west Quesnel Terrane is in fault contact with Late Paleozoic through mid-Mesozoic oceanic rocks of the Cache Creek Terrane, interpreted to be part of the accretion-subduction complex that was responsible for generating the Quesnel magmatic arc. Younger rocks commonly found in the region include Cretaceous granitic stocks and batholiths, Upper Cretaceous to Eocene Wolverine Metamorphic Complex rocks, Eocene volcanic and sedimentary rocks, and flat-lying basalt of both Neogene and Quaternary age.

Figure 3. Regional Geological Map, Captain Property.



7.0 EXPLORATION CONCEPT

To date, no mineral resources have been defined on the property. There are, however, widespread copper, gold and lesser molybdenum occurrences in float, outcrop and historic drill holes indicative of two possible styles of mineralization:
1. a porphyry or bulk mineable-type similar to those present on the nearby Mt. Milligan property.
2. a structurally-controlled style of mineralization resulting in a deposit morphology which is more planar and elongate then the porphyry-type.

The Mt. Milligan deposits are alkalic copper-gold porphyry deposits that are associated with alkaline igneous rocks. They commonly consist of stockworks, veinlets and disseminations of pyrite, chalcopyrite, bornite and magnetite that occur in large zones of economically bulk-mineable mineralization in or adjoining porphyritic intrusions of diorite to syenite composition. In selecting priority drill targets for a porphyry-type deposit, it is best to utilize geophysical methods such as induced polarization (IP) and magnetics, supported by multi-element soil geochemical data. IP can be used to outline large volumes of iron sulphide-bearing rock associated with base and precious metals mineralized centers. Magnetics can identify concentrations of magnetite commonly associated with alkaline stocks and zones of potassically-altered, copper, gold and molybdenum-bearing rock. Multi-element soil geochemical surveys have been successful in locating near surface mineralization. For structurally-controlled deposits, the VLFEM geophysical method can aid in the interpretation of a mineralized structure's planar orientation.

8.0 WORK CONDUCTED BY ORESTONE 2007 to 2011

During the months of June and July, 2007, ORS completed programs of Mobile Metal Ion ("MMI") soil geochemical, induced polarization (IP) and ground magnetic surveys on the Windy and PM portions of the property and an MMI survey on the Commodore portion of the property. Cost of the work totaled C$150,844.86. The IP survey filled in areas between previous IP surveys by Placer and Noranda to form complete chargeability and resistivity patterns for this area. These patterns formed the basis for diamond drilling of six holes during Feb to April 2008. During 2008 ORS conducted additional IP surveys on lines located across magnetic highs identified from government airborne surveys. These lines were located southwest of the Windy portion of the property with many of them in the southern Commodore portion of the property.

In June to August, 2009 ORS conducted a percussion drill program where twenty-seven holes were drilled to a maximum depth of 123 feet with 19 holes penetrating bedrock. The 8 holes that failed to penetrate bedrock were stopped at depths of 20 to 110 feet. Holes were positioned to test a variety of targets based on previous IP, Mag and MMI surveys throughout the Captain Property. Total expenditures for the program were $ 184,221.77.

In July through December of 2010 ORS completed additional exploration consisting of induced polarization and ground magnetic surveys, Ah geochemical soil sampling and splitting of core not previously sampled from drill hole DH-09-05, which was drilled in December of 2009. Expenditures for this program totaled $ 32,622.53

In May through August of 2011 ORS completed 34 additional line kilometers of induced polarization, resistivity and ground magnetic surveys in the area of the core hole DH-09-05. Total expenditures for this program were $ 194,837.82.

9.0 ORESTONE 2011 – 2012 DIAMOND DRILLING PROGRAM

The objective of the drill program was to further test the property potential for porphyry copper – gold mineralization. The targets of the drilling were defined based on the success of one previous drill hole, namely DH-09-05. This vertical drill hole reached a depth of 137 meters with the last 3.1 meters encountering mineralized breccia grading 0.21 per cent copper and 0.35 grams per tonne (g/t) gold. Target definition was further aided by induced polarization and magnetic surveys that were completed after DH-09-05 was drilled.

Within the geophysical survey area results show three separate IP chargeability anomalies that flank magnetic high anomalies. The IP anomalies have widths of 1,000 meters or more that remain open, thus have yet to be fully outlined. The principal IP chargeability anomaly in the central portion of the survey area currently measures 1,000 meters by more than 4,000 meters and corresponds with a resistivity high. This coincident chargeability and resistivity high area is located on the western flank of a magnetic high interpreted to be a magnetite-bearing intrusive measuring 1,000 to 2,000 meters wide and in excess of five kilometers in strike length. This geophysical signature covering the central IP/resistivity high target on the Captain project is similar in nature to the geophysical signature of the MBX copper-gold deposit at Mt. Milligan.

The drill program that resulted in the expenditures for this report was completed between the dates November 16th, 2011 and January 23rd, 2012. The drilling was done within the southern portion of the Captain claim block within the 1: 50,000 map sheet NTS 093J13. 5 core holes were completed for a total of 1,275.59 m. The coordinates of the drill holes are tabled below with their location shown in Figure 4. Drill hole C12-01 was abandoned at 125.88 m due to poor drilling conditions related to fault gouge and C12-02 was collared from the same drill pad. C12-02 successfully passed through the fault zone encountered in C12-01. All of the holes pass through approximately 50 m of overburden before encountering bedrock.

Table 2. Drill Hole Coordinates and Orientation.

Hole ID	Easting NAD 83 Z10	Northing NAD 83 Z10	Elevation (masl)	Dip	Azimuth	Length (metres)
C11-01	441296	6076282	912	-90	000	255.42
C11-02	440591	6076056	913	-90	000	185.32
C11-03	437922	6076018	964	-90	000	209.70
C12-01	440953	6076223	912	-90	000	125.88
C12-02	440953	6076223	912	-90	000	499.27
					Total	1,275.59

Note: Coordinates were obtained using a hand-held GPS and some margin of error may exist.

A summary of the drill holes is as follows with locations shown in figure 4.

C11-01

The objective of C11-01 was to test the depths below the previously completed DH09-05 and was collared a few meters from the original hole. The lithology is predominantly felsic volcanic with occasional monzonitite porphyry dykes. The degree of alteration often makes identification of the protolith difficult. This moderate to strong alteration is represented by chlorite, clay, sericite and potassium feldspar and is classified as argillic to potassic.
The hole C11-01 intersected the propylitic alteration in the first 100 m and below that depth the end of the hole at 255.3 metres the alteration is more potassic, which contained 5-15 % pyrite and trace to minor chalcopyrite from 127 metres to 216 metres. Assays for this hole indicate an intercept of 89 metres from 127 metres to 216 metres grading 0.231 g/t gold and 606 ppm copper including 45 metres from 127 metres to 172 metres grading 0.298 g/t gold and 852 ppm copper.

A suite of representative core samples from drill hole C11-01 were selected from the copper-gold mineralized interval in the lower portion of the hole from 140 to 256 metres for petrographic analysis. The petrographics shows an alteration assemblage consisting of very fine grained ankerite-potassium felpspar with minor kaolin-sericite with abundant magnetite/hematite overprinted in part by coarse grained potassium feldspar. Fine grained chalcopyrite is disseminated throughout associated with magnetite and pyrite.

C11-02

Hole DDH2011-02 was located 700 metres west of hole 11-01 at the eastern edge of a magnetic high, which is believed to be related to an intrusive center. The drill hole cut a medium to coarse grained monzonite intrusion with minor pyrite and chlorite alteration from 46.63 metres to 165.0 metres. From 165 metres to the end of the hole at 185.32 metres, the monzonite is strongly potassic-sericite-chlorite-carbonate altered with 5-10% sulfides, including disseminated pyrite and fine chalcopyrite that appears to increase in abundance towards the bottom of the hole. The increasing alteration and sulfide content, combined with the geophysical

signature in the area, is suggestive of a mineralized porphyry system strengthening to the east in the direction of hole C11-01. Analytical results show anomalous values of copper up to 400 ppm and gold up to 100 ppb.

C11-03

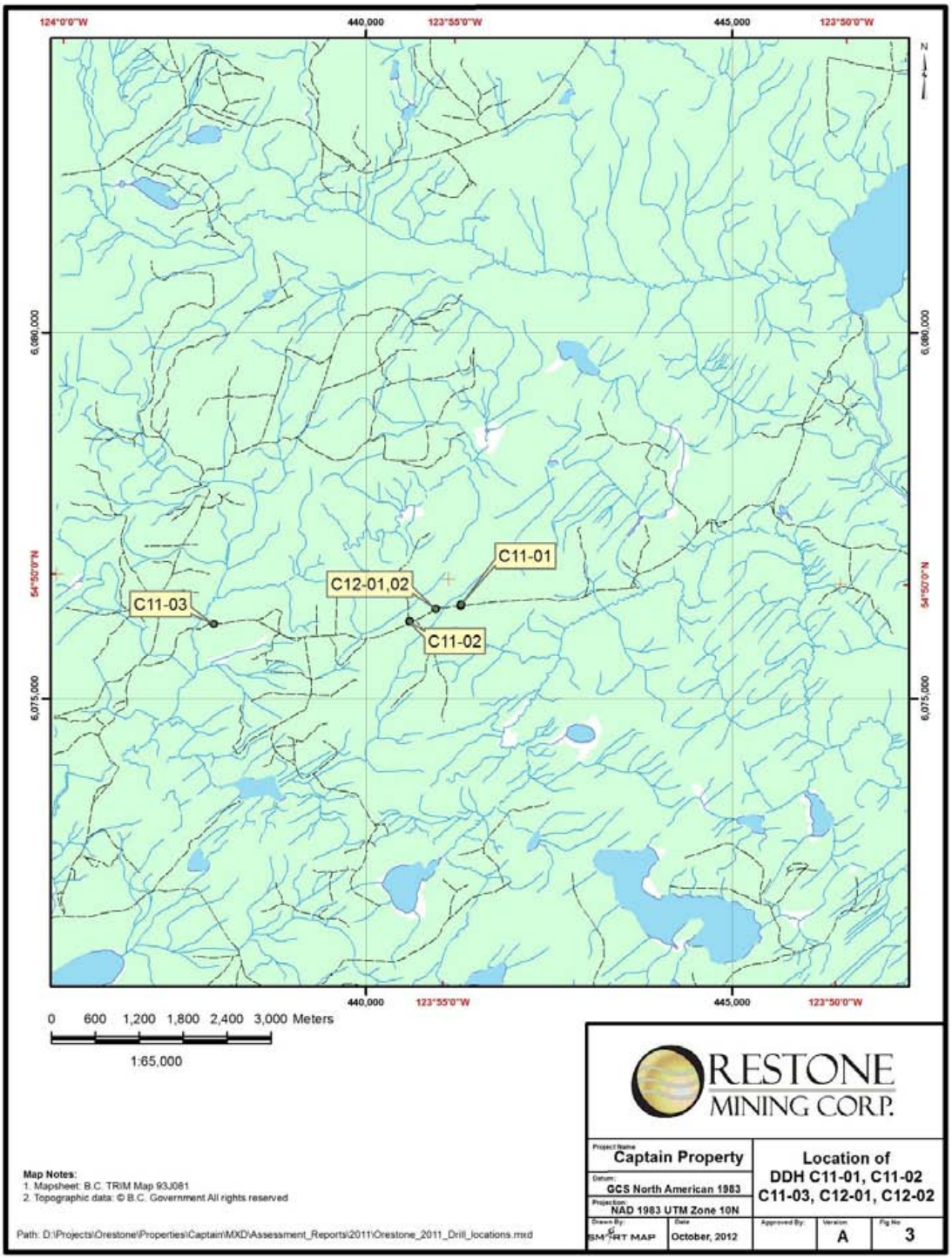
Hole DDH2011-03 was drilled approximately 3.25 kilometers west of hole C11-01 on the western side of the main interpreted intrusive body and is located within an induced polarization anomaly. This drill hole encountered primarily propylitically-altered volcanic rocks; however, the bottom of the hole intersected two porphyry dykes and three breccia zones totaling 25 metres with pervasive weak chlorite-sericite alteration, 5-10% pyrite and trace to 0.5% very fine chalcopyrite. This type of alteration and mineralization is consistent with a halo peripheral to a porphyry system. Limited sampling of this hole did not show significant copper or gold values.

C12-01 & C12-02

The two drill holes were collared from the same pad, with C12-02 being a re-drill after C12-01 was abandoned at 125.88 meters due to drilling conditions. Drill hole Hole C12-01 was drilled to test a large IP target on the eastern flank of a magnetic high, monzonite intrusive as a step out from hole C11-01. Hole C12-01 encountered strongly potassic-sericite-carbonate altered volcanics and monzonite intrusive dykes from beneath overburden at 60 metres to a 500 metre depth with 10-20% disseminated sulphides; copper and gold values however were low in this hole ranging from trace to 0.30 g/t gold and up to 0.03% copper indicating that this hole is possibly located in the outer phyillic-pyritic halo of a porphyry system.

A suite of representative core samples from these holes were selected and submitted for microscopic petrographic analysis. The petrographic analysis show a pervasive alteration assemblage of sericite - pyrite - quartz - carbonate over approximately 250 meters from 100 meters to 350 meters down hole. This is currently interpreted to represent the phyllic halo in the outer phyllic shell around the margin of a porphyry system.

Figure 4. Southwest Captain Drill Hole Location Map.



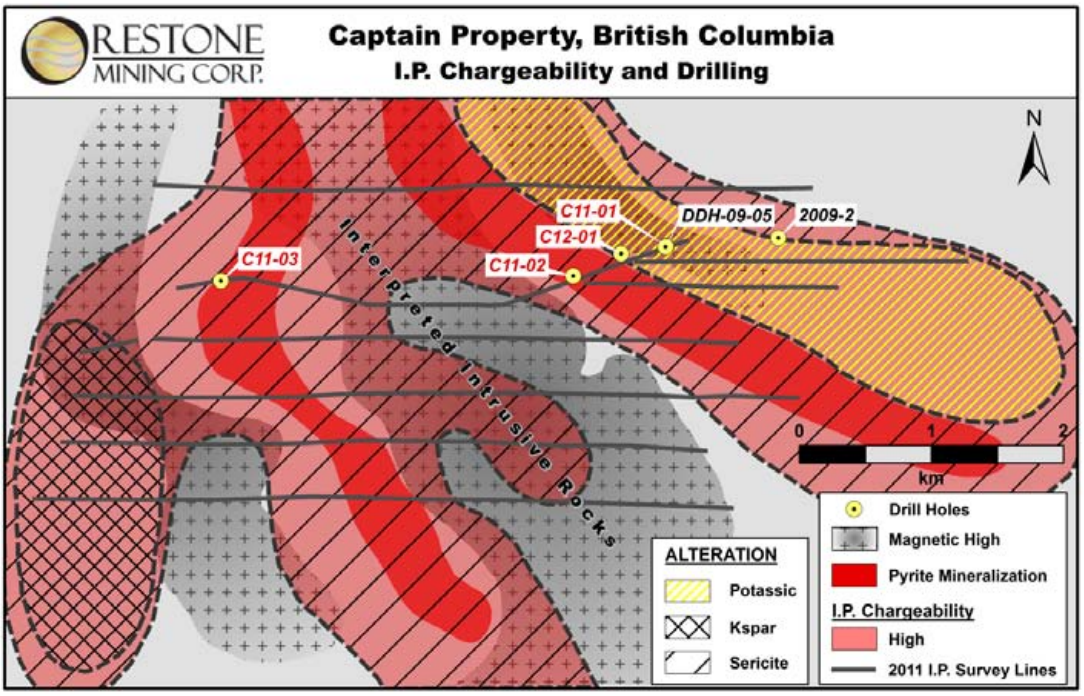
9.1 INTERPRETATION OF RESULTS

Because of the blind nature of the targets in this area of the Captain property the drilling is largely based on an exploration model guided by geophysics with a limited amount of drilling. The mineralization model is similar to that at the well defined Mt. Milligan deposit that is located some 50 km to the north. There the mineralization is typically hosted in volcanic country rock, peripheral to monzonite stocks and intrusions. The monzonite intrusives commonly contain magnetite and result in magnetic highs.

Previous geophysical programs along with regional aeromagnetic surveys have shown numerous discreet magnetic highs in this portion of the Captain property and the drill hole DH-09-05 demonstrates porphyry style mineralization and copper/gold grades similar to those found at Mt. Milligan. During this drill campaign hole C11-01 confirmed thist potassic alteration and copper/gold mineralization are present in the target area. The initial interpretation of potential for better grades to the west C11-01 near the contact with the monzonite intrusion responsible for the central magnetic high was not supported by drill holes C11-02 and C12-01/02. Based on additional information provided by this drill program a more refined interpretation is that the magnetic high located at the eastern extreme of the area covered by surface geophysics may be more important with respect to mineralization. There may be greater potential for economic copper/gold grades within this large altered system to the east of the current drilling, specifically C11-01.

The western edge of the central magnetic high was tested by only one drill hole, C11-03. While the hole encountered mainly propylitic alteration with no significant copper or gold results there remains many valid drill targets in the area. These targets would be the areas to the north and south where the induced polarization high flanks the magnetic high.

Figure 5. Drill Hole Location with Geophysical Interpretation



9.2 QA/QC FOR THE DRILLING PROGRAM

Drilling services for the program were contracted to Radius Drilling of Prince George. Of the 1,275.59 m drilled 1126.64 meters were NQ2 and 145.95 m HQ. Drilling was continuous with 2 crews working a daily 12 hour shift. Down hole surveys utilized a Reflex® survey tool. Core was transported from the drill site to Fort St. James by the drill crew and delivered to ORS personnel and subsequently delivered to the secure core facility. The core facility is located at the ranch of John Helweg, 5899 Necoslie Road, approximately 6 km east of Fort St. James. The core is stored at this location with approximate UTM coordinates of 422705 E 6028590 N, NAD 83 Zone 10U.

The core was photographed and geologically logged with recoveries estimated. Logging of the core was done by Brian Bowen P. Eng. & Ross Zawada P. Geo with supervision provided by Gary Nordin P. Geo. And logs are included in Appendix I. Recovery was consistently high, above 90%. Sample intervals were typically

marked every 2 m unless it was deemed geologically relevant to truncate an interval. All the core sampled was cut with a rock saw with ½ of the core providing the sample and ½ retained for future use. Samples were collected in conventional plastic sample bags with a sample ID tag inserted before being sealed with a plastic zip-tie. Once secured for transport the samples were delivered to Russell Transfer in Fort St. James who transported them via Bandstra Transport to the Acme Analytical Labs sample preparation facility in Smithers, BC. Core samples were prepared using Acme's R200-250 procedure where the core is crushed, split and a 250 g sample pulverized to -200 mesh. Samples were analyzed by Acme in Vancouver using Acme's 1DX method where a 15 gram split of the prepared sample is digested in 1:1:1 Aqua Regia and analyzed by ICPMS. The certificates of results are in Appendix II.

For quality assurance purposes ORS included in the sampling procedure a protocol of inserting certified standards, blanks, and duplicate samples. The certified standards and blanks were purchased from CDN Resource Laboratories of Langley BC. The protocol established was to insert a standard, blank or duplicate every 15th sample. For the duplicate samples the ½ core interval destined for sampling was split again resulting in two samples representing ¼ of the core. Due to the inability to source a single certified standard for both copper and gold a separate standard for each element was inserted. The value for the gold standard (GS-P2A) is 229 ppb and the copper standard (CM-10) is 3,160 ppm. The certificates for the standards and blanks are included in Appendix II. Results are tabled below.

Table 3. Copper Standard Comparison of Results

Drill Hole	Sample #	Cu ppm
C11-01	32535	2936.0
C11-02	32627	3080.0
C12-01	32648	3017.5
C12-02	32708	3054.5
C12-02	32767	3062.5
C12-02	812377	2967.5

Table 4. Gold Standard Comparison of Results

Drill Hole	Sample #	Au ppb
C11-01	32550	257.1
C11-02	32633	226.8
C12-01	32663	226.7
C12-02	32723	246.2
C12-02	32782	238.0
C12-02	812392	234.5

Table 5. Blank Standard Comparison of Results

Drill Hole	Sample #	Cu ppm	Au ppb
C11-01	32580	23.5	1.3
C12-01	32678	24.1	<0.5
C12-02	32738	23.8	1.1
C12-02	32797	26.2	<0.5
C12-02	812407	26.4	0.8

Table 6. Duplicate Sampling Comparison of Results

Drill Hole	Sample #	Cu ppm	Au ppb
C11-01	32564	619.4	146.8
	32565	619.5	164.0
C12-02	32692	26.3	42.5
	32693	25.0	44.7
C12-02	812361	159.3	33.6
	812362	114.5	30.0

10.0 COST STATEMENT

Orestone Manpower

Ross Zawada, Orestone Exploration Manager	
Nov 16 - Dec 16 Jan 9 – 23; 46 days @ $ 650/day	$ 29,900
Brian Bowen, Consulting Geologist	
Nov 28 - Dec 16: 19 days @ $ 650/day	$ 12,350
Gary Nordin, Orestone Vice-President Exploration	
Dec 6 - 16, Jan 4 – 13: 21 days @ $ 750/day	$ 14,700
Howard Sam, Core Cutter	
Dec 5-9, 12-14, Jan 14-16, 17-22:17 days @ $ 250/day	$ 4,250
Sub-total	**$ 61,200**

Sustenance and Transportation

Air Travel (between Prince George and Vancouver)	$ 2,750.92
Truck Rental	$ 7,302.97
Fuel	$ 1,877.39
Taxi	$ 411.16
Hotel	$ 4,518.42
Meals & Grocery	$ 3,585.01
Sub-total	**$ 20,445.87**

Drilling Costs

Radius Drilling Invoices	$ 307,591.03
Water Truck (30.1 days days @ 800/day	$ 24,060
Sub-total	**$ 331,651.03**

Field Expenses

Core Shack Material and Rent	$4,053.54
Core saw fuel and propane for heater	$116.55
Rock Saw	$ 3706.72
FSR Radio Rental	$ 134.40
Sample bags	$131.43
Miscellaneous Supply	$ 1,638.81
Sub-total	**$ 9,781.45**

Sample Analysis

Acme Labs	$ 10,483.50
Bandstra Transport	$ 939.43
Canadian Resource Labs (Standards and Blanks)	$ 438.45
Vancouver Petrographics	$ 5,564.00
Sub-total	**$ 17,425.38**

Report

Writing and Preparation	$ 8,000
Sub-total	**$ 8,000**

Grand Total **$ 448,503.73**

11.0 CONCLUSIONS AND RECOMMENDATIONS.

The drill program described in this report was successful in confirming and expanding the potential developed from previous drilling, most notably the previous hole DH-09-05 which bottomed in 3.1 m grading 0.21% copper and 0.35 g/t at 137 meters depth. Drill hole C11-01 collared at the same location resulted in an intercept of 89 metres from 127 metres to 216 metres grading 0.231 g/t gold and 606 ppm copper including 45 metres from 127 metres to 172 metres grading 0.298 g/t gold and 852 ppm copper.

While the other holes show significant alteration related to the style of mineralization targeted at Captain they did not result in economic grades. They do however provide important additional geological information. The drill program also demonstrates the challenges present when exploring in an environment of a large alteration system with no surface exposure that results in the mineralized targets being blind.

It is recommended that the surface geophysics program be expanded to the east and west to better define anomalies that appear on both edges of the current survey area. More drilling is required to test the many targets generated by the geophysical programs and previous drilling. This additional drilling will allow refinement of the mineralization model which is crucial to vector into potential areas of mineralization where all of the targets are covered by a significant thickness of overburden.

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13.0 STATEMENT OF QUALIFICATIONS

I, Ross D. Zawada, DO HEREBY CERTIFY THAT:

1. I am a Consulting Geologist to Orestone Mining Corp.with the designated role as Exploration Manager.

2. I am a graduate of the University of Saskatchewan with a degree of Bachelor of Geological Sciences, completed in 1990. I have practiced my profession as a geologist in Canada and internationally continuously since completing my degree.

3. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia. Registration # 28803.

4. This report is based on my review and compilation of all available data relating to the Captain Property and personal knowledge gained during the drill program described in this report.

5. I am a shareholder of Orestone Mining Corp.

0 250 Kilometers

RESTONE MINING CORP.

Project Name: Captain Property	Location Map
Datum: GCS North American 1983	
Projection: NAD 1983 BC Environment Albers	

Drawn By:	Date	Approved By:	Version	Fig No
SMART MAP	October, 2012		A	2

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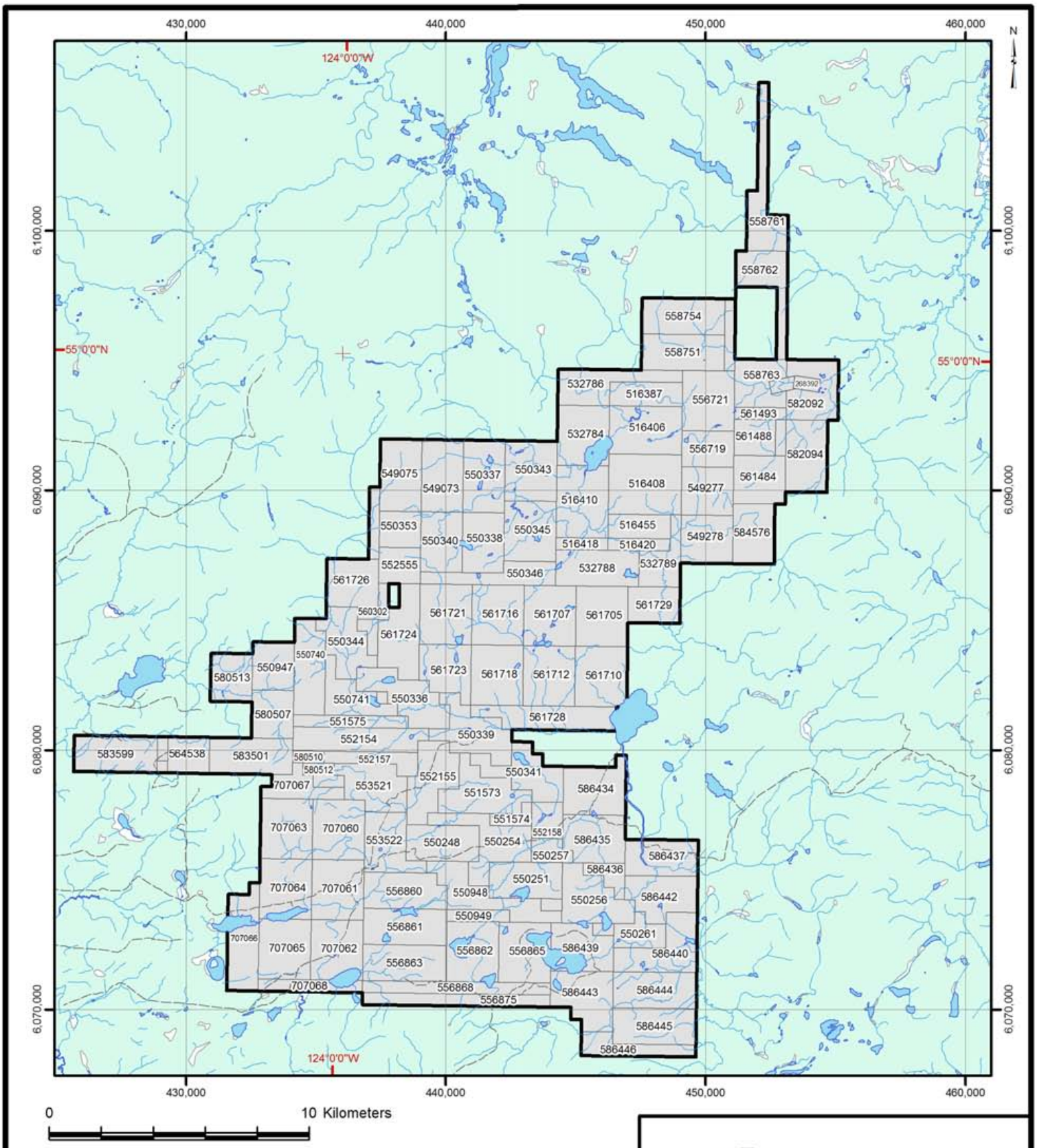

RESTONE MINING CORP.

Project Name: Captain Property	Claim Location Map
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Projection: NAD 1983 UTM Zone 10N	
Drawn By: SMART MAP	Date: October, 2012
Approved By:	Version: A
Fig No: 1	

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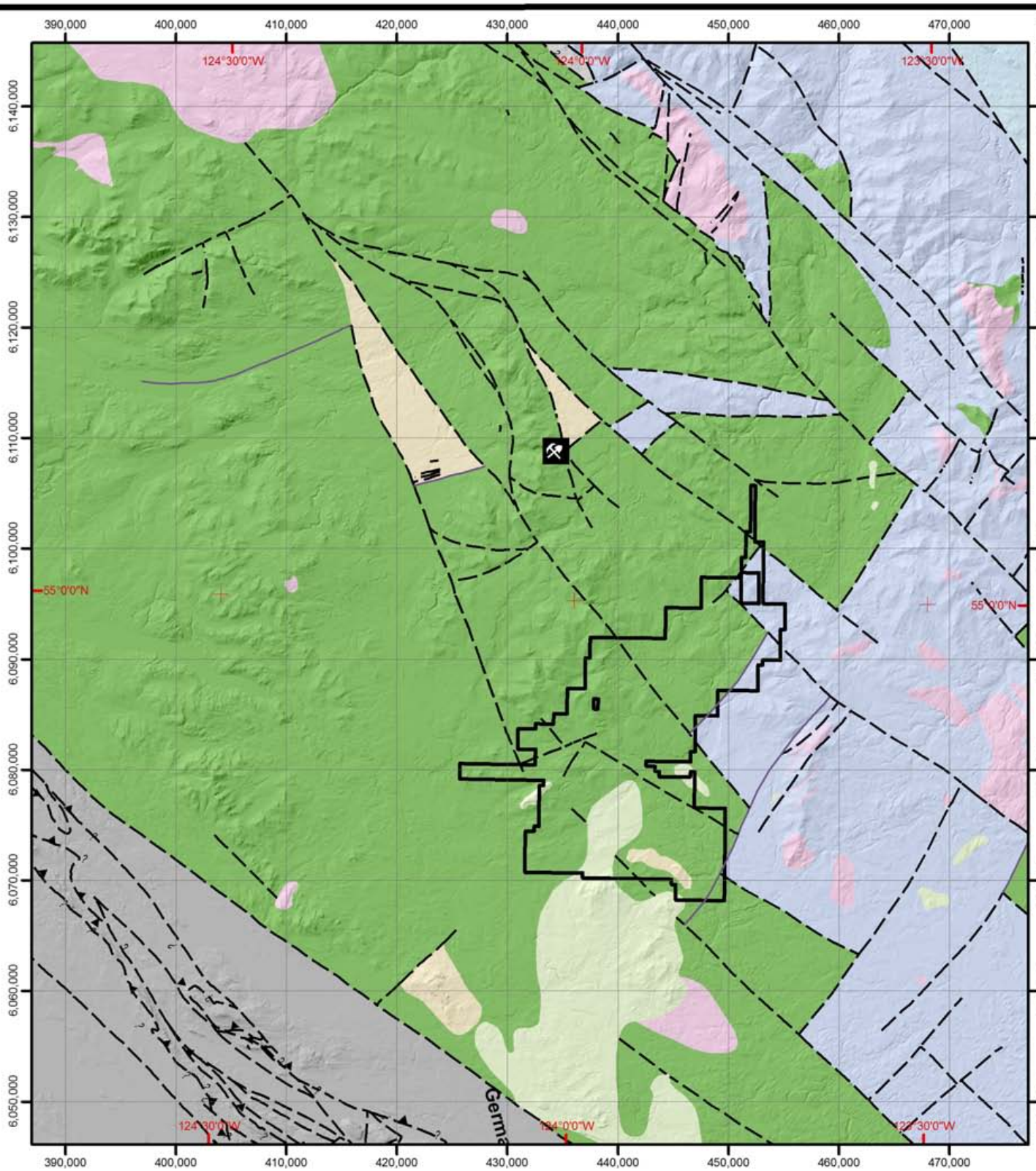

0 15 Kilometers

Map Key

Faults
- Fault
- Normal Fault
- Thrust
- Captain Property

TERRANE
- Cache Creek
- Cadwallader
- Cariboo/Cassiar
- Kootenay
- North America
- Overlap
- Post Accretionary
- Quesnel
- Slide Mountain
- Stikine
- Younger Volcanics

RESTONE MINING CORP.

Project Name: Captain Property	Regional Geology Map
Datum: GCS North American 1983	
Projection: NAD 1983 UTM Zone 10N	
Drawn By: SMART MAP	Date: October, 2012
Approved By:	Version: A
Fig No: 3	

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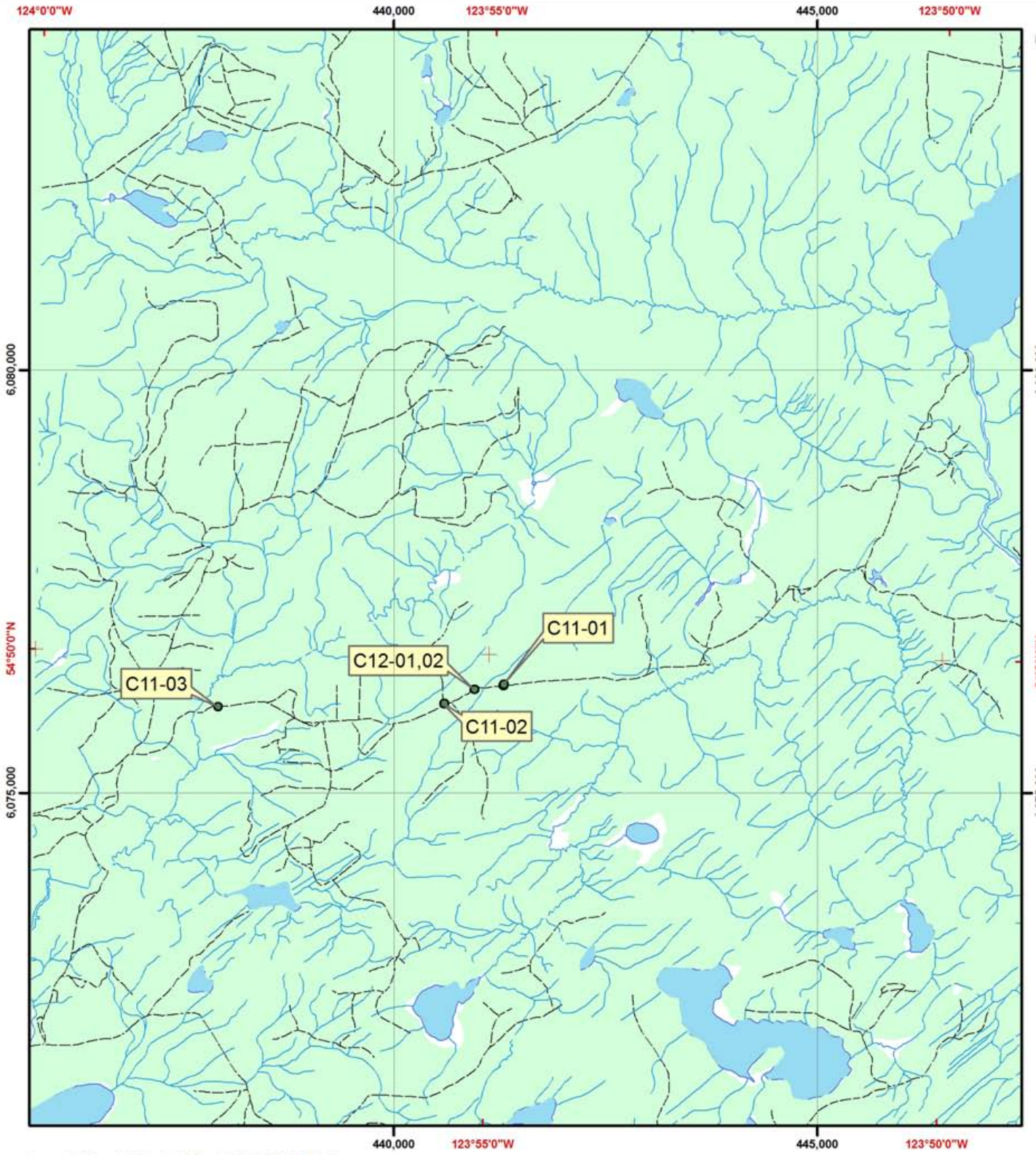

0 600 1,200 1,800 2,400 3,000 Meters

1:65,000

Map Notes:
1. Mapsheet: B.C. TRIM Map 93J081
2. Topographic data: © B.C. Government All rights reserved

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ORESTONE MINING CORP.

Project Name: Captain Property	Location of DDH C11-01, C11-02 C11-03, C12-01, C12-02
Datum: GCS North American 1983	
Projection: NAD 1983 UTM Zone 10N	

Drawn By:	Date	Approved By:	Version	Fig No
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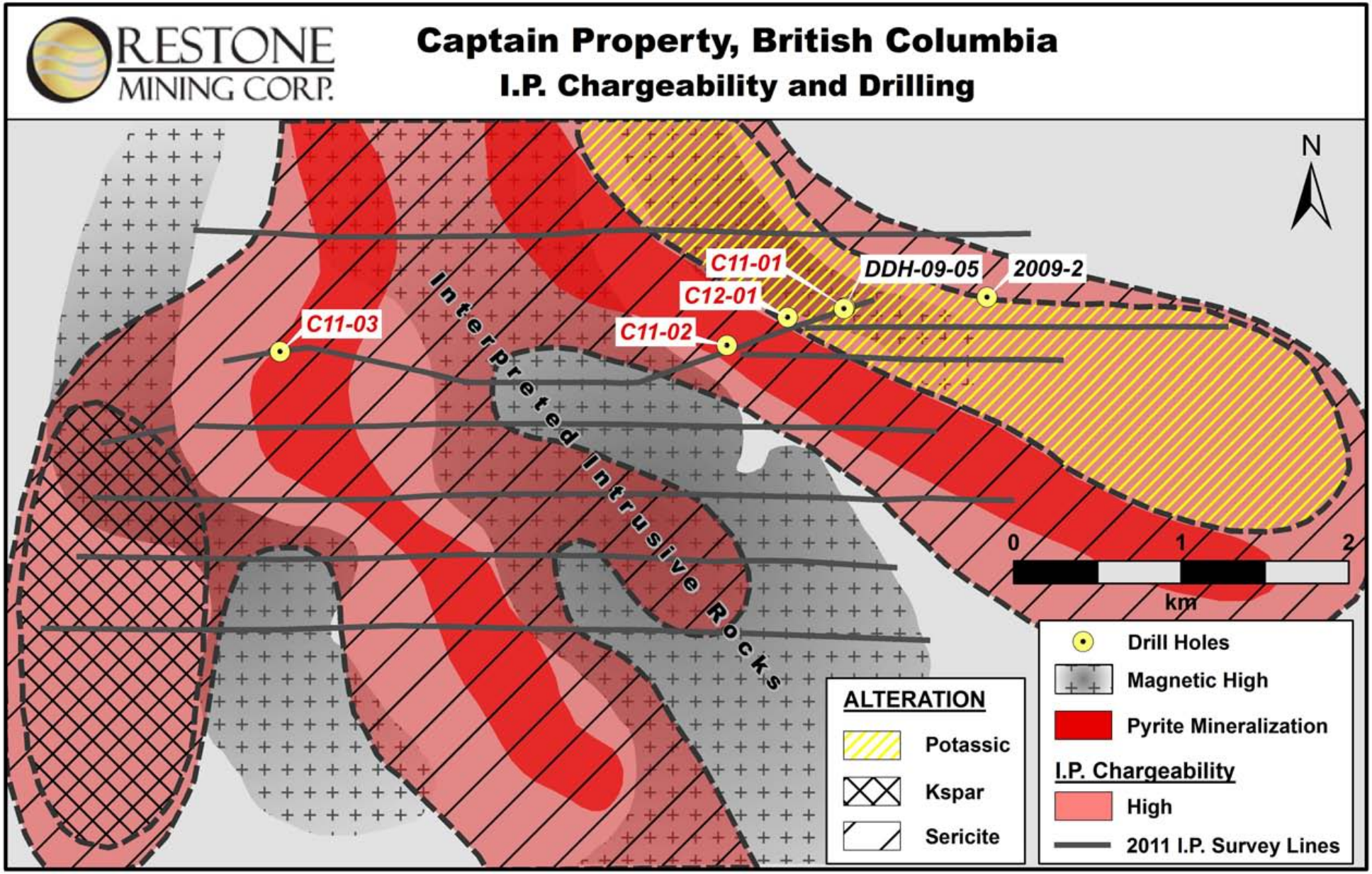
RESTONE MINING CORP.
Captain Property, British Columbia
I.P. Chargeability and Drilling
N
C11-01
DDH-09-05
2009-2
C12-01
C11-03
C11-02
Interpreted Intrusive Rocks
0
1
2
km
ALTERATION
Potassic
Kspar
Sericite
Drill Holes
Magnetic High
Pyrite Mineralization
I.P. Chargeability
High
2011 I.P. Survey Lines

Drill Hole Survey Information

C11-01	East	North	Elev (masl)	Dip	Azimuth	Length
	441296	6076282	912	-90.00	0	255.42

Down Hole Surveys

Depth m	Azimuth	Dip
65.16	317.80	-89.60
114.83	171.50	-89.90
250.85	288.00	-89.10

C11-02	East	North	Elev (masl)	Dip	Azimuth	Length
	440591	6076056	913	-90.00	0	185.32

Down Hole Surveys

Depth m	Azimuth	Dip
71.02	248.20	-89.20
180.75	260.40	-89.50

C11-03	East	North	Elev (masl)	Dip	Azimuth	Length
	437922	6076018	964	-90	0	209.70

Down Hole Surveys

Depth m	Azimuth	Dip
74.07	114.30	-89.80
205.13	37.00	-89.20

C12-01	East	North	Elev (masl)	Dip	Azimuth	Length
	440953	6076223	912	-90.00	0	125.88

Down Hole Surveys

none

C12-02	East	North	Elev (masl)	Dip	Azimuth	Length
	440953	6076223	912	-90.00	0	499.27

Down Hole Surveys

Depth m	Azimuth	Dip
127.41	252.10	89.40
249.33	319.20	89.60
371.25	298.40	89.70
493.17	288.10	89.40

UTM coordinate NAD 83 Zone 10

Logging Codes

Rock_Type	
OVBN	Overburden
DIOR	Dioritic rocks - undifferentiated
MONZ	Monzonitic rocks - undifferentiated
MZPD	Plagioclase monzonite porphyry
ANPD	Andesitic feldspar porphyry
DRPD	Plagioclase diorite porphyry
ANBX	Andesitic clastic flow breccia
BX	Breccia
PTUN	Protolith uncertain
FAZN	Fault Zone
FAUL	Fault

Colour	
Bf	Buf
Bk	Black
Bl	Blue
Br	Brown
Gn	Green
Gy	Grey
Or	Orange
Pk	Pink
Rd	Red
Wh	White
Yl	Yellow
Tn	Tan
Cr	Cream

Texture	
fg	Fine Grained
mg	Med Grained
cg	Coarse Grained
ms	Massive
bx	Brecciated
fs	fissile, foliated
fr	friable
gr	granular
lm	laminated
sh	sheared
sl	schlieric
po	Porphyritic
vu	vuggy
bd	bedded
gg	gouge
br	broken

Oxidation_State	
1	Oxide
2	Oxide/Sulphide Mix
3	Sulphide

Alteration	
Nil	Nil
Alu	Alunite
cly	Argillic
Cal	Calcareous
crb	Carbonate
Chl	Chlorite
ksp	Potassic (k-feldspar)
qtz	Quartz
ser	Sericite
alb	Na metasomatizm
sil	Silicification
trm	Tourmaline
bio	Potassic (biotite)
epd	Epidote
gyp	gypsum

Alter_Strength	
1	Weak
2	Moderate
3	Strong

Alter_Type	
AV	alter - vein
AP	alter - pervasive
AE	alter - envelope
AS	alter - selective (eg. clay after fspar phenos)
AM	alter - matrix (eg crb matrix in-filling of bx)

QSV_Sequence_Age	
A	First
B	Second
C	Third
D	Fourth
E	Fifth

QSV_Strength	
1	Weak
2	Mod
3	Strong

QSV_Sum Thicness mm	QSV_Avg_Thicness mm
thickness of qtz (mm) per 1 metre of core	

Mineral_Type	
D	Disseminated
V	Vein
SM	>20-50% total sulphides
M	>50% total sulphides
B or A	blebby or aggregate(s)
FF	fracture-fill

Mineralization	
as	Arsenopyrite
au	Gold
bi	Bismuth
bn	Bornite
cp	Chalcopyrite
gn	Galena
hm	Hematite
mt	magnetite
mo	molybdenite
py	pyrite
po	pyrrhotite
sl	sphalerite
tel	telluride
sh	scheelite
wf	wolframite
lm	limonite
gt	goethite
ox	oxides (undifferent.)
jr	jarosite

Mineral_Amount	
1	Trace
2	Trace-0.5%
3	0.5-1%
4	1-5%
5	5-10%
6	>10%

Weathering	
0	Completely weathered
1	Highly weathered
3	Moderately weathered
5	Slightly weathered
7	Fresh and unweathered

Structure	
cont	Contact
jont	Joint
faul	Fault
sher	Shear
stwk	Stockwork
vein	Vein
bedd	bed
brec	breccia
alen	alteration envelope

Struct_Filling	
carb	Carbonate
chl	Chlorite
clay	Clay
qtz	Quartz
ser	Sericite
kfs	K-Feldspar
alb	Albite
trm	Tourmaline
bio	Biotite
epd	Epidote
gyp	Gypsum
fsp	plag fspar

Sulfide Grain Size	
1	fine
2	medium
3	coarse

Main Interval			Rock Type		Description			Sub-Interval			Alteration			QSV or crb-SV				Mineralization					Structure	
From m	To m	Interv Length	Rk Typ Main	Rk Typ 2	Colour	Texture	Oxid state	From m	To m	Interv Length	Alteration Mineral(s)	Alt Strgth	Alt Type	QSV Age	QSV Strgth	QSV Sum Thic mm	QSV Avg Thick	Mineral Main	Min 2	Mineral Type	Mineral Amt	Sulph Grain Size	Structure	Struct Filling
0.00	51.21	51.21	OVBN		Cased to 53.34 m																			
51.21	60.35	9.14	ANDS		Med-dk gn	fg-ms	3	51.21	60.35	9.14	chl-crb-(ser)	2	AP	A (crb)	2	10 to 20	1 to 2	Py	Cp	D	4	1	50% br	
											crb	2	AV					Py		B	3	1		
																			Cp	B	1	2		
									62.75														4 cm wide vein	crb - (hm)
60.35	64.20	3.95	BX	PTUN	Med gy-gn	bx	3	60.35	64.2	3.95	ser-crb-(chl)	3	AP	A (crb)	1	5	<1	Py		D	5	1		
									62.6														Faul 2 cm @ 55 CA	chl-crb-cly-Py(1)
64.20	103.45	39.25	ANDS		Med-dk gn	fg-ms	3	64.2	80.75	16.55	chl-crb-ser	2	AP	A (crb)	1	10	1 to 2	Py		D	5	1		
									65.55														Faul: 3 cm @ 50 CA	gg:chl-crb-cly-Py(1)
									71														Faul 10 cm @ 50 CA	gg: chl-crb-cly-Py(1)
									2.15														Faul: 15 cm @ 50 CA	gg: chl-crb-cly-Py(1)
									72.6														Faul: 20 cm wide	gg: chl-crb-(cly)-Py(1)
					Dk gn	fg-ms	3	80.75	103.45	22.7	chl-crb-ser	2	AP	A (crb)	2	20	1 to 2	Py		D	5	1		
				MZPD	Med gr	po	3		81.1	0.15	chl-crb-ser	2	AP					Py		D	4	1	Cont HW FW @ 45 CA	
									98.55														Faul: 20 cm @ 60 CA	gg: chl-crb-(cly)-Py(1)
									100.05														Alen 5 cm @ 30 CA	ksp-Py(4)-Cp(1)
103.45	106.50	3.05	ANPD		Dk gy-gn	po	3	103.45	106.5	3.05	chl-carb-(ser)	1	AP	A (crb)	1	10	1 to 2	Py		D	3	1		
											cly	1	AS - cly						Cp	D	1	1		
									104.95														Faul 4 cm @ 45 CA	gg: chl-crb-(cly)-Py(1)
106.50	108.15	1.65	ANDS?	DIOR?	Dk gy-gn	fg-mg	3	106.5	108.15	1.65	chl-carb-ser	1 to 2	AP	A (crb)	1	5	1	Py		D	4	1		
											cly	1	AS - cly						Mt	D	4	2		
									106.95														Faul 4 cm @ ? CA	gg: chl-carb-Py(1)
108.15	111.00	2.85	FAZN		Lt gy	bx + gg	3				sil	3	AP	A (crb)	1	5	1	Py		D	4 to 5	1		
											chl-ser-carb	2	AP						Cp	D	1	1		
											cly	3	AP faul gg											
111.00	112.65	1.65	BX	PTUN	Med gy	fg	3		110.25		Sil-ser	3	AS clasts	A (crb)	1	5 to 10	1 to 2	Py		D	4 to 5	1	Faul 30 cm @ 45 CA	gg: cly-chl-crb-Py(1)
											chl-ser-carb	3	AP matrix						Cp	D	1	1		
112.65	127.15	14.50	MZPD		Dk gy-gn	mg	3	112.65	127.15	14.5	chl-ser-crb	1 to 2	AP grmas	A (crb)	1	5	1	Py		D	4	1		
									115.1														Faul 4 cm @ ? CA	gg: cly-chl-crb-Py(1)
								119	119.3	0.3													Faul 10 cm @ ? CA	gg: cly-chl-crb-Py(1)
									127.15														Cont FW @ 50 CA	
127.15	145.85	18.70	ANDS	ANDS	Lt. gy to dark gy-gn	fq	3	127.15	142.80	15.65	chl-ser-crb	2 to 3	AP											
											ksp	1	AP local	A (crb)	1	10	1 to 2	Py	Cp	D	1	1		
				DRPD	Dark gn	po	3	142.8	145.85	3.06	chl-crb	1	AP	A (crb)	1	10	1 to 2	Py		D	3	1		
145.85	146.30	0.45	ANPD		Med gy-gn	po	3				chl-(crb)	1	AP	A (crb)	1	5	1 to 2	Py		D	1	1		
											ser	1	AS											
											cly	1	AS											
									142.8														Cont HW @ 55 CA	

Main Interval			Rock Type		Description			Sub-Interval			Alteration			QSV or crb-SV				Mineralization					Structure	
From m	To m	Interv Length	Rk Typ Main	Rk Typ 2	Colour	Texture	Oxid state	From m	To m	Interv Length	Alteration Mineral(s)	Alt Strgth	Alt Type	QSV Age	QSV Strgth	QSV Sum Thic mm	QSV Avg Thick	Mineral Main	Min 2	Mineral Type	Mineral Amt	Sulph Grain Size	Structure	Struct Filling
146.30	179.35	33.05	ANDS?	ANDS?	Lt. gy to	fg + bx	3	146.3	171.8	25.5	chl-ser-	2 to 3	AP	A (crb)	1	10	to 2; locally	Py		D + FF	4 to 6	1		
					med gn						ksp	2 to 3	AP local						Cp	D	1	1		
									149.15														Faul: 30 cm wdi: cly-chl-crb-py	
									160.75														Faul: 30 cm @ 5+ gg: cly-chl-crb	
				DRPD	Dk gn	po	3	171.8	173.1	1.3	chl-crb-	1	AP-AS	A (crb)	2	20	1 to 2							
				ANDS?				173.1	179.35	6.25	chl-ser-	1 to 2	AP	A (crb)	1 to 2	14885	1 to 5	Py		D + FF	4	1		
											ksp	1 to 2	AP local				(up to 40)		Cp	D	1 to 2	1		
									176.6														Faul 35 cm @ 7(gg: chl-crb-(cly)	
179.35	180.35	1.00	FAUL	PTUN	Med gn to	fg	3				ser-chl	2 to 3	AP frags	A (crb)	3	300	20	Py		D	4 to 5 frags	1		
					tan						crb	3	AV						Cp	D	1	1	t (FW) @ 25 CA	
180.35	189.35	9.00	ANDS?		Med gn to	fg to bx	3				ser-chl-	2 to 3	AP	A (crb)	2	100-400	1 to 5	Py		D	4	1		
					locally tan						ksp?	2	AP local				(up to 40)		Cp	D	1	1		
189.35	191.85	2.50	FAUL		lt gy	bx + fg	3				ser-(crb-	2 to 3	AP frags	A (crb)	2	15-400	1 to 3	Py		D	4 to 5	1		
											cly	3	AP gg				(one V @ 400)		Cp	D	1	1		
191.85	194.35	2.50	ANDS?		lt gn to tn	fg	3				ser-(crb-	2 to 3	AP	A (crb)	1 to 2	20	1 to 3	Py		D + FF	4 to 5	1		
					cr						ksp	1	AP local				(up to 5)		Cp	D + B	1	1		
											cly	1	AP local											
194.35	195.10	0.75	FAUL		lt gy	bx + fg	3				ser-(crb-	2 to 3	AP frags	A (crb)	1	15	1 to 2	Py		D	3 to 4 frags	1		
											ksp	1	AP				(up to 10)	Py		D	1 to 2 in gg	1		
											cly	3	AP gg											
195.10	196.30	1.20	BREC		lt gy-gn	bx + fg	3				ser-(crb-	2 to 3	AP + AM	A (crb)	2	50	40	Py		D	4 to 5	1		
						gg					cly	1	AP						Cp	D	1	1		
											sil	1 to 2	AP local											
196.30	197.30	1.00	FAUL		lt gy	bx + fg	3				ser-(chl)	2	AP	A (crb)	1	10	1 to 2	Py		D	1 to 2	1		
											cly	3	AP (gg)											
197.30	209.35	12.05	BX	PTUN	lt to	bx + fg	3				ser-(crb-	3	AP frags	A (crb)	3	20-100	1 to 3	Py		D + FF	3 to 4 frags	1		
					med gy						cly	1 to 2	AP frags				(up to 100)		Cp	D + FF	1 to 3 frags	1		
											ksp	1	AP frags											
209.35	210.20	0.85	FAUL		lt gy	bx + fg	3				ser-(crb)	2 to 3	AP	A (crb)	2	20	3 to 4	Py		D	4 to 5 frags	1		
											cly	3	AP (gg)									1	fabric @ 40 CA	
209.35	214.85	5.50	BX	PTUN	lt to med g	bx + fg	3				ser-crb	3	AP	A (crb)	1 to 2	10 to 20	1 to 2	Py		D + FF + A	4 to 6	1		
					(locally tn)						ksp	1	AP frags						Cp	D	1 frags	1		
214.85	216.80	1.95	DRPD		dk gn to tn	po	3				chl-(crb-ser	2 to 3	AP	A (crb)	2 to 3	30 to 40	1 to 3	Py		D + FF	4 to 5	1	nt (HW) @-chl gg @ cont	
											ksp	2	AP local						Cp	D + B	1 to 2	1		
216.80	229.55	12.75	PTUN	BX	med to	fg + bx	3				ser-crb	2 to 3	AP	A (crb)	3	20 to 200	1 to 5	Py		D + FF	4 to 5	1		
					dk gr-gn						ksp	2	AP local				(up to 40)		Cp	D	1 to 2	1		
											cly	1	AP local											
											sil	1	AP local											
								218.15	218.7	0.55													Faul @ ? C/ly-chl gg + bx	
229.55	231.38	1.83	FAUL		med gy-gn	bx + gg	3				ser (crb-sil)	2	AP frags	A (crb)	1 to 2	10 to 20	1 to 3	Py		D	3 to 4			
					to cr						cly	3	gg				(up to 30)		Cp	D	1			
231.38	237.30	5.92	MZPD		med gy-gn	po	3				chl-(ser)	1 to 2	AP	A (crb)	1	15	1 to 3	Py		D	3 to 4	1		
					to tn						ksp	1 to 2	AP + AE						Cp	D	1	1	t (FW) @ 50 CA	
											cly	1	AP											
237.30	239.50	2.20	PTUN		lt gy to tn	fg	3				ser-crb	3	AP fsp	A (crb)	3	120	10 to 20	Py		D + FF	4 to 5	1		
											ksp?	1 to 2	AP local				(up to 100)		Cp	B	1	2		
239.50	247.28	7.78	MZPD		med gy to	po	3				ser-chl	1	AS	A (crb)	1 to 2	18537	1 to 3	Py		D	1 to 2	1	t (HW) @ 30 CA	
					pk-tn						cly	1	AS fsp				(up to 40)		Mt	D	2	1	= Cont @ 4 cm wide): cly-chl	
								243.05	243.9	0.85													Faul: gg: cly + gg	
247.28	251.50	4.52	PTUN		lt gy to tn	fg + po	3				ser-crb	3	AP	A (crb)	1	10	1 to 2	Py		D + FF	5 to 6	1		
											ksp	2	AP local						Cp	B	1	2		
251.50	255.42	3.92	DRPD		med gy-gn	po	3				ser-chl-crb	2	AP	A (crb)	1	<10	3	Py		D + FF	3 to 4	1	t (HW + FW) @	
	EOH										ksp	1	AE local						Cp	B	1	1-2	50 CA	
								252.37	253.05	0.68													Faul @ 50-70 (bx: cly-chl-Py (1)	

C11-02

Main Interval			Rock	Description			Sub-Interval		Alteration			QSV or crb-SV				Mineralization					Structure	
From m	To m	Interv Length	Rk_Typ	Colour	Texture	Oxid state	From m	To m	Alteration Mineral(s)	Alt Strgth	Alt_Type	QSV Age	QSV Strgth	QSV SumThick mm	QSV Avg Thick	Main	Min 2	Mineral Type	Mineral Amt	Sulph Grain Size	Structure	Struct_Filling
0.00	46.63	49.70	OVBN	Cased to 48.77 m																		
46.63	46.78	0.15	MONZ	med gy-gn	2 to 3	2			chl	1	AS					Py		D	4	1 to 2		
									ep	1	AS						Lim	FF	1	1		
46.78	48.82	2.04	MZPD	tn-gy	po	3			chl	1	AS	A (crb)	1	<10	1 to 4	Py		D	4	1 to 2		
								46.78													Faul: 2 cm wide @ 60 CA (HW cont dike)	cly-chl-crb-Lim(1)
48.82	57.70	8.88	MONZ	pk-gy	cg	3			chl-crb	1	AS	A (crb)	1	<10	1 to 2	Py		D	4	2		
									ep	1	AS (after fsp)											
									ksp	1	AE (on crb V)											
								53.9													Faul 7 cm @ 60 CA	gg: cly-chl-crb-Py(1)
								54.3													Faul 5 cm @ 40 CA	gg: cly-chl-crb-Py(1)
57.70	59.90	2.20	MZPD	gy-(tn)	po	3			chl-crb-(ser)	1 to 2	AS	A (crb)	1	<10	1 to 2	Py		D + FF	4	1 to 2		
								59.9													Cont (FW) @ 60 CA	
59.90	87.30	27.40	MONZ	med gy-gn	cg	3			chl	1 to 2	AS & AF	A (crb)	1	10 to 20	1 to 3	Py		D + FF	4	1 to 2		
									ep	2	AS + AP						Cp?	D	1	1		
									ksp	1-Jan	AE + AP											
								3.05													shear @ low angle to CA	(gg): str. Chl
87.30	88.45	1.15	DRPD	med gy-gn	fg + po	3			chl-carb-(ser)	1 to 2	AP	A (crb)	1	10 to 20	1 to 2	Py		D	1	1		
									chl	1	AF											
								87.3													Cont (HW) sharp @ 75 CA	
								88.45													Faul: 4 cm @ 40 CA	gg: cly-chl-crb-Py (1)
88.45	89.14	0.69	MONZ	med gy-gn	cg	3			chl	1 to 2	AS + AF	A (crb)	1	5	1	Py		D + FF	4	1 to 2		
				(tn)					ep	1 to 2	AS + AP loc.						Cp	B on FF	1	1		
89.14	92.45	3.31	DRPD	med gy-gn	fg + po	3			chl-carb-(ser)	1 to 2	AP	A (crb)	2	30	1 to 3	Py		D + B	1 to 2	1 to 2		
									chl	1	AF											
								89.14													Cont (HW) sharp @ 75 CA	
								90.82													Faul: 3 cm gg zone	
	99.25	6.80	MONZ	med gy-gn	cg	3	92.5	94.45	chl	1 to 2	AS + AF	A (crb)	1	10	1 to 3	Py		D + FF	4	1 to 2		
				(tn)					ep	1 to 2	AS + AP loc.											
							92.9	93.55													Faul: ~ 0.7 m wide zone	gg + bx: cly-chl-crb-Py
							94.5														Cont: grad'l cg to fg MONZ	
				med gy-gn	mg	3	94.5	99.25	chl	1 to 2	AS + AF	A (crb)	1	<10	1 to 2	Py		D + FF	4 to 5	1 to 2		
				(tn)					ep	1 to 2	AS + AP loc.						Cp	D	1	1		
									ksp	1	AP (local)											
99,25	103.54	4.29	MZPD	pk-tn	fg	3			chl-crb	1	AS (mafics)	A (crb)	1	10	1 to 2	Py		D	1 to 2	1		
																	Cp?	D	1	1		
								99.85													Faul: 8 cm @ 45 CA	gg + bx: cly-chl-Py (2)
103.54	127.15	23.61	MONZ	med gy-gn	mg	3			chl	1 to 2	AS + AF + AP	A (crb)	2 to 3	20-50	2 to 4	Py		D + FF	5	1 to 2		
				(tn)					ep	1 to 2	AS (fsp).				(up to 40)		Cp	D	1	1		
									ksp	1	AP (local)											
									cly	1 to 2	AS											
								104.2													Faul: 10 cm wide @	gg + bx: cly-chl-crb-Py
127.15	130.90	3.75	DRPD	med gy-gn	fg + po	3			chl	1 to 2	AS + AP	A (crb)	2	20	1 to 3	Py		D	1 to 2	1		
									cly	1 to 2	AS											
								130.9													Cont (FW): sharp	
130.90	174.00	43.10	MONZ	med gy-gn	mg	3	131	164.5	chl-crb-(ser)	1 to 2	AS + AP	A (crb)	2	20-30	1 to 3	Py		D + FF	4 to 5	1 to 2		
				(tn)					cly	1	AS				(up to 30)		Cp	D	1	1		
									ksp	1 to 2	AP											
				pk-tn	mg	3	165	174	ksp	2 to 3	AP	A (crb)	2	20-40	1 to 3	Py		D + FF	4 to 5	1 to 2		
									chl-ser-crb	1 to 2	AS				(up to 10)		Cp	D	1	1		
									chl	2	AF											
174.00	174.95	0.95	FAUL	lt gy-cr	bx + gg	2			cly-chl-(crb)	2 to 3	AP	A (crb)	1	<10	1 to 2	Py		D	1	1		
																	Lim	FF	1	1 to 2		
							174														Faul (HW) @ 70 CA	
							175														Faul (FW) @ 70 CA	
174.95	177.00	2.05	MONZ	med gy-gn	mg-cg	3			ser-chl-crb	2	AP	A (crb)	2	20-30	1 to 3	Py		D + FF	5	1 to 2		
									ksp	2	AP				(up to 5)		Cp?	D	1	1		
177.00	177.30	0.30	FAUL	dk gy-gn	f+ gg	2			chl-cly-crb	3	AP	nil veins				Py		D	1	1		
																	Hem	FF	1 to 2	1		
								177													Faul (HW) @ 40 CA	
177.30	177.71	0.41	MONZ	pk-dk gy	mg	2			chl-(ser)	2	AP	A (crb)	1	<10	1	Py		D + FF	4	1 to 2		
									ksp	2 to 3	AP						Cp	D + B	1 to 2	1		
																	Mt	D	1 to 2	1 to 2		
																	Hem	FF	1	1		
177.71	179.22	1.51	FAUL	md-dk gy-gn	fg + GG	2			chl-cly-crb	3	AP	nil veins				Py		D + FF	4	1 to 2		
																	Cp	D	1	1		
179.22	181.70	2.48	MONZ?	dk gy-gn to	mg + po	2			chl-(ser)	3	AP	A (crb)	1	<10	1	Py		D + FF	4	1 to 2		
				pk-tn					ksp	2 to 3	AP						Cp	D	1 to 2	1		
																	Hem	FF	1	1		
181.70	182.85	1.15	MZPO	gy-tn	po	3			chl	2 to 3	AP + FF	A (crb)	1	<10	1	Py		D + FF	4	1 to 2		
									ep	2	AS						Cp	D + FF	1 to 2	1		
							182	182.9													Cont (HW & FW) @ 40 CA	
182.85	185.32	2.47	MONZ?	dk gy-gn to	mg + po	2			chl-(ser)	3	AP	A (crb)	1	<10	1 to 2	Py		D + FF	4 to 5	1 to 2		
	EOH			locally pk-tn					ksp	2	AP				(up to 5)		Cp	D	1 to 2	1 to 2		
									ep	1 to 2	AS						hem	FF	1 to 2	1		

C11-03

Main Interval			Rock Type		Description			Sub-Interval				Alteration			QSV or crb-SV				Mineralization					Structure	
From m	To m	Interv length	Rk Typ Main	Rk_Typ_2	Colour	Texture	Oxid state	From m	To m	Interv length		Alteration Mineral(s)	Alt Strgth	Alt_Type	QSV_Age	QSV Strgth	QSV Sum Thic mm	QSV_Avg_Thick	Main Mineral	Min 2	Mineral_Type	Mineral_Amt	Sulph Grain Size	Structure	Struct Filling
0.00	66.07	66.07	OVBN																						
66.07	75.59	9.52	ANDS	ANBX	dk gn	fg to locally fm	3					chl ep	1 1	AS (after mafics) + AP AS (after fsp) + AV (w/ crb)	A (crb - incl. sid)	1	<10	1 to 2 (up to 3)	Py	Lim	D + A + V (w/crb) FF	1 to 2 1	1 to 2 1		
75.59	80.90	5.31	MZPD		med gy-gn (locally tn)	po	3					chl-(crb) ep	1 1	AS (after mafics) + AP AS (after fsp)	A (crb)	1	<10	1	Py		D	1 to 2	1		
									at 75.59 m at 80.90 m															Cont (HW) @ 65? CA Cont (FW) @ 50 CA	
80.90	86.75	5.85	ANBX	ANDS	dk gn	bx + locally fg	3					chl-(crb) ep	1 1	AS (after mafics) + AP AS (after fsp) + AV (w/ crb)	A (crb - incl. sid)	1	10	1 to 2 (up to 3)	Py	Cp	D + V (w/ crb) B in crb V w Py	2 1	1 to 2 1		
86.75	103.15	16.40	MZPD		med gy-gn (locally tn)	po	3					hl	1	AS (after mafics)					Py		D	1 to 2; locally 4	1 to 2		
				ANDS(frags)					at 103.15 m															Cont (FW) @ 80 CA	
103.15	111.80	8.65	BX	MONZ (as frags & as matrix to ANDS frags)	dk gn (ANDS frags) to lt gy (MONZ frags)	bx	3					chl ep	1 1	AS (after mafics) AS (after fsp)	A (crb)	1	<10	1	Py	Cp	D + B FF	2 to 3; locally 4 1	1 to 2 1		
111.80	113.73	1.93	MZPO		med gy-gn (locally some tn)	po	3	.				chl-(crb-ser) ep	1 to 2 1	AS (after mafics) + AP loc AS (after fsp) + AV (w/ crb, qtz & Py A)	A (crb)	1	<10	1	Py		D	1	1		
									at 111.80 m at 113.73 m															Cont (HW) @ 80 CA Cont (FW) @ 65 CA	
113.73	115.75	2.02	BX		dk gn (ANDS frags) to lt gy	bx	3					chl-(ser)	1	AS (after mafics) + AP local	A (crb)	1	<10	1	Py	Cp	D + V D	3 to 4 1	1 to 2 1		
115.75	125.03	9.28	ANDS		dk gn	fg	3					chl-ser-crb ep qtz	2 1 1	AP AS (after fsp) + AV AP (local) + (AV)	A (crb)	1	10	1 to 2	Py	Cp	D + FF D + FF	2 to 3; 4 locally 1	1 to 2 1		
125.03	125.55	0.52	MZPO		med gy-gn	po	3					chl-ser	1	AP	A (crb)	1	<10	1	Py		D	2			
									at 125.55 m															Cont (FW) @ 45	
125.55	126.36	0..81	ANDS		dk gn; locally med gy	fg	3					chl-ser-crb	1 to 2	AP locally	A (crb)	1	15	1 to 2	Py	Cp	D + FF D	2 to 3 1	1 to 2 1		
126.36	130.30	3.94	MZPO		med gy-gn (tn)	po	3					chl ep	1 1 to 2	AS (after mafics) AS (after fsp)	A (crb)	1	10	1 to 3	Py		D	1 to 2	1		
									at 127.5 m at 130.3 m															Faul: 7 cm @ 45 CA Cont (FW) at ~60 CA	bx + gg: cly-chl-crb
130.30	175.20	44.90	ANDS		med to dk gn	fg	3	130.3	143.45 at 146.9 m	13.15		chl-ser-crb	1 to 2	AP	A (crb)	1 to 2	10 to 50	1 to 3	Py	Cp	D + FF	2 to 3 locally	1 to 2		
					lt. to dk gn - locally pk-or	mainly fg (some mg)	3	143.45	175.2	31.75		chl-(ser)	1 to 2	AP	A (crb)	2	50	1 to 3 (up to 50)	Py	Cp	D + FF D	2 to 3 1	1 to 2 1	3 cm crb V w/ cp	
								171	171.6	0.60														Faul 60 cm @ 55 CA	bx + gg: cly-chl-crb-Py
175.20	179.30	4.10	BX		dk gn (ANDS frags) to lt gy	fg (ANDS) to mg (MONZ)	3					chl-ser-(crb) ep	1 to 2 1	AP AP (local)					Py	Cp?	D + V + B/A B	4 1	1 to 3 2		
179.30	179.95	0.65	DRPD		med gy-gn	po	3					chl-(ser-crb) ep	1 1	AP AS (fsp).	A (crb)	1	<10	1	Py		D + FF	4	1		
									at 179.3 m at 179.95 m															Cont (HW) @ 45 CA Cont (FW) @ 45 CA	
179.95	187.70	7.75	BX		dk gn (ANDS frags) to lt gy (MONZ frags)	fg (ANDS) to mg (MONZ)	3					chl-(ser-crb) ep sil	1 1 1	AP AS (fsp). AP (local ass'd w/ ep)	A (crb - incl. sid)	1 to 2	20	1 to 2 (up to 5)	Py		D + V + B/A	4	1 to 3		
187.70	191.65	3.95	MZPD		med gy-gn (tn)	po	3					chl ep	1 1	AS (after mafics) AS (after fsp)	A (crb)	1	<10	1 to 2	Py	Cp	D + FF FF (w/ crb)	1 to 2 1	1 2		
									at 191.65 m															Cont (FW) @ 35 CA	
191.65	201.40	9.75	BX		dk gn (ANDS frags) to lt gy (MONZ frags)	fg (ANDS) to mg (MONZ)	3					chl-(ser) ep	1 1	AS (after mafics) + AP (loc) AS (after fsp)	A (crb)	1	10 to 15	1 to 2 (up to 4)	Py	Cp	D + FF FF + D in MONZ frag	2 to 3 1	1 to 2 1		
201.40	209.70 EOH	8.30	ANDS		med to dk gy	fg	3					chl	1	AS (after mafics) & AP (loc)	A (crb)	1	10 to 15	1 to 2	Py	CP	D	1 to 2	1		

C12-01

		Main Interval			Rock Type		Description				Sub-Interval			Alteration			QSV or crb-SV				Mineralization					Structure	
Sort	HoleID	From_m	To_m	Interv_Length	Rk Typ Main	Rk Typ 2	Colour	Texture	Oxid state	Weathering	From_m	To_m	Interv_Length	Alteration Mineral(s)	Alt Strength	Alt Type	QSV Age	QSV Strength	QSV_SumThick mm	QSV_Avg_Thick	Mineral Main	Mineral 2	Mineral Type	Mineral Amt	Sulph Grain Size	Structure	Struct Filling
	C12-01	0.00	54.26	54.26	**OVERBURDEN**		Cased to 54.26 m																				
		54.26	57.25	2.99	**ANDS**		med-dk grn	fg-ms	3					chl-ser-cly	2	AP					py		D	2	1		
		57.25	57.90	0.65	**FAUL**			qq-br	3																		
		57.9	63.7	5.80	**ANDS**		med-dk grn	fg-mg	3					chl-ser-cly	2	AP					py		D	3	1		
		63.70	63.80	0.10	**FAUL**			gg-br	3																		
		63.80	65.10	1.30	**ANDS**		med-dk grn	fg-mg	3					chl-ser-cly	2	AP					py		D	3	1		
		65.10	65.25	0.15	**FAUL**			gg	3																		
		65.25	66.15	0.90	**ANDS**		med-dk grn	fg-mg	3					chl-ser-cly	2	AP					py		D	3	1		
		66.15	66.44	0.29	**FAUL**			qq	3																		
		66.44	73.35	6.91	**MZPD**		grey-brn	mg	2					hem	1												
		73.35	75.10	1.75	**ANDS**		grey-grn	fg-mg	3					cly-chl-ser	3	AP					py	cp	D	4	1		
		75.10	76.50	1.40	**FAUL**			gg	3																		
		76.50	85.40	8.90	**ANDS**		grey-grn	fg-mg	3					cly-chl-ser	3	AP					py	cp	D	4	1		
		85.40	86.50	1.10	**FAUL**			br-qq	3																		
		86.50	92.30	5.80	**ANDS**		grey-grn	fg-mg	3					cly-ser-(ksp)	3	AP					py	cp	D	4	1		
		92.30	92.50	0.20	**FAUL**			gg-br	3																		
		92.30	100.30	8.00	**ANDS**		grey-grn	fg-mg	3					cly-ksp-ser	3	AP			crb	3 mm	py		D	1	1		
		100.30	100.50	0.20	**FAUL**			br-qq	3																		
		100.50	104.00	3.50	**ANDS**		med-dk grn	fg-mg	3					chl	2	AP			crb	3 mm	py		D	1	1		
		104.00	109.50	5.50	**ANDS**		grey-grn	fg-mg	3					ksp-ser	2	AP					py	cp	D	2	1		
		109.30	109.70	0.40	**FAUL**			br-gg	3																		
		109.70	112.10	2.40	**ANDS**		grey-grn	fg-mg	3					ksp-ser	2	AP			crb	3 mm	py	cp	D	1	1		
		112.10	117.20	5.10	**ANDS**		dk grn	fg-mg	3					chl-ksp-ser	2	AP			crb	3 mm	py	cp	D	3	1		
		117.20	117.90	0.70	**FAUL**			qq-br	3																		
		117.90	123.00	5.10	**ANDS**		dk grn	fg-mg	3					chl-ksp-ser	2	AP			crb	3 mm	py	cp	D	5	1		
		123.00	125.88	2.88	**ANDS**		grey-grn	fg-mg	3					ksp-ser	3	AP			crb	3 mm	py	cp	D	5	1		

30 CA

C12-02

Main Interval			Rock Type		Description			Sub-Interval			Alteration			QSV or crb-SV				Mineralization						Structure	
From_m	To_m	Interv_Length	Rk Typ Main	Rk_Typ_2	Colour	Texture	Oxid state	From_m	To_m	Interv_Length	Alteration Mineral(s)	Alt Strength	Alt_Type	QSV Age	Vein type	Vein_Freq_per m	Vein thickness mm	Mineral_Main	Mineral_2	Mineral Type	Mineral_Main_Amt	Mineral 2 Amt	Sulph Grain Size	Structure	Struct Filling
0.00		54.26	**OVERBURDEN**		Cased to 85.35 m																				
	118.26	ped - see log for C12-01																							
54.26	124.30	70.04	**ANDS**		med-dk gm	fg-ms	3				chl-ser	2	AP					py		D	2		1		
124.30	132.30	8.00	**ANDS**		med-dk gm	fg-ms	3				chl-ser	2	AP		crb-qvp	10	3	py	cp	D		2	1		
132.30	138.30	6.00	**MZPD**		bm	fg-mg	3								crb	5	2								
138.3	149.3	11.00	**ANDS**		dk gry- grn	fg-mg	3				ser-ksp	2	AP		crb-qvp	5	3	py	cp	D	3	1	1		
149.3	149.7	0.40	**ANDS**		gry	fg-mg	3				cly	3	AP												
149.70	153.00	3.30	**MZPD**		bm	fg-mg	3								crb	5	2								
153.00	154.40	1.40	**ANDS**		gry	fg-mg	3				cly	3	AP					py		D		3	1		
154.40	156.70	2.30	**ANDS**		gry-grn	fg-mg	3				ser-ksp-chl	2	AP		crb-qvp	1	5	py	cp	D	4	1	1		
156.70	156.80	0.10	**FAUL**		gry	gg	3																		
156.80	167.55	10.75	**ANDS**		gry-grn	fg-mg	3				ser-ksp-(chl)	2	AP		crb-qvp	3	4	py	cp	D	4	1	1		
167.55	168.25	0.70	**MZPD**		bm	mg	3																		
168.25	173.00	4.75	**ANDS**		grey-grn	fg-mg	3				ser-ksp-(chl)	2	AP		crb-qvp	2	5	pv	cp	D	3	1	1		
173.00	198.20	25.20	**ANDS**		med-grn	fg-mg	3				ser-ksp-chl	2	AP		crb-qvp	15	4	py	cp	D	4	1	1		
198.20	199.40	1.20	**ANDS**		gry-grn	fg-mg	3				ser-ksp	2	AP					pv	cp	D	2	2	1		
199.40	206.30	6.90	**ANDS**		gry	fg-mg	3				ser-ksp	2	AP		crb-qvp	20	3	py	cp	D	2	2	1		
206.30	206.40	0.10	**FAUL**		gry	gg-br	3																		
206.40	212.70	6.30	**ANDS**		gry	fg-mg	3				ser-ksp	3	AP		crb-qvp	20	3	pv	cp	D	4	1	1		
212.70	212.80	0.10	**FAUL**		gry	br-gg	3																		
212.80	222.00	9.20	**ANDS**		gry	fg-mg	3				chl	2	AP			20	3	pv		D		1	1		
222.00	222.10	0.10	**FAUL**		gry	br-gg	3																		
222.10	237.00	14.90	**ANDS**		gry	fg-mg	3				ksp-ser	2	AP		crb-qvp	5	3	pv		D	3		1		
237.00	237.15	0.15	**FAUL**		gry	gg-br	3																		
237.15	242.50	5.35	**ANDS**		gry	fg-mg	3				ksp-ser	2	AP					pv		D	3		1		
242.50	242.90	0.40	**FAUL**		gry	gg-br	3																		
242.50	246.40	3.90	**ANDS**		dk-gry	fg-mg	3				ksp-ser	2	AP					py		D	4		1		
246.40	246.70	0.30	**FAUL**		gry	gg-br	3																		
246.70	250.70	4.00	**ANDS**		gry	fg-mg	3				ksp-ser-clv	2	AP					pv		D	3		1		
250.70	253.40	2.70	**MZPD**		bm	fg-mg	3																		
253.40	254.00	0.60	**ANDS**		lt-gry	fg-mg	3				ksp-ser-clv	2	AP					pv		D	1		1		
254.00	255.30	1.30	**MZPD**		bm	fg-mg	3																		
255.30	274.70	19.40	**ANDS**		gry	fg-mg	3				ksp-ser	2	AP					pv	cp	D-FF	4	1	1 + 2		
273.70	278.10	4.40	MZPD		bm	fg-mg	3																		
278.10	287.50	9.40	**ANDS**		gry	fg-mg	3				ksp-ser	2	AP		crb	2	3	pv	cp	D-FF-B	4	1	1 + 2		
287.50	293.40	5.90	**ANDS**		gry-gm	fg	3				ksp-chl-epi	2	AP		crb	8	3	py		D-B	5		1		
293.40	312.60	19.20	ANDS		grn-gry	fg	3				ksp-chl	2	AP		crb	5	3	pv		D	4		1		
312.4	314	1.6	ANDS		gry-grn	fg	3				ksp-chl-epi	2	AP					py	cp	D-B	3	1	1		
314	319.3	5.3	ANDS		grn-gry	fg	3				ksp-chl	2	AP		crb	1	8	py		D	3		1		
319.3	319.4	0.1	FAUL		gry	gg	3																		
319.4	323.8	4.4	ANDS		gry	fg-mg	3				ksp-ser	2	AP		crb-qyp	2	3	py	cp	D-FF-B	5	1	1 + 2		
323.8	326.1	2.3	ANDS		med-dk gm	fg	3				ksp-chl	2	AP		crb-qyp	3	3	py	cp	D-FF-B	4	1	1		
326.1	346.2	20.1	ANDS		gry	fg-mg	3				ksp-ser	2	AP		crb-qyp	10	3	py	cp	D-FF-B	5 to 6	1	1 + 2		
346.2	350.6	4.4	ANDS		grn-gry	fg	3				chl	2	AP					py		D	3		1		
350.6	356	5.4	ANDS		dk gry	fg	3				ksp-ser	2	AP		crb	3	3	py	cp	D-FF-B	5	1	1 + 2		
356	356.6	0.6	MZPD		bm	fg	3											py		D	2		1		
356.6	365.5	8.9	ANDS		dk gry	fg	3				ksp-ser	2	AP		crb	3	3	py	cp	D-FF-B	5	1	1 + 2		
365.5	375	9.5	ANDS		dk gry	fg	3				ksp-ser	2	AP		crb-qyp	12	3	py	cp	D-FF-B	5	1	1		
375	386.5	11.5	ANDS			fg	3				ser-epi	2	AP		crb	2	3	py		D	4		1		
386.5	389.2	2.7	**FAUL**		br	br	3																		
389.2	392.5	3.3	**ANDS**		dk gry-grn	fg-mg	3				chl	2	AP		crb	2	2	py		D	5		1		
392.5	394.3	1.8	**MZPD**		brn-gry	cg	3											py	cp	D	4	1	1		
394.3	401	6.7	**ANDS**		dk gry-grn	fg-mg	3				ser-chl	2	AP					py	cp	D	3	1	1		
401	410.8	9.8	**ANDS**		dk gry-grn	fg-mg	3				chl-hem	2	AP		crb	2	3	py	cp	D-FF	3	1	1		
410.8	427.2	16.4	**ANDS**		dk gry-grn	fg-mg	3				chl-(ksp)	2	AP		crb	2	3	py	cp	D-FF	4	1	1		
427.2	432.6	5.4	**FAUL**		dk gry	gg	3																		
432.6	440.3	7.7	**ANDS**		dk gry-grn	fg-mg	3				epi-chl (ksp)	2	AP		crb	2	3	py	cp	D-FF	3	1	1		
440.3	442.45	2.15	**MZPD**		brn-gry	cg	3											py		D	3		1		
442.45	499.27	56.82	**ANDS**		dk gry-grn	fg-mg	3				epi-chl (ksp)	2	AP		crb	2	3	py		D	3		1		
	EOH																								

DH	Sample ID	From	To	Length (m)
C11-01	032528	119.60	123.45	3.85
C11-01	032529	123.45	127.00	3.55
C11-01	032530	127.00	130.90	3.90
C11-01	032531	130.90	135.10	4.20
C11-01	032532	135.10	139.47	4.37
C11-01	032533	139.47	142.00	2.53
C11-01	032535	Cu Std		
C11-01	032538	142.00	144.00	2.00
C11-01	032539	144.00	146.00	2.00
C11-01	032540	146.00	148.00	2.00
C11-01	032541	148.00	150.00	2.00
C11-01	032542	150.00	152.00	2.00
C11-01	032543	152.00	154.00	2.00
C11-01	032544	154.00	156.00	2.00
C11-01	032545	156.00	158.00	2.00
C11-01	032546	158.00	160.00	2.00
C11-01	032547	160.00	162.00	2.00
C11-01	032548	162.00	164.00	2.00
C11-01	032549	164.00	166.00	2.00
C11-01	032550	Au Std		
C11-01	032551	166.00	168.00	2.00
C11-01	032552	168.00	170.00	2.00
C11-01	032553	170.00	172.00	2.00
C11-01	032554	172.00	174.00	2.00
C11-01	032555	174.00	176.00	2.00
C11-01	032556	176.00	178.00	2.00
C11-01	032557	178.00	180.00	2.00
C11-01	032558	180.00	182.00	2.00
C11-01	032559	182.00	184.00	2.00
C11-01	032560	184.00	186.00	2.00
C11-01	032561	186.00	188.00	2.00
C11-01	032562	188.00	190.00	2.00
C11-01	032563	190.00	192.00	2.00
C11-01	032564	192.00	194.00	2.00
C11-01	032565	Duplicate	194.00	2.00
C11-01	032566	194.00	196.00	2.00
C11-01	032567	196.00	198.00	2.00
C11-01	032568	198.00	200.00	2.00
C11-01	032569	200.00	202.00	2.00
C11-01	032570	202.00	204.00	2.00
C11-01	032571	204.00	206.00	2.00
C11-01	032572	206.00	208.00	2.00
C11-01	032573	208.00	210.00	2.00
C11-01	032574	210.00	212.00	2.00
C11-01	032575	212.00	214.00	2.00
C11-01	032576	214.00	216.00	2.00
C11-01	032577	216.00	218.00	2.00
C11-01	032578	218.00	220.00	2.00
C11-01	032579	220.00	222.00	2.00
C11-01	032580	Blank		
C11-01	032581	222.00	224.00	2.00
C11-01	032582	224.00	226.00	2.00
C11-01	032583	226.00	228.00	2.00
C11-01	032584	228.00	230.00	2.00
C11-01	032585	230.00	232.00	2.00
C11-01	032586	232.00	234.00	2.00
C11-01	032587	234.00	236.00	2.00
C11-01	032588	236.00	238.00	2.00
C11-01	032589	238.00	240.00	2.00
C11-01	032590	240.00	242.00	2.00
C11-01	032591	242.00	244.00	2.00
C11-01	032592	244.00	246.00	2.00

DH	Sample ID	From	To	Length (m)
C11-01	032593	246.00	248.00	2.00
C11-01	032594	248.00	250.00	2.00
C11-01	032595	250.00	252.00	2.00
C11-01	032596	252.00	254.00	2.00
C11-01	032597	254.00	255.42	1.42
C11-02	032598	63.00	66.00	3.00
C11-02	032599	72.00	75.00	3.00
C11-02	032600	85.00	88.00	3.00
C11-02	032601	95.00	98.00	3.00
C11-02	032602	103.55	106.00	2.45
C11-02	032603	106.00	109.00	3.00
C11-02	032604	109.00	112.00	3.00
C11-02	032605	112.00	115.00	3.00
C11-02	032606	115.00	118.00	3.00
C11-02	032607	118.00	121.00	3.00
C11-02	032608	121.00	124.00	3.00
C11-02	032609	124.00	127.00	3.00
C11-02	032610	127.00	130.00	3.00
C11-02	032611	130.00	133.00	3.00
C11-02	032612	Blank		
C11-02	032613	133.00	136.00	3.00
C11-02	032614	136.00	139.00	3.00
C11-02	032615	139.00	142.00	3.00
C11-02	032616	142.00	145.00	3.00
C11-02	032617	145.00	148.00	3.00
C11-02	032618	148.00	151.00	3.00
C11-02	032619	151.00	154.00	3.00
C11-02	032620	154.00	157.00	3.00
C11-02	032621	157.00	160.00	3.00
C11-02	032622	160.00	163.00	3.00
C11-02	032623	163.00	166.00	3.00

DH	Sample ID	From	To	Length (m)
C11-02	032624	166.00	169.00	3.00
C11-02	032625	169.00	172.00	3.00
C11-02	032626	172.00	174.00	2.00
C11-02	032627	Cu Std		
C11-02	032628	174.00	177.30	3.30
C11-02	032629	177.30	179.22	1.92
C11-02	032630	179.22	181.00	1.78
C11-02	032631	181.00	183.00	2.00
C11-02	032632	183.00	185.22	2.22
C11-02	032633	Au Std		
C11-03	32634	171.20	173.40	2.20
C11-03	32635	173.40	175.70	2.30
C11-03	32636	182.27	184.80	2.53
C11-03	32637	187.80	189.60	1.80
C11-03	32638	189.60	191.70	2.10
C11-03	32639	191.70	193.80	2.10
C11-03	32640	193.80	195.90	2.10
C11-03	32641	195.90	198.00	2.10
C11-03	32642	198.00	200.10	2.10
C11-03	32643	200.10	201.75	1.65
C11-03	32644	201.75	204.50	2.75
C11-03	32645	204.50	206.60	2.10
C11-03	32646	206.60	208.70	2.10
C12-01	32647	54.26	56.30	2.04
C12-01	32648	Cu Std		
C12-01	32649	56.30	58.30	2.00
C12-01	32650	58.30	60.30	2.00
C12-01	32651	60.30	62.30	2.00
C12-01	32652	62.30	64.30	2.00
C12-01	32653	64.30	66.44	2.14
C12-01	32654	66.44	68.44	2.00

DH	Sample ID	From	To	Length (m)
C12-01	32655	68.44	70.44	2.00
C12-01	32656	70.44	73.35	2.91
C12-01	32657	73.35	75.59	2.24
C12-01	32658	76.50	78.50	2.00
C12-01	32659	78.50	80.50	2.00
C12-01	32660	80.50	82.50	2.00
C12-01	32661	82.50	84.50	2.00
C12-01	32662	84.50	86.50	2.00
C12-01	32663	Au Std		
C12-01	32664	86.50	88.50	2.00
C12-01	32665	88.50	90.50	2.00
C12-01	32666	90.50	92.50	2.00
C12-01	32667	92.50	94.50	2.00
C12-01	32668	94.50	96.50	2.00
C12-01	32669	96.50	98.50	2.00
C12-01	32670	98.50	100.50	2.00
C12-01	32671	100.50	102.50	2.00
C12-01	32672	102.50	104.50	2.00
C12-01	32673	104.50	106.50	2.00
C12-01	32674	106.50	108.50	2.00
C12-01	32675	108.50	110.50	2.00
C12-01	32676	110.50	112.50	2.00
C12-01	32677	112.50	114.50	2.00
C12-01	32678	Blank		
C12-01	32679	114.50	116.50	2.00
C12-01	32680	116.50	118.50	2.00
C12-01	32681	118.50	120.50	2.00
C12-01	32682	120.50	122.50	2.00
C12-01	32683	122.50	124.50	2.00
C12-01	32684	124.50	125.88	1.38
C12-02	32685	118.26	120.00	1.74

DH	Sample ID	From	To	Length (m)
C12-02	32686	120.00	122.00	0.00
C12-02	32687	122.00	124.00	2.00
C12-02	32688	124.00	126.00	2.00
C12-02	32689	126.00	128.00	2.00
C12-02	32690	128.00	130.00	2.00
C12-02	32691	130.00	132.30	2.30
C12-02	32692	Duplicate		
C12-02	32693	132.30	135.30	3.00
C12-02	32694	135.30	138.30	3.00
C12-02	32695	138.30	140.30	2.00
C12-02	32696	140.30	142.30	2.00
C12-02	32697	142.30	144.30	2.00
C12-02	32698	144.30	146.30	2.00
C12-02	32699	146.30	148.30	2.00
C12-02	32700	148.30	150.30	2.00
C12-02	32701	150.30	152.30	0.00
C12-02	32702	152.30	154.30	2.00
C12-02	32703	154.30	156.30	2.00
C12-02	32704	156.30	158.30	2.00
C12-02	32705	158.30	160.30	2.00
C12-02	32706	160.30	162.30	2.00
C12-02	32707	162.30	164.30	2.00
C12-02	32708	Cu Std		
C12-02	32709	164.30	166.30	2.00
C12-02	32710	166.30	168.30	2.00
C12-02	32711	168.30	170.30	2.00
C12-02	32712	170.30	172.30	2.00
C12-02	32713	172.30	174.30	2.00
C12-02	32714	174.30	176.30	2.00
C12-02	32715	176.30	178.30	2.00
C12-02	32716	178.30	180.30	0.00

DH	Sample ID	From	To	Length (m)
C12-02	32717	180.30	182.30	2.00
C12-02	32718	182.30	184.30	2.00
C12-02	32719	184.30	186.30	2.00
C12-02	32720	186.30	188.30	2.00
C12-02	32721	188.30	190.30	2.00
C12-02	32722	190.30	192.30	2.00
C12-02	32723	Au Std		
C12-02	32724	192.30	194.30	2.00
C12-02	32725	194.30	196.30	2.00
C12-02	32726	196.30	198.30	2.00
C12-02	32727	198.30	200.30	2.00
C12-02	32728	200.30	202.30	2.00
C12-02	32729	202.30	204.30	2.00
C12-02	32730	204.30	206.30	2.00
C12-02	32731	206.30	208.30	2.00
C12-02	32732	208.30	210.30	2.00
C12-02	32733	210.30	212.30	2.00
C12-02	32734	212.30	214.30	2.00
C12-02	32735	214.30	216.30	2.00
C12-02	32736	216.30	218.30	2.00
C12-02	32737	218.30	220.30	2.00
C12-02	32738	Blank		
C12-02	32739	220.30	222.30	2.00
C12-02	32740	222.30	224.30	2.00
C12-02	32741	224.30	226.30	2.00
C12-02	32742	226.30	228.30	2.00
C12-02	32743	228.30	230.30	2.00
C12-02	32744	230.30	232.30	2.00
C12-02	32745	232.30	234.30	2.00
C12-02	32746	234.30	236.30	2.00
C12-02	32747	236.30	238.30	2.00

DH	Sample ID	From	To	Length (m)
C12-02	32748	238.30	240.30	2.00
C12-02	32749	240.30	242.30	2.00
C12-02	32750	242.30	244.30	2.00
C12-02	32751	244.30	246.30	2.00
C12-02	32752	246.30	248.30	2.00
C12-02	32753	248.30	250.70	2.40
C12-02	32754	250.70	253.70	3.00
C12-02	32755	253.70	255.30	1.60
C12-02	32756	255.30	257.30	2.00
C12-02	32757	257.30	259.30	2.00
C12-02	32758	259.30	261.30	2.00
C12-02	32759	261.30	263.30	2.00
C12-02	32760	263.30	265.30	2.00
C12-02	32761	265.30	267.30	2.00
C12-02	32762	267.30	269.30	2.00
C12-02	32763	269.30	271.30	2.00
C12-02	32764	271.30	273.70	2.40
C12-02	32765	273.70	275.90	2.20
C12-02	32766	275.90	278.10	2.20
C12-02	32767	Cu Std		
C12-02	32768	278.10	280.10	2.00
C12-02	32769	280.10	282.10	2.00
C12-02	32770	282.10	284.10	2.00
C12-02	32771	284.10	286.10	2.00
C12-02	32772	286.10	287.50	1.40
C12-02	32773	287.50	289.50	2.00
C12-02	32774	289.50	291.50	2.00
C12-02	32775	291.50	293.50	2.00
C12-02	32776	293.50	295.50	2.00
C12-02	32777	295.50	297.50	2.00
C12-02	32778	297.50	299.50	2.00

DH	Sample ID	From	To	Length (m)
C12-02	32779	299.50	301.50	2.00
C12-02	32780	301.50	303.50	2.00
C12-02	32781	303.50	305.50	2.00
C12-02	32782	Au Std		
C12-02	32783	305.50	307.50	2.00
C12-02	32784	307.50	309.50	2.00
C12-02	32785	309.50	311.50	2.00
C12-02	32786	311.50	313.50	2.00
C12-02	32787	313.50	315.50	2.00
C12-02	32788	315.50	317.50	2.00
C12-02	32789	317.50	319.50	2.00
C12-02	32790	319.50	321.50	2.00
C12-02	32791	321.50	323.50	2.00
C12-02	32792	323.50	325.50	2.00
C12-02	32793	325.50	327.50	2.00
C12-02	32794	327.50	329.50	2.00
C12-02	32795	329.50	331.50	2.00
C12-02	32796	331.50	333.50	2.00
C12-02	32797	Blank		
C12-02	32798	333.50	335.50	2.00
C12-02	32799	335.50	337.50	2.00
C12-02	32800	337.50	339.50	2.00
C12-02	812351	339.50	341.50	2.00
C12-02	812352	341.50	343.50	2.00
C12-02	812353	343.50	345.50	2.00
C12-02	812354	345.50	347.50	2.00
C12-02	812355	347.50	349.50	2.00
C12-02	812356	349.50	351.50	2.00
C12-02	812357	351.50	353.50	2.00
C12-02	812358	353.50	355.50	2.00
C12-02	812359	355.50	357.50	2.00

DH	Sample ID	From	To	Length (m)
C12-02	812360	357.50	359.50	2.00
C12-02	812361	359.50	361.50	2.00
C12-02	812362	Duplicate		
C12-02	812363	361.50	363.50	2.00
C12-02	812364	363.50	365.50	2.00
C12-02	812365	365.50	367.50	2.00
C12-02	812366	367.50	369.50	2.00
C12-02	812367	369.50	371.50	2.00
C12-02	812368	371.50	373.50	2.00
C12-02	812369	373.50	375.50	2.00
C12-02	812370	375.50	377.50	2.00
C12-02	812371	377.50	379.50	2.00
C12-02	812372	379.50	381.50	2.00
C12-02	812373	381.50	383.50	2.00
C12-02	812374	383.50	385.50	2.00
C12-02	812375	385.50	387.50	2.00
C12-02	812376	387.50	389.50	2.00
C12-02	812377	Cu Std		
C12-02	812378	389.50	391.50	2.00
C12-02	812379	391.50	393.50	2.00
C12-02	812380	393.50	395.50	2.00
C12-02	812381	395.50	397.50	2.00
C12-02	812382	397.50	399.50	2.00
C12-02	812383	399.50	401.50	2.00
C12-02	812384	401.50	403.50	2.00
C12-02	812385	403.50	405.50	2.00
C12-02	812386	405.50	407.50	2.00
C12-02	812387	407.50	409.50	2.00
C12-02	812388	409.50	411.50	2.00
C12-02	812389	411.50	413.50	2.00
C12-02	812390	413.50	415.50	2.00

DH	Sample ID	From	To	Length (m)
C12-02	812391	415.50	417.50	2.00
C12-02	812392	Au Std		
C12-02	812393	417.50	419.50	2.00
C12-02	812394	419.50	421.50	2.00
C12-02	812395	421.50	423.50	2.00
C12-02	812396	423.50	425.50	2.00
C12-02	812397	425.50	427.20	1.70
C12-02	812398	427.20	429.20	2.00
C12-02	812399	429.20	431.60	2.40
C12-02	812400	431.60	432.60	1.00
C12-02	812401	432.60	434.60	2.00
C12-02	812402	434.60	436.60	2.00
C12-02	812403	436.60	438.60	2.00
C12-02	812404	438.60	440.60	2.00
C12-02	812405	440.60	442.60	2.00
C12-02	812406	442.60	444.60	2.00
C12-02	812407	Blank		
C12-02	812408	444.60	446.60	2.00
C12-02	812409	446.60	448.60	2.00
C12-02	812410	448.60	450.60	2.00
C12-02	812411	450.60	452.60	2.00
C12-02	812412	452.60	454.60	2.00
C12-02	812413	454.60	456.60	2.00
C12-02	812414	456.60	458.60	2.00
C12-02	812415	458.60	460.60	2.00
C12-02	812416	460.60	462.60	2.00
C12-02	812417	462.60	464.60	2.00
C12-02	812418	464.60	466.60	2.00
C12-02	812419	466.60	468.60	2.00
C12-02	812420	468.60	470.60	2.00
C12-02	812421	470.60	472.60	2.00
C12-02	812422	Duplicate		
C12-02	812423	472.60	474.60	2.00
C12-02	812424	474.60	476.60	2.00
C12-02	812425	476.60	478.60	2.00
C12-02	812426	478.60	480.60	2.00
C12-02	812427	480.60	482.60	2.00
C12-02	812428	482.60	484.60	2.00
C12-02	812429	484.60	486.60	2.00
C12-02	812430	486.60	488.60	2.00
C12-02	812431	488.60	490.60	2.00
C12-02	812432	490.60	492.60	2.00
C12-02	812433	492.60	494.60	2.00
C12-02	812434	494.60	496.90	2.30
C12-02	812435	496.90	499.26	2.36

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Submitted By: Ross Zawada
Receiving Lab: Canada-Smithers
Received: December 12, 2011
Report Date: January 19, 2012

CERTIFICATE OF ANALYSIS SMI11000848.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 67

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT Store After 90 days Invoice for Storage

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	64	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1DX2	67	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
G6Gr	17	Lead collection fire assay 30G fusion - Grav finish	30	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Orestone Mining Corp.
750-625 Howe St.
Vancouver BC V4A 9T8
Canada

CC: Gary Nordin

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Phone (604) 253-3158 Fax (604) 253-1716
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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: None Given
Report Date: January 19, 2012

CERTIFICATE OF ANALYSIS SMI11000848.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
32528	Drill Core	7.69	0.1	10.3	4.2	75	<0.1	14.5	19.5	1582	4.85	<0.5	15.3	0.6	586	<0.1	0.3	<0.1	151	4.97	0.149
32529	Drill Core	7.94	0.2	51.7	4.9	72	<0.1	13.9	18.3	1733	4.66	<0.5	31.9	0.6	939	<0.1	0.2	<0.1	139	5.03	0.142
32530	Drill Core	8.84	0.5	347.5	7.2	157	0.4	10.2	14.3	1247	4.15	1.5	433.5	1.2	959	0.6	0.4	<0.1	83	3.36	0.137
32531	Drill Core	9.91	1.3	811.1	17.5	201	0.7	8.8	19.7	1108	5.14	10.4	294.1	1.8	692	0.4	1.0	<0.1	49	2.23	0.230
32532	Drill Core	10.90	1.6	587.4	20.4	188	0.8	9.0	19.5	1487	5.20	26.3	165.4	1.6	882	0.4	1.0	<0.1	56	3.71	0.188
32533	Drill Core	6.27	2.5	312.9	15.9	68	0.5	8.8	17.6	1104	3.87	29.5	132.8	1.0	429	0.1	1.2	0.3	39	4.29	0.159
32535	Rock Pulp	0.15	279.6	2936	9.2	56	1.1	22.7	10.7	443	3.05	5.3	298.4	1.6	38	0.2	2.3	0.2	59	0.83	0.062
32538	Drill Core	5.01	0.5	441.7	9.6	92	0.3	24.7	42.9	909	7.17	3.0	140.4	1.4	189	<0.1	1.3	<0.1	147	2.07	0.265
32539	Drill Core	4.44	0.5	373.8	8.4	111	0.3	32.0	48.3	902	7.23	9.5	87.1	1.5	203	<0.1	0.9	<0.1	167	2.55	0.241
32540	Drill Core	4.80	0.4	525.0	10.1	138	0.3	32.2	42.7	1062	5.91	10.6	140.1	1.3	856	<0.1	3.9	<0.1	131	3.15	0.239
32541	Drill Core	5.44	0.8	1389	12.3	153	0.9	19.4	41.0	1565	7.28	56.5	495.0	1.2	141	0.2	17.2	<0.1	100	2.92	0.213
32542	Drill Core	3.10	0.9	1610	13.8	171	0.9	20.4	35.4	1883	7.68	69.4	869.3	0.7	140	0.3	14.8	0.1	131	5.12	0.164
32543	Drill Core	4.80	2.0	1279	6.8	131	0.8	11.5	18.7	1976	5.50	4.5	385.5	0.6	259	0.2	0.8	<0.1	236	4.14	0.226
32544	Drill Core	4.13	2.4	1491	7.9	74	1.1	12.7	19.1	1176	4.31	4.2	146.9	0.7	871	0.1	0.9	0.1	138	1.89	0.245
32545	Drill Core	2.83	0.7	1211	7.7	102	0.9	12.4	21.6	2185	5.51	4.7	135.2	0.7	547	0.3	0.9	<0.1	202	4.04	0.227
32546	Drill Core	3.81	1.3	1629	8.9	159	1.1	13.9	24.3	1318	6.16	8.9	730.6	0.9	187	0.2	1.1	<0.1	264	3.29	0.216
32547	Drill Core	4.26	1.9	1352	11.6	144	1.0	16.4	27.5	1673	6.02	7.8	237.5	0.7	181	0.4	2.9	0.3	93	4.78	0.210
32548	Drill Core	4.05	2.5	681.6	15.2	142	0.7	26.6	34.5	1566	7.18	6.8	479.9	0.9	425	0.2	0.8	0.2	204	2.64	0.205
32549	Drill Core	4.19	2.6	655.8	15.4	108	0.6	26.2	41.2	1235	5.54	7.7	115.0	0.9	376	0.4	0.8	<0.1	164	2.19	0.182
32550	Rock Pulp	0.11	13.9	34.9	15.6	19	0.5	11.8	6.7	47	3.12	457.1	257.1	0.7	24	0.3	22.0	<0.1	10	0.96	0.005
32551	Drill Core	4.39	2.3	1212	18.6	101	0.8	20.2	38.8	1472	7.33	13.6	167.3	0.8	569	0.3	0.9	0.2	178	1.98	0.252
32552	Drill Core	5.04	3.2	857.9	19.5	177	0.9	24.3	36.2	1426	6.97	17.9	280.6	1.1	440	0.3	0.9	0.3	195	3.46	0.214
32553	Drill Core	4.42	1.1	394.5	9.4	172	0.5	19.3	30.2	1933	5.05	14.5	307.3	0.7	207	0.2	0.6	<0.1	199	4.92	0.173
32554	Drill Core	4.60	0.9	187.1	4.7	138	0.1	55.9	27.5	1504	5.90	9.2	93.1	0.6	184	0.1	0.4	<0.1	196	4.17	0.209
32555	Drill Core	3.81	1.4	234.1	9.7	189	0.4	21.7	33.2	1954	6.96	12.2	124.6	0.7	209	0.2	0.8	<0.1	229	4.10	0.192
32556	Drill Core	4.66	0.6	428.5	16.2	176	0.5	16.2	30.3	2909	7.53	22.6	211.0	1.0	183	0.2	11.1	<0.1	184	6.64	0.168
32557	Drill Core	3.30	0.2	249.6	11.5	134	0.3	10.1	21.7	2454	5.64	19.0	179.4	0.5	152	0.3	7.0	<0.1	104	8.92	0.104
32558	Drill Core	5.08	<0.1	299.9	9.7	163	0.2	13.3	24.3	3294	6.71	7.0	167.0	1.0	176	0.4	1.0	<0.1	177	5.38	0.168
32559	Drill Core	4.64	0.2	320.3	9.8	174	0.2	15.8	28.0	3318	6.57	14.0	243.4	1.1	223	0.3	0.7	<0.1	186	3.99	0.181
32560	Drill Core	5.07	0.3	328.7	12.4	142	0.2	16.3	30.2	3247	5.76	10.9	222.7	1.1	1297	0.3	1.0	<0.1	161	5.31	0.197

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: None Given
Report Date: January 19, 2012

CERTIFICATE OF ANALYSIS SMI11000848.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	G6Gr
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
32528	Drill Core	12	26	1.54	203	0.015	1	1.70	0.037	0.19	<0.1	0.10	8.5	<0.1	<0.05	9	<0.5	<0.2	
32529	Drill Core	11	24	1.44	277	0.014	1	1.71	0.037	0.17	<0.1	0.07	8.0	<0.1	<0.05	8	<0.5	<0.2	
32530	Drill Core	11	16	0.92	229	0.008	2	1.55	0.041	0.29	<0.1	0.38	4.4	<0.1	0.69	6	<0.5	<0.2	<0.9
32531	Drill Core	10	6	1.00	44	0.004	5	1.82	0.035	0.41	<0.1	0.66	4.0	0.1	3.37	5	2.7	0.4	<0.9
32532	Drill Core	11	8	1.36	54	0.006	5	2.07	0.039	0.37	<0.1	0.46	4.4	0.1	2.57	5	1.5	0.6	
32533	Drill Core	8	6	0.76	57	0.002	4	0.86	0.025	0.30	0.3	0.23	4.5	<0.1	2.37	2	1.3	0.3	
32535	Rock Pulp	6	28	0.71	120	0.129	3	1.43	0.087	0.20	10.9	0.04	4.6	<0.1	0.41	5	0.9	<0.2	<0.9
32538	Drill Core	10	27	0.98	270	0.004	2	1.44	0.039	0.35	0.2	0.09	8.8	<0.1	0.33	5	<0.5	<0.2	
32539	Drill Core	11	50	1.33	187	0.009	3	1.60	0.048	0.34	0.1	0.07	10.8	<0.1	0.37	6	<0.5	<0.2	
32540	Drill Core	8	68	1.37	264	0.005	3	1.19	0.031	0.42	0.1	0.10	12.0	<0.1	0.53	3	0.5	<0.2	
32541	Drill Core	8	17	1.19	74	0.002	4	0.78	0.023	0.40	0.3	0.31	11.6	0.1	1.99	2	1.3	<0.2	<0.9
32542	Drill Core	6	25	2.29	53	0.005	2	1.00	0.025	0.25	0.6	0.40	12.4	<0.1	2.72	4	1.7	<0.2	<0.9
32543	Drill Core	8	29	2.30	69	0.009	2	1.74	0.051	0.10	0.3	0.24	17.6	<0.1	2.11	9	0.8	<0.2	<0.9
32544	Drill Core	7	21	1.18	41	0.012	2	0.87	0.054	0.23	0.3	0.32	14.2	<0.1	2.71	5	2.2	<0.2	
32545	Drill Core	9	30	1.89	57	0.037	<1	0.68	0.061	0.10	0.6	0.35	20.4	<0.1	2.62	6	1.7	<0.2	
32546	Drill Core	8	32	1.52	90	0.041	2	1.34	0.060	0.29	0.4	0.24	16.6	<0.1	2.05	8	0.6	<0.2	<0.9
32547	Drill Core	6	14	1.76	52	0.003	3	0.84	0.037	0.29	0.4	0.50	13.2	<0.1	2.78	3	3.6	<0.2	<0.9
32548	Drill Core	8	37	1.57	54	0.014	1	1.24	0.058	0.21	0.2	0.25	17.5	<0.1	3.08	8	2.7	<0.2	<0.9
32549	Drill Core	9	35	1.25	34	0.006	1	0.97	0.054	0.16	0.1	0.31	16.9	<0.1	3.42	6	3.5	<0.2	
32550	Rock Pulp	1	17	0.03	906	0.009	1	0.18	0.010	0.07	27.9	3.09	0.7	13.4	0.11	<1	1.1	<0.2	<0.9
32551	Drill Core	8	29	1.18	30	0.015	<1	1.12	0.058	0.12	0.4	0.34	17.7	0.1	4.38	6	2.2	<0.2	
32552	Drill Core	10	34	1.44	57	0.007	3	1.91	0.056	0.26	0.1	0.34	12.7	0.1	3.11	9	2.1	<0.2	<0.9
32553	Drill Core	8	39	2.65	137	0.004	1	2.59	0.020	0.12	0.1	0.23	16.7	<0.1	1.27	10	1.1	<0.2	<0.9
32554	Drill Core	6	205	2.86	208	0.037	3	2.79	0.041	0.57	0.2	0.18	18.2	<0.1	0.62	10	0.6	<0.2	
32555	Drill Core	7	36	3.10	61	0.002	2	3.02	0.028	0.09	0.1	0.28	17.8	<0.1	2.51	11	1.5	<0.2	
32556	Drill Core	6	23	3.92	55	0.002	3	2.13	0.029	0.24	0.3	0.34	19.1	<0.1	2.24	7	0.7	<0.2	<0.9
32557	Drill Core	3	14	4.10	84	0.001	2	0.74	0.023	0.22	0.5	0.34	11.4	<0.1	1.39	2	1.3	0.2	
32558	Drill Core	7	22	5.67	93	0.017	3	2.70	0.030	0.18	0.2	0.41	16.2	<0.1	1.60	9	0.8	<0.2	
32559	Drill Core	8	21	5.73	88	0.015	2	3.01	0.032	0.12	0.1	0.47	15.7	<0.1	1.67	12	0.7	0.2	<0.9
32560	Drill Core	8	16	4.25	69	0.037	3	2.03	0.038	0.28	<0.1	0.35	16.1	<0.1	1.86	8	0.7	<0.2	<0.9

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: None Given
Report Date: January 19, 2012

CERTIFICATE OF ANALYSIS SMI11000848.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
32561	Drill Core	5.21	2.4	322.0	11.6	98	0.3	11.8	27.4	2366	4.79	18.9	141.7	1.1	132	0.2	4.1	<0.1	113	5.95	0.191
32562	Drill Core	4.86	1.3	326.8	16.1	81	0.4	14.6	31.0	2233	4.79	10.2	114.8	0.8	240	0.2	1.9	<0.1	68	8.63	0.145
32563	Drill Core	4.44	5.2	327.6	13.1	97	0.5	8.8	25.0	1693	4.29	14.3	142.9	0.8	173	0.2	4.1	<0.1	74	7.31	0.134
32564	Drill Core	2.17	2.6	619.4	9.7	75	0.4	8.2	11.2	1140	4.00	11.5	146.8	0.9	117	0.1	15.0	<0.1	59	5.12	0.097
32565	Drill Core	1.92	2.5	619.5	9.8	83	0.4	6.4	11.0	1255	3.97	11.2	164.0	0.9	130	0.2	13.4	<0.1	59	5.58	0.087
32566	Drill Core	4.57	2.7	753.1	15.4	100	0.5	11.9	16.9	1161	4.66	18.2	204.3	1.8	202	0.2	23.4	0.1	50	4.67	0.193
32567	Drill Core	4.75	3.5	235.2	8.0	120	0.2	5.0	10.2	1609	3.79	11.2	93.5	0.7	350	0.2	20.9	<0.1	36	6.36	0.087
32568	Drill Core	4.75	3.0	266.9	7.7	86	0.3	5.5	13.2	1521	2.77	10.4	67.1	1.4	178	0.2	8.2	0.3	46	5.64	0.102
32569	Drill Core	4.18	1.6	188.6	7.3	62	0.2	6.8	21.0	1467	3.04	10.6	56.2	1.2	108	0.2	7.2	0.2	73	5.00	0.105
32570	Drill Core	4.49	1.9	386.5	6.5	92	0.2	8.4	16.0	1604	3.00	20.7	87.8	0.9	161	0.2	18.8	<0.1	122	6.07	0.158
32571	Drill Core	5.44	1.5	435.3	17.7	111	0.4	17.8	30.4	1708	5.38	10.2	155.8	1.1	316	0.3	3.9	<0.1	88	4.98	0.210
32572	Drill Core	4.64	2.0	469.8	15.6	66	0.4	12.9	23.3	1172	4.49	11.1	136.5	1.4	152	0.1	3.3	0.9	89	3.89	0.118
32573	Drill Core	3.31	3.3	472.4	14.8	56	0.5	8.3	16.1	1202	4.37	16.9	124.4	0.6	191	0.2	13.8	1.8	52	4.45	0.100
32574	Drill Core	4.99	2.3	507.1	25.1	70	0.5	20.0	28.9	1535	4.97	12.3	176.5	1.1	201	0.2	2.7	1.0	76	4.20	0.186
32575	Drill Core	4.83	12.4	266.0	128.8	109	3.6	18.6	36.6	3781	6.41	27.9	553.4	1.1	897	1.4	1.9	1.6	68	8.15	0.133
32576	Drill Core	4.16	2.8	197.6	13.0	99	0.6	6.3	20.3	2598	4.77	13.4	145.1	2.0	625	0.4	2.2	0.2	122	5.56	0.179
32577	Drill Core	4.01	2.3	394.9	10.3	104	0.4	7.1	15.6	1991	3.65	14.2	27.0	1.0	293	0.2	5.4	0.2	120	5.31	0.168
32578	Drill Core	4.52	4.7	459.8	9.3	74	0.3	5.8	12.8	1347	2.80	19.9	42.8	1.1	337	0.1	13.9	0.4	103	4.98	0.166
32579	Drill Core	4.76	5.0	387.0	7.7	86	0.2	5.8	10.9	1928	3.87	10.2	44.9	0.8	370	0.1	12.8	<0.1	58	6.87	0.134
32580	Rock Pulp	0.14	2.3	23.5	2.3	42	0.3	20.4	8.9	379	2.35	4.3	1.3	0.9	32	0.2	0.3	<0.1	54	0.75	0.058
32581	Drill Core	4.10	2.5	296.1	7.1	95	0.2	7.9	9.9	1738	3.25	7.6	57.3	1.8	1155	<0.1	1.9	0.1	103	4.99	0.247
32582	Drill Core	4.72	2.2	230.8	8.2	128	0.2	6.2	4.9	1712	3.42	4.7	104.9	1.4	184	<0.1	1.1	<0.1	109	4.61	0.324
32583	Drill Core	5.12	3.1	181.5	5.7	115	0.1	2.9	2.5	2433	3.48	3.0	53.0	1.6	182	<0.1	0.6	0.1	67	5.81	0.098
32584	Drill Core	3.36	2.4	217.4	12.5	98	0.3	3.8	7.3	1959	4.50	8.4	103.3	1.0	220	0.3	5.9	<0.1	66	5.85	0.122
32585	Drill Core	4.59	2.8	150.9	13.1	92	0.2	13.1	19.4	1858	4.36	8.7	46.4	1.0	683	<0.1	1.2	0.2	95	4.40	0.182
32586	Drill Core	2.94	1.7	133.6	15.8	96	0.2	5.9	20.1	1389	4.63	8.5	43.8	1.4	346	<0.1	1.2	<0.1	110	3.44	0.172
32587	Drill Core	3.49	1.6	141.6	15.4	76	0.2	8.7	20.4	1359	4.87	7.1	40.1	1.5	167	0.1	1.1	0.1	129	3.44	0.170
32588	Drill Core	4.44	3.8	110.8	15.6	56	0.3	8.1	19.9	1036	4.37	8.0	51.5	1.3	189	0.1	1.5	0.2	64	4.34	0.153
32589	Drill Core	6.64	0.7	34.6	12.8	75	<0.1	7.2	10.0	1586	3.14	5.3	25.7	0.5	482	0.2	0.9	<0.1	59	6.57	0.103
32590	Drill Core	4.65	0.2	38.7	7.9	54	<0.1	8.4	11.3	1265	3.09	2.4	15.4	0.6	1803	<0.1	1.2	<0.1	77	4.59	0.107

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Project: None Given
Report Date: January 19, 2012

CERTIFICATE OF ANALYSIS SMI11000848.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	G6Gr
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
32561	Drill Core	6	9	2.23	55	0.010	4	0.87	0.033	0.40	0.1	0.32	15.7	<0.1	2.12	2	1.3	0.3	
32562	Drill Core	5	7	2.04	57	0.002	3	0.62	0.028	0.29	0.3	0.44	8.7	0.1	2.43	2	1.0	<0.2	
32563	Drill Core	6	8	1.76	80	0.003	4	0.66	0.025	0.38	0.1	0.52	5.9	0.1	2.37	2	0.8	<0.2	
32564	Drill Core	5	8	1.95	57	0.002	3	0.36	0.022	0.19	0.3	0.86	10.0	<0.1	2.10	1	<0.5	<0.2	
32565	Drill Core	6	9	2.17	68	0.001	3	0.36	0.022	0.19	0.3	0.89	9.0	<0.1	1.99	1	0.6	<0.2	
32566	Drill Core	7	7	1.37	43	0.004	4	0.68	0.036	0.31	0.4	1.45	7.9	<0.1	3.04	2	1.5	0.3	<0.9
32567	Drill Core	4	5	2.38	57	0.001	3	0.35	0.023	0.22	0.2	0.95	4.6	0.2	1.46	<1	0.6	0.2	
32568	Drill Core	5	8	2.21	110	0.002	4	0.36	0.021	0.19	0.1	0.39	16.6	<0.1	1.22	<1	0.9	<0.2	
32569	Drill Core	4	5	1.91	159	0.001	3	0.40	0.026	0.25	0.2	0.21	9.6	<0.1	1.10	1	1.2	<0.2	
32570	Drill Core	7	8	2.61	157	0.001	6	0.69	0.038	0.36	0.2	0.14	10.7	<0.1	0.90	2	1.1	<0.2	
32571	Drill Core	7	8	1.99	44	0.019	4	1.02	0.048	0.49	0.2	0.63	11.7	0.1	3.25	2	0.9	0.4	
32572	Drill Core	4	7	1.50	30	0.001	4	0.68	0.034	0.32	0.2	0.34	13.4	0.2	3.02	2	2.9	0.9	
32573	Drill Core	3	4	1.70	32	0.001	2	0.43	0.028	0.27	0.1	0.42	4.9	0.1	3.29	1	3.8	0.8	
32574	Drill Core	7	8	1.71	44	0.008	4	0.79	0.050	0.42	0.5	0.50	11.9	0.2	3.62	3	3.4	0.7	
32575	Drill Core	9	12	3.87	41	0.006	2	0.31	0.024	0.19	0.4	2.18	9.6	0.2	4.47	1	5.5	3.9	<0.9
32576	Drill Core	11	6	3.19	113	0.015	4	1.35	0.031	0.45	0.2	0.47	15.2	0.2	1.68	6	1.7	0.7	
32577	Drill Core	7	7	2.60	178	0.037	6	1.23	0.033	0.84	<0.1	0.24	14.9	0.3	1.07	7	1.8	0.5	
32578	Drill Core	5	11	2.18	154	0.008	5	0.99	0.036	0.55	0.2	0.18	13.5	0.2	1.06	3	2.7	0.5	
32579	Drill Core	6	6	2.49	72	0.002	3	0.46	0.029	0.23	0.2	0.23	11.1	<0.1	1.50	1	1.3	0.4	
32580	Rock Pulp	4	30	0.74	93	0.115	3	1.47	0.071	0.12	11.7	0.01	4.2	<0.1	<0.05	5	<0.5	<0.2	
32581	Drill Core	11	11	2.29	120	0.014	8	1.56	0.050	0.61	<0.1	0.30	21.3	0.1	1.43	5	1.9	0.6	
32582	Drill Core	11	17	2.56	122	0.014	8	1.89	0.062	0.70	0.1	0.48	9.3	0.2	1.58	5	3.4	1.0	
32583	Drill Core	8	13	3.89	188	0.017	2	1.46	0.030	0.22	0.1	0.40	31.7	<0.1	1.16	3	1.8	0.3	
32584	Drill Core	7	8	2.56	43	0.002	5	0.44	0.028	0.19	0.2	0.46	13.4	<0.1	2.88	1	2.6	0.6	
32585	Drill Core	8	32	2.00	84	0.003	3	1.65	0.050	0.25	0.2	0.50	7.3	<0.1	2.05	6	0.9	0.6	
32586	Drill Core	8	17	1.86	72	0.008	2	1.91	0.051	0.16	0.1	0.39	5.7	<0.1	2.40	9	0.7	0.4	
32587	Drill Core	9	22	2.04	65	0.007	2	1.95	0.051	0.14	0.1	0.33	6.8	<0.1	2.63	9	1.2	0.3	
32588	Drill Core	5	11	2.26	57	0.001	3	1.15	0.042	0.24	0.1	0.19	5.1	<0.1	2.77	4	2.0	0.4	
32589	Drill Core	5	7	3.10	247	0.002	3	0.44	0.047	0.26	0.3	0.07	4.7	<0.1	0.79	1	0.5	<0.2	
32590	Drill Core	6	11	1.89	476	0.005	2	0.46	0.049	0.25	0.6	0.03	5.0	<0.1	0.29	2	0.6	<0.2	

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AcmeLabs Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: None Given
Report Date: January 19, 2012

CERTIFICATE OF ANALYSIS SMI11000848.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
32591	Drill Core	5.00	0.4	135.5	6.2	40	0.1	9.9	13.0	1046	2.98	2.8	28.6	0.7	313	<0.1	1.4	<0.1	80	3.75	0.138
32592	Drill Core	4.63	0.4	163.1	6.9	47	0.1	14.0	17.8	1068	3.57	1.8	31.8	0.9	263	<0.1	0.9	<0.1	107	3.75	0.153
32593	Drill Core	5.23	3.1	283.6	5.2	61	0.2	15.1	21.1	1184	3.87	4.9	36.9	0.8	216	<0.1	1.3	<0.1	189	3.08	0.167
32594	Drill Core	5.54	3.8	427.2	5.1	55	0.3	13.4	24.5	1210	5.19	8.8	70.6	1.0	355	<0.1	0.5	<0.1	193	3.59	0.242
32595	Drill Core	4.90	3.4	242.3	5.0	63	0.2	25.6	36.3	1277	4.36	10.1	64.3	0.9	265	0.1	0.5	<0.1	162	3.99	0.199
32596	Drill Core	5.73	0.6	162.6	4.8	81	0.2	12.4	29.1	1373	5.31	5.8	37.7	1.3	163	<0.1	0.7	<0.1	139	4.39	0.216
32597	Drill Core	3.61	1.6	197.5	3.2	70	0.2	10.4	17.6	1330	3.92	7.6	39.7	0.9	193	0.1	0.7	<0.1	131	4.52	0.189

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: None Given
Report Date: January 19, 2012

CERTIFICATE OF ANALYSIS SMI11000848.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	G6Gr
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
32591	Drill Core	7	16	1.41	171	0.006	3	0.92	0.060	0.27	0.5	0.11	6.1	<0.1	0.78	4	0.6	0.3	
32592	Drill Core	10	21	1.30	135	0.008	2	1.18	0.055	0.22	0.1	0.18	6.4	<0.1	1.10	6	1.1	0.3	
32593	Drill Core	11	33	2.23	97	0.012	3	1.96	0.058	0.14	<0.1	0.04	10.7	<0.1	0.91	9	1.9	<0.2	
32594	Drill Core	10	35	2.33	95	0.005	4	2.40	0.062	0.18	<0.1	0.04	13.9	<0.1	2.61	10	2.6	<0.2	
32595	Drill Core	10	36	2.26	106	0.005	2	2.39	0.057	0.18	<0.1	0.08	12.4	<0.1	1.76	10	2.1	<0.2	
32596	Drill Core	12	12	2.21	64	0.011	3	2.68	0.051	0.19	<0.1	0.14	7.4	<0.1	0.96	11	0.5	<0.2	
32597	Drill Core	10	24	2.23	97	0.006	2	2.38	0.041	0.16	<0.1	0.07	8.5	<0.1	0.80	10	1.1	<0.2	

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: None Given
Report Date: January 19, 2012

QUALITY CONTROL REPORT SMI11000848.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
32528	Drill Core	7.69	0.1	10.3	4.2	75	<0.1	14.5	19.5	1582	4.85	<0.5	15.3	0.6	586	<0.1	0.3	<0.1	151	4.97	0.149
REP 32528	QC		<0.1	9.9	3.8	71	<0.1	14.1	19.0	1561	4.70	<0.5	9.3	0.6	542	<0.1	0.3	<0.1	149	4.88	0.146
32547	Drill Core	4.26	1.9	1352	11.6	144	1.0	16.4	27.5	1673	6.02	7.8	237.5	0.7	181	0.4	2.9	0.3	93	4.78	0.210
REP 32547	QC		2.0	1387	11.6	144	0.9	16.4	26.7	1709	5.85	7.3	232.6	0.7	186	0.3	2.9	0.3	89	4.88	0.206
32565	Drill Core	1.92	2.5	619.5	9.8	83	0.4	6.4	11.0	1255	3.97	11.2	164.0	0.9	130	0.2	13.4	<0.1	59	5.58	0.087
REP 32565	QC		2.6	627.0	9.6	83	0.4	6.6	11.1	1263	4.00	10.8	173.5	0.9	128	0.2	13.5	<0.1	60	5.63	0.085
32597	Drill Core	3.61	1.6	197.5	3.2	70	0.2	10.4	17.6	1330	3.92	7.6	39.7	0.9	193	0.1	0.7	<0.1	131	4.52	0.189
REP 32597	QC		1.9	233.6	3.9	77	0.2	11.9	20.9	1552	4.59	9.1	45.7	1.1	234	0.1	0.7	<0.1	153	5.18	0.219
Core Reject Duplicates																					
32556	Drill Core	4.66	0.6	428.5	16.2	176	0.5	16.2	30.3	2909	7.53	22.6	211.0	1.0	183	0.2	11.1	<0.1	184	6.64	0.168
DUP 32556	QC		0.5	397.6	15.4	166	0.4	14.9	28.9	2841	7.08	20.7	200.0	0.8	176	0.3	10.9	<0.1	173	6.60	0.162
32591	Drill Core	5.00	0.4	135.5	6.2	40	0.1	9.9	13.0	1046	2.98	2.8	28.6	0.7	313	<0.1	1.4	<0.1	80	3.75	0.138
DUP 32591	QC		0.4	133.5	6.1	40	0.1	9.5	12.1	1024	2.88	2.8	25.7	0.7	345	<0.1	1.3	<0.1	76	3.63	0.134
Reference Materials																					
STD AGPROOF	Standard																				
STD DS8	Standard		11.9	106.5	122.6	295	1.5	34.5	6.9	581	2.48	23.2	171.8	6.6	57	1.9	5.1	5.6	40	0.68	0.076
STD DS8	Standard		12.8	108.0	118.7	304	1.8	36.7	7.2	600	2.49	24.3	123.7	6.1	65	2.1	5.1	6.3	43	0.68	0.080
STD SP49	Standard																				
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
STD SP49 Expected																					
STD AGPROOF Expected																					
BLK	Blank		<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	0.4	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	1.9	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
G1	Prep Blank		0.2	2.3	2.7	45	<0.1	3.5	4.1	535	1.94	<0.5	2.4	4.5	68	<0.1	<0.1	<0.1	37	0.49	0.078
G1	Prep Blank		0.2	2.4	2.8	45	<0.1	3.7	4.0	531	1.97	<0.5	<0.5	4.3	64	<0.1	<0.1	<0.1	37	0.47	0.075

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: None Given
Report Date: January 19, 2012

QUALITY CONTROL REPORT SMI11000848.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	G6Gr
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
Pulp Duplicates																			
32528	Drill Core	12	26	1.54	203	0.015	1	1.70	0.037	0.19	<0.1	0.10	8.5	<0.1	<0.05	9	<0.5	<0.2	
REP 32528	QC	11	25	1.49	197	0.015	<1	1.68	0.036	0.19	<0.1	0.11	8.2	<0.1	<0.05	8	<0.5	<0.2	
32547	Drill Core	6	14	1.76	52	0.003	3	0.84	0.037	0.29	0.4	0.50	13.2	<0.1	2.78	3	3.6	<0.2	<0.9
REP 32547	QC	6	14	1.71	49	0.003	2	0.84	0.036	0.27	0.5	0.46	13.6	<0.1	2.83	3	3.8	<0.2	
32565	Drill Core	6	9	2.17	68	0.001	3	0.36	0.022	0.19	0.3	0.89	9.0	<0.1	1.99	1	0.6	<0.2	
REP 32565	QC	5	8	2.19	64	0.001	3	0.36	0.023	0.19	0.2	0.87	9.8	<0.1	2.00	1	1.4	<0.2	
32597	Drill Core	10	24	2.23	97	0.006	2	2.38	0.041	0.16	<0.1	0.07	8.5	<0.1	0.80	10	1.1	<0.2	
REP 32597	QC	12	27	2.60	109	0.006	2	2.82	0.051	0.19	<0.1	0.13	9.7	<0.1	0.94	11	1.0	<0.2	
Core Reject Duplicates																			
32556	Drill Core	6	23	3.92	55	0.002	3	2.13	0.029	0.24	0.3	0.34	19.1	<0.1	2.24	7	0.7	<0.2	<0.9
DUP 32556	QC	6	21	3.74	51	0.002	2	2.01	0.028	0.22	0.3	0.34	17.7	<0.1	2.20	7	0.9	0.4	
32591	Drill Core	7	16	1.41	171	0.006	3	0.92	0.060	0.27	0.5	0.11	6.1	<0.1	0.78	4	0.6	0.3	
DUP 32591	QC	7	16	1.36	170	0.006	2	0.85	0.058	0.25	0.5	0.14	5.7	<0.1	0.76	3	0.9	0.5	
Reference Materials																			
STD AGPROOF	Standard																		<0.9
STD DS8	Standard	13	108	0.59	265	0.114	4	0.90	0.087	0.41	3.0	0.22	2.3	5.4	0.16	5	4.8	5.6	
STD DS8	Standard	15	115	0.59	282	0.120	2	0.91	0.090	0.41	2.9	0.22	2.6	5.3	0.16	4	5.1	4.7	
STD SP49	Standard																		18.4
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5	
STD SP49 Expected																			18.34
STD AGPROOF Expected																			0
BLK	Blank	<1	1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank																		<0.9
BLK	Blank																		<0.9
Prep Wash																			
G1	Prep Blank	10	12	0.54	213	0.124	2	1.01	0.111	0.50	<0.1	<0.01	2.8	0.3	<0.05	5	<0.5	<0.2	
G1	Prep Blank	10	11	0.52	219	0.124	<1	1.01	0.114	0.50	<0.1	<0.01	2.9	0.3	<0.05	5	<0.5	<0.2	

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Submitted By:	Ross Zawada
Receiving Lab:	Canada-Smithers
Received:	December 22, 2011
Report Date:	January 30, 2012
Page:	1 of 3

CERTIFICATE OF ANALYSIS SMI11000849.1

CLIENT JOB INFORMATION

Project:	CAPTAIN
Shipment ID:	Cap 2011-02
P.O. Number	
Number of Samples:	36

SAMPLE DISPOSAL

STOR-PLP	Store After 90 days Invoice for Storage
STOR-RJT	Store After 90 days Invoice for Storage

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	33	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1DX2	36	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
G6Gr	1	Lead collection fire assay 30G fusion - Grav finish	30	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Orestone Mining Corp.
750-625 Howe St.
Vancouver BC V4A 9T8
Canada

CC: Gary Nordin

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: January 30, 2012

CERTIFICATE OF ANALYSIS SMI11000849.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
32598	Drill Core	7.23	11.8	215.2	4.9	62	0.2	14.0	19.2	731	3.93	2.8	4.5	2.0	391	0.2	0.4	0.4	113	2.16	0.200
32599	Drill Core	7.82	44.9	254.2	4.5	75	0.3	18.6	22.9	859	4.57	2.7	11.0	1.9	399	<0.1	0.3	0.2	164	2.67	0.246
32600	Drill Core	6.73	5.0	136.3	7.6	65	0.2	23.4	22.9	977	4.28	4.3	5.8	1.3	238	<0.1	0.4	<0.1	150	3.57	0.205
32601	Drill Core	7.61	4.1	171.0	4.9	35	0.3	8.1	16.7	808	3.74	3.6	<0.5	3.0	238	<0.1	0.6	0.2	83	1.71	0.181
32602	Drill Core	5.90	5.9	208.3	15.9	434	0.5	9.6	17.3	875	4.32	14.3	58.4	2.7	276	2.3	0.9	0.2	104	2.91	0.160
32603	Drill Core	7.09	8.4	178.9	7.5	50	0.4	17.8	23.7	810	4.49	7.9	13.3	2.5	348	<0.1	0.6	0.1	130	2.01	0.188
32604	Drill Core	7.01	8.2	228.6	8.4	49	0.5	12.4	16.3	670	3.97	4.4	7.6	2.4	229	0.1	0.6	0.2	121	1.93	0.194
32605	Drill Core	7.40	24.6	143.0	18.8	49	0.5	11.5	18.3	895	4.43	8.8	104.7	2.6	165	0.1	1.9	0.2	117	3.15	0.181
32606	Drill Core	7.09	51.4	164.2	12.0	60	0.6	10.4	14.0	1057	3.87	4.3	18.1	2.6	175	<0.1	0.7	0.2	115	3.45	0.172
32607	Drill Core	7.26	7.1	146.3	8.9	58	0.4	8.9	15.6	1026	3.87	4.8	48.1	2.9	253	0.1	0.4	0.2	120	1.70	0.172
32608	Drill Core	7.22	10.7	169.6	7.9	65	0.4	7.8	16.3	1173	3.89	5.1	20.0	2.7	248	<0.1	0.6	0.2	112	1.85	0.172
32609	Drill Core	7.30	4.5	119.3	6.7	65	0.4	13.6	19.7	1415	4.27	4.9	13.4	2.2	218	<0.1	0.5	<0.1	120	3.32	0.158
32610	Drill Core	7.08	1.1	15.6	13.0	56	<0.1	35.6	20.7	823	3.49	4.2	1.4	0.7	221	<0.1	0.1	<0.1	112	4.30	0.168
32611	Drill Core	7.65	5.2	99.4	6.9	57	0.3	17.4	18.2	973	4.37	4.8	9.0	2.3	220	<0.1	0.4	<0.1	107	2.40	0.167
32612	Rock Pulp	0.10	2.2	25.1	2.3	40	0.3	23.8	10.5	359	2.38	4.4	<0.5	0.9	35	0.2	0.3	<0.1	57	0.84	0.056
32613	Drill Core	7.35	4.8	201.7	6.0	58	0.6	8.7	14.9	1118	3.88	6.3	13.1	3.7	237	0.1	0.7	<0.1	86	2.11	0.180
32614	Drill Core	6.91	9.0	290.7	8.4	111	0.4	10.0	15.8	1349	3.95	3.7	18.9	3.2	284	<0.1	0.8	0.1	118	2.60	0.178
32615	Drill Core	7.46	4.9	350.9	7.9	120	0.5	8.0	15.0	1732	4.06	5.3	16.9	3.5	226	0.2	0.9	0.2	106	2.57	0.178
32616	Drill Core	6.76	5.0	318.5	7.2	138	0.3	8.9	16.3	1900	4.15	4.9	14.9	3.9	229	0.2	0.7	<0.1	125	3.34	0.179
32617	Drill Core	7.98	5.0	292.5	10.9	63	0.7	7.5	16.0	1601	4.16	7.1	10.0	3.2	181	0.2	0.7	<0.1	103	3.35	0.180
32618	Drill Core	5.98	8.3	259.5	21.7	99	0.7	8.5	17.7	1739	4.97	5.9	6.1	3.6	142	<0.1	0.6	0.3	115	2.35	0.178
32619	Drill Core	7.72	7.8	423.7	14.9	90	0.8	8.8	18.6	1538	4.54	5.7	21.2	3.2	125	0.3	0.6	0.2	98	2.85	0.176
32620	Drill Core	6.74	7.4	383.6	13.4	84	0.9	8.8	19.2	1536	5.28	6.9	16.0	3.2	97	0.2	0.8	0.1	89	3.55	0.163
32621	Drill Core	6.45	4.3	347.8	10.4	126	0.8	12.0	20.6	2010	5.06	3.9	9.9	3.2	140	0.1	0.7	0.2	100	4.08	0.180
32622	Drill Core	7.58	3.3	151.6	9.9	191	0.3	8.2	16.2	2264	4.90	2.4	10.9	3.8	108	0.1	0.5	<0.1	94	3.27	0.162
32623	Drill Core	7.38	2.3	291.4	12.5	159	0.5	7.9	17.1	2460	4.10	2.1	6.1	3.6	99	0.4	0.6	0.2	79	3.71	0.171
32624	Drill Core	7.13	7.5	236.0	11.9	86	0.4	6.0	14.2	1757	3.71	5.3	11.5	3.4	131	0.3	0.6	0.1	58	5.15	0.151
32625	Drill Core	7.73	3.2	168.5	6.3	90	0.3	11.4	16.9	1759	4.31	4.7	2.5	2.8	141	<0.1	0.5	0.2	83	5.01	0.179
32626	Drill Core	4.58	4.2	128.4	5.0	62	0.2	11.9	16.5	1092	3.59	2.9	<0.5	2.2	111	0.1	0.4	0.2	63	4.43	0.146
32627	Rock Pulp	0.10	295.1	3080	9.5	55	0.9	25.3	11.5	436	3.12	5.4	170.0	2.0	41	0.2	2.5	0.2	61	0.94	0.058

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: January 30, 2012

CERTIFICATE OF ANALYSIS SMI11000849.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	G6Gr
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
32598	Drill Core	11	20	1.57	121	0.219	2	2.80	0.592	0.86	0.6	0.02	4.7	0.2	1.46	8	1.2	<0.2	
32599	Drill Core	12	31	1.70	93	0.216	2	2.96	0.623	0.99	0.6	0.03	4.7	<0.1	0.98	9	<0.5	0.3	
32600	Drill Core	9	43	1.83	71	0.203	2	2.42	0.142	0.88	0.3	0.02	9.2	0.1	0.62	8	<0.5	<0.2	
32601	Drill Core	10	12	1.56	62	0.159	2	1.90	0.178	0.85	0.6	0.10	4.9	0.2	2.30	8	1.2	<0.2	
32602	Drill Core	8	15	1.56	42	0.088	2	2.01	0.182	0.88	2.0	0.13	5.9	0.2	3.87	8	2.0	0.3	
32603	Drill Core	8	32	2.32	53	0.167	2	2.67	0.265	1.14	0.9	0.19	8.1	0.2	3.35	9	1.5	0.4	
32604	Drill Core	9	21	2.48	45	0.129	3	2.86	0.489	1.23	0.9	0.17	6.0	0.2	2.68	9	<0.5	0.3	
32605	Drill Core	9	20	2.37	55	0.111	<1	2.06	0.108	1.34	0.4	0.17	6.8	0.2	3.87	9	1.2	0.5	
32606	Drill Core	10	19	2.12	68	0.102	<1	1.75	0.062	1.19	0.5	0.11	6.3	0.2	2.65	8	1.2	0.5	
32607	Drill Core	9	15	2.62	45	0.115	<1	2.81	0.277	1.37	0.7	0.31	7.2	0.2	2.91	10	<0.5	0.6	
32608	Drill Core	9	11	2.91	72	0.145	1	2.88	0.228	1.65	0.5	0.18	6.5	0.2	2.83	10	1.9	<0.2	
32609	Drill Core	9	26	2.56	69	0.150	1	2.98	0.321	1.26	0.8	0.04	7.6	0.2	2.28	10	1.3	0.3	
32610	Drill Core	4	83	2.21	50	0.163	2	3.15	0.394	1.10	0.3	0.02	12.0	0.2	<0.05	9	<0.5	<0.2	
32611	Drill Core	7	33	2.19	56	0.135	<1	2.72	0.289	1.20	0.7	<0.01	7.2	0.2	2.54	8	<0.5	<0.2	
32612	Rock Pulp	4	32	0.76	91	0.129	2	1.54	0.079	0.12	11.1	<0.01	4.6	<0.1	<0.05	5	<0.5	<0.2	
32613	Drill Core	11	14	1.78	71	0.154	1	2.07	0.193	0.86	0.7	0.11	5.7	<0.1	2.76	8	0.6	0.3	
32614	Drill Core	12	15	2.32	98	0.207	3	2.98	0.426	1.07	0.6	0.05	6.8	0.1	0.95	11	0.6	<0.2	
32615	Drill Core	13	12	1.87	83	0.184	2	2.48	0.261	0.91	0.8	0.10	6.2	<0.1	1.47	10	<0.5	<0.2	
32616	Drill Core	14	13	2.67	140	0.192	2	2.92	0.323	1.05	0.5	0.03	6.7	<0.1	0.64	11	0.9	<0.2	
32617	Drill Core	13	12	2.19	33	0.086	3	2.02	0.068	0.52	0.3	0.07	5.4	<0.1	3.46	10	0.6	0.8	
32618	Drill Core	13	15	2.86	71	0.133	2	2.38	0.123	1.38	0.4	0.08	6.4	0.2	3.57	11	1.9	0.4	
32619	Drill Core	11	13	2.58	52	0.113	2	1.94	0.061	0.89	0.3	0.08	5.5	<0.1	3.43	10	1.1	0.3	
32620	Drill Core	14	10	1.85	35	0.057	2	1.48	0.057	0.63	0.2	0.05	4.6	<0.1	4.47	8	0.7	0.3	
32621	Drill Core	16	15	2.08	63	0.078	4	1.94	0.045	0.83	0.3	0.03	5.6	0.1	2.27	9	1.2	<0.2	
32622	Drill Core	15	9	2.50	53	0.071	2	2.32	0.057	1.04	0.1	0.02	5.3	0.1	0.90	10	<0.5	<0.2	
32623	Drill Core	14	7	2.42	50	0.043	5	1.79	0.057	0.76	0.1	0.02	5.2	0.1	0.82	8	1.4	<0.2	
32624	Drill Core	12	5	1.45	55	0.015	3	1.17	0.053	0.50	0.1	0.02	3.6	<0.1	2.07	6	0.9	<0.2	
32625	Drill Core	13	14	2.25	53	0.030	5	1.69	0.052	0.59	0.2	0.02	5.8	<0.1	1.12	7	<0.5	<0.2	
32626	Drill Core	10	8	1.55	60	0.004	4	1.20	0.049	0.38	0.1	0.02	4.2	<0.1	1.40	5	1.1	<0.2	
32627	Rock Pulp	6	31	0.77	114	0.141	4	1.58	0.097	0.21	11.1	0.02	4.7	<0.1	0.42	5	0.5	<0.2	

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750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: January 30, 2012

CERTIFICATE OF ANALYSIS SMI11000849.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
32628	Drill Core	8.30	4.2	140.8	4.1	65	0.2	12.7	19.3	1478	4.22	10.8	17.1	1.9	134	0.2	1.1	<0.1	76	4.62	0.196
32629	Drill Core	2.03	1.9	202.0	3.5	72	0.2	15.9	24.6	1261	5.04	7.0	11.9	1.5	171	<0.1	0.4	<0.1	128	3.37	0.195
32630	Drill Core	4.42	2.4	153.4	3.0	86	0.2	12.5	18.7	1866	4.44	10.0	9.8	1.9	125	<0.1	0.5	<0.1	139	2.76	0.182
32631	Drill Core	5.22	3.0	169.3	4.1	73	0.4	12.5	20.1	1353	4.41	9.0	4.7	1.6	170	<0.1	1.0	0.1	125	2.10	0.182
32632	Drill Core	5.18	9.4	219.0	45.0	83	0.6	12.3	22.0	1639	5.18	11.6	7.6	1.5	195	0.1	0.9	0.8	163	2.93	0.197
32633	Rock Pulp	0.10	13.4	31.5	15.4	21	0.4	10.7	6.3	43	2.91	455.8	226.8	0.7	25	0.4	21.4	0.2	9	0.95	0.005

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750-625 Howe St.
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Project: CAPTAIN
Report Date: January 30, 2012

CERTIFICATE OF ANALYSIS SMI11000849.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	G6Gr
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
32628	Drill Core	11	14	2.64	80	0.017	9	1.31	0.054	0.62	0.1	0.06	7.4	<0.1	1.86	4	1.2	0.3	
32629	Drill Core	11	18	3.01	106	0.055	4	2.70	0.065	0.58	0.4	0.04	7.5	<0.1	1.43	9	1.5	0.3	
32630	Drill Core	12	21	3.75	180	0.192	2	2.90	0.084	1.21	0.2	0.04	7.5	0.3	1.05	9	0.8	0.3	
32631	Drill Core	9	19	3.01	80	0.184	3	2.41	0.120	1.13	0.3	0.03	7.8	0.3	1.95	9	<0.5	0.2	
32632	Drill Core	10	23	4.42	70	0.240	3	3.07	0.139	2.07	0.3	0.03	10.3	0.4	2.11	10	1.2	0.3	
32633	Rock Pulp	2	17	0.03	709	0.009	1	0.17	0.009	0.06	26.8	2.83	0.7	12.8	0.13	<1	1.9	<0.2	<0.9

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Project: CAPTAIN
Report Date: January 30, 2012

QUALITY CONTROL REPORT SMI11000849.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
32605	Drill Core	7.40	24.6	143.0	18.8	49	0.5	11.5	18.3	895	4.43	8.8	104.7	2.6	165	0.1	1.9	0.2	117	3.15	0.181
REP 32605	QC		25.7	145.2	18.7	48	0.4	11.5	18.4	878	4.46	8.2	49.4	2.7	161	<0.1	1.9	0.3	116	3.16	0.177
32608	Drill Core	7.22	10.7	169.6	7.9	65	0.4	7.8	16.3	1173	3.89	5.1	20.0	2.7	248	<0.1	0.6	0.2	112	1.85	0.172
REP 32608	QC		10.5	165.9	7.9	65	0.3	7.7	16.5	1179	3.92	5.0	18.8	2.7	239	0.2	0.5	0.2	113	1.89	0.172
32631	Drill Core	5.22	3.0	169.3	4.1	73	0.4	12.5	20.1	1353	4.41	9.0	4.7	1.6	170	<0.1	1.0	0.1	125	2.10	0.182
REP 32631	QC		3.2	162.8	4.4	73	0.3	11.4	19.6	1328	4.34	8.1	5.4	1.6	165	0.1	0.7	<0.1	123	2.07	0.178
Core Reject Duplicates																					
32599	Drill Core	7.82	44.9	254.2	4.5	75	0.3	18.6	22.9	859	4.57	2.7	11.0	1.9	399	<0.1	0.3	0.2	164	2.67	0.246
DUP 32599	QC		44.5	239.5	4.6	70	0.3	18.0	21.7	845	4.42	2.6	4.8	1.8	386	<0.1	0.2	0.2	161	2.58	0.244
Reference Materials																					
STD AGPROOF	Standard																				
STD DS8	Standard		14.1	114.2	124.2	302	1.7	40.7	7.7	572	2.54	24.6	122.0	7.4	63	2.3	5.8	7.5	41	0.74	0.079
STD DS8	Standard		12.5	101.2	120.6	310	2.0	36.0	7.1	600	2.42	23.0	107.3	6.4	61	2.1	5.6	6.0	41	0.71	0.076
STD SP49	Standard																				
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
STD SP49 Expected																					
STD AGPROOF Expected																					
BLK	Blank		<0.1	0.1	0.2	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
G1	Prep Blank		0.9	4.1	3.8	47	<0.1	17.0	5.1	573	1.98	<0.5	1.2	7.0	72	<0.1	<0.1	<0.1	36	0.59	0.082
G1	Prep Blank		1.1	4.3	3.5	43	<0.1	21.0	5.5	569	1.93	<0.5	<0.5	6.3	66	<0.1	<0.1	<0.1	36	0.56	0.078

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AcmeLabs Acme Analytical Laboratories (Vancouver) Ltd.
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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: January 30, 2012

QUALITY CONTROL REPORT SMI11000849.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	G6Gr
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
Pulp Duplicates																			
32605	Drill Core	9	20	2.37	55	0.111	<1	2.06	0.108	1.34	0.4	0.17	6.8	0.2	3.87	9	1.2	0.5	
REP 32605	QC	11	20	2.37	55	0.111	2	2.06	0.107	1.34	0.5	0.19	6.9	0.2	3.89	8	1.4	0.3	
32608	Drill Core	9	11	2.91	72	0.145	1	2.88	0.228	1.65	0.5	0.18	6.5	0.2	2.83	10	1.9	<0.2	
REP 32608	QC	8	11	2.92	68	0.150	<1	2.90	0.228	1.66	0.5	0.20	6.7	0.2	2.86	10	0.5	<0.2	
32631	Drill Core	9	19	3.01	80	0.184	3	2.41	0.120	1.13	0.3	0.03	7.8	0.3	1.95	9	<0.5	0.2	
REP 32631	QC	9	19	2.94	80	0.181	3	2.39	0.122	1.12	0.3	0.04	7.6	0.3	1.91	9	<0.5	0.3	
Core Reject Duplicates																			
32599	Drill Core	12	31	1.70	93	0.216	2	2.96	0.623	0.99	0.6	0.03	4.7	<0.1	0.98	9	<0.5	0.3	
DUP 32599	QC	12	31	1.65	91	0.201	2	2.91	0.618	0.96	0.5	0.04	4.3	<0.1	0.93	8	<0.5	<0.2	
Reference Materials																			
STD AGPROOF	Standard																		<0.9
STD DS8	Standard	16	121	0.62	270	0.130	4	0.97	0.099	0.44	2.7	0.16	2.6	4.8	0.16	4	4.6	5.2	
STD DS8	Standard	16	116	0.60	268	0.109	3	0.90	0.092	0.41	2.9	0.22	2.6	5.4	0.16	4	5.4	4.6	
STD SP49	Standard																		18.6
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5	
STD SP49 Expected																			18.34
STD AGPROOF Expected																			0
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank																		<0.9
BLK	Blank																		<0.9
Prep Wash																			
G1	Prep Blank	16	17	0.61	188	0.140	<1	1.04	0.119	0.51	<0.1	<0.01	2.8	0.3	<0.05	5	0.6	<0.2	
G1	Prep Blank	13	19	0.65	173	0.136	3	1.03	0.116	0.52	<0.1	<0.01	2.7	0.3	<0.05	5	<0.5	<0.2	

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Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Submitted By:	Ross Zawada
Receiving Lab:	Canada-Smithers
Received:	January 23, 2012
Report Date:	February 13, 2012
Page:	1 of 5

CERTIFICATE OF ANALYSIS SMI12000004.1

CLIENT JOB INFORMATION

Project:	CAPTAIN
Shipment ID:	Cap 2012-01
P.O. Number	
Number of Samples:	106

SAMPLE DISPOSAL

STOR-PLP	Store After 90 days Invoice for Storage
STOR-RJT	Store After 90 days Invoice for Storage

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	113	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1DX2	119	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
G6Gr	7	Lead collection fire assay 30G fusion - Grav finish	30	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Orestone Mining Corp.
750-625 Howe St.
Vancouver BC V4A 9T8
Canada

CC: Erica Vargas
Gary Nordin

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: February 13, 2012

CERTIFICATE OF ANALYSIS SMI12000004.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
32634	Drill Core	5.05	3.1	146.2	1.5	37	0.1	21.8	25.1	605	4.66	3.6	1.9	0.8	882	<0.1	0.2	0.1	154	3.69	0.117
32635	Drill Core	5.58	7.6	140.4	1.6	34	0.1	23.0	24.1	532	4.50	4.0	3.2	0.9	426	<0.1	0.2	0.1	154	2.72	0.132
32636	Drill Core	6.11	8.3	126.1	2.6	51	0.2	23.7	24.8	744	4.18	2.4	1.4	0.8	195	<0.1	0.1	0.2	138	4.15	0.125
32637	Drill Core	4.90	1.2	127.9	4.7	40	0.2	12.4	9.8	503	2.47	0.9	1.8	2.0	279	0.2	<0.1	<0.1	101	2.32	0.117
32638	Drill Core	5.04	0.8	99.3	4.5	30	0.1	12.6	11.4	514	2.55	1.5	6.9	2.0	216	<0.1	<0.1	<0.1	101	2.26	0.126
32639	Drill Core	5.32	1.5	116.5	1.6	41	<0.1	15.0	22.2	549	4.37	1.8	1.1	1.3	219	<0.1	0.2	<0.1	154	2.41	0.141
32640	Drill Core	4.99	1.7	69.3	1.1	29	<0.1	15.0	20.4	510	4.60	1.3	<0.5	1.2	440	<0.1	<0.1	<0.1	175	1.86	0.142
32641	Drill Core	5.22	1.9	70.3	1.4	26	<0.1	13.7	20.0	465	4.35	1.3	<0.5	1.2	609	<0.1	0.2	<0.1	165	2.11	0.137
32642	Drill Core	6.15	1.6	58.1	1.0	21	<0.1	12.9	18.6	384	4.22	0.7	<0.5	1.3	505	<0.1	0.1	<0.1	158	1.59	0.137
32643	Drill Core	5.43	2.6	124.2	1.5	35	<0.1	17.6	24.7	577	4.79	2.3	<0.5	1.2	658	<0.1	0.2	<0.1	161	1.97	0.135
32644	Drill Core	6.39	1.0	68.0	0.8	29	<0.1	26.2	21.4	434	4.09	0.6	0.5	1.2	323	<0.1	0.1	<0.1	132	1.35	0.124
32645	Drill Core	5.46	1.4	55.3	1.2	44	<0.1	26.2	20.1	617	4.00	0.6	1.5	1.2	195	<0.1	<0.1	<0.1	128	2.16	0.127
32646	Drill Core	5.86	1.8	94.2	1.5	29	<0.1	28.5	22.4	516	3.98	2.1	2.7	1.3	174	<0.1	0.2	<0.1	117	1.77	0.132
32647	Drill Core	4.41	3.4	124.1	5.9	85	0.2	20.0	25.8	2583	5.29	48.1	63.4	1.1	65	0.1	0.5	<0.1	138	4.27	0.164
32648	Rock Pulp	0.14	286.3	3017	8.9	54	1.0	22.5	10.7	450	2.92	5.4	223.0	1.9	44	0.2	2.3	0.2	59	0.87	0.062
32649	Drill Core	3.47	3.4	83.1	10.7	54	0.2	21.1	27.0	1590	5.92	260.3	281.9	0.9	78	0.1	1.1	<0.1	128	3.52	0.181
32650	Drill Core	3.80	2.1	81.7	4.3	91	0.1	26.6	36.2	2215	6.16	8.7	14.4	0.6	93	<0.1	0.4	0.1	236	3.99	0.150
32651	Drill Core	4.15	5.9	96.2	4.3	109	0.1	23.1	29.6	2603	6.09	8.6	27.1	0.7	109	0.2	0.3	<0.1	202	3.78	0.163
32652	Drill Core	3.90	9.0	93.6	4.5	91	0.1	20.7	25.4	2531	5.94	23.8	67.0	0.8	106	<0.1	0.6	0.1	166	3.37	0.162
32653	Drill Core	3.80	3.3	181.5	15.6	67	0.4	22.4	43.1	1625	7.01	240.9	268.7	1.0	105	0.2	1.3	<0.1	116	2.94	0.199
32654	Drill Core	5.69	0.2	38.9	6.2	32	<0.1	11.7	12.7	1208	3.62	5.3	26.7	1.3	126	<0.1	0.3	<0.1	152	3.51	0.129
32655	Drill Core	3.49	1.7	27.4	8.0	33	<0.1	13.7	17.9	1090	3.87	5.3	109.6	1.2	123	0.1	0.3	<0.1	152	3.06	0.122
32656	Drill Core	5.73	0.4	32.6	7.6	66	<0.1	12.1	10.6	1152	3.34	3.6	54.6	0.9	108	0.4	0.3	<0.1	148	3.24	0.099
32657	Drill Core	4.84	3.5	217.0	9.9	36	0.8	24.1	29.8	1181	5.89	38.3	67.0	1.0	119	0.1	0.9	0.1	118	4.00	0.163
32658	Drill Core	2.28	11.8	145.1	3.9	79	3.3	31.3	32.1	1517	5.78	10.2	38.0	0.9	101	<0.1	0.8	0.1	176	3.26	0.177
32659	Drill Core	3.56	15.3	472.6	2.1	57	0.3	26.0	34.9	1419	6.30	4.5	41.8	1.1	103	<0.1	0.5	<0.1	209	2.85	0.188
32660	Drill Core	4.30	3.2	215.0	4.4	45	0.2	25.3	36.3	1226	6.22	5.5	35.0	0.9	92	<0.1	1.0	0.4	145	2.54	0.183
32661	Drill Core	3.56	2.8	152.7	6.4	38	0.2	25.1	34.0	1092	6.23	6.8	42.8	1.0	82	<0.1	1.4	1.0	101	2.69	0.188
32662	Drill Core	3.41	2.6	157.8	6.9	43	0.2	26.5	43.4	1349	6.05	8.0	39.7	0.9	155	<0.1	1.1	1.0	111	3.64	0.191
32663	Rock Pulp	0.14	14.4	34.8	15.5	19	0.5	11.0	6.5	50	3.04	471.6	226.7	0.8	27	0.4	22.3	0.2	10	1.01	0.005

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: February 13, 2012

CERTIFICATE OF ANALYSIS SMI12000004.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	G6Gr
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
32634	Drill Core	5	24	1.37	152	0.223	4	3.46	0.235	0.77	0.5	<0.01	3.8	0.2	1.54	9	<0.5	<0.2	
32635	Drill Core	5	26	1.35	139	0.226	5	3.29	0.200	0.77	0.5	0.01	4.7	0.1	1.25	9	<0.5	<0.2	
32636	Drill Core	6	27	1.32	75	0.191	2	3.33	0.179	0.61	0.9	<0.01	4.8	<0.1	1.33	9	0.7	<0.2	
32637	Drill Core	11	20	0.60	73	0.149	2	2.08	0.277	0.53	0.5	<0.01	3.7	<0.1	0.15	8	<0.5	<0.2	
32638	Drill Core	10	21	0.59	81	0.160	3	1.90	0.264	0.51	0.3	<0.01	4.0	<0.1	0.29	7	<0.5	<0.2	
32639	Drill Core	7	15	1.55	114	0.272	6	3.27	0.176	1.02	0.3	<0.01	5.1	0.1	0.78	11	<0.5	<0.2	
32640	Drill Core	7	14	1.61	174	0.284	4	3.20	0.249	1.28	0.2	<0.01	4.8	0.2	0.47	11	<0.5	<0.2	
32641	Drill Core	7	14	1.40	203	0.285	3	3.13	0.309	1.15	0.4	<0.01	4.3	0.2	0.62	10	<0.5	<0.2	
32642	Drill Core	7	13	1.38	266	0.283	1	3.13	0.362	1.54	0.2	<0.01	3.0	0.2	0.39	9	<0.5	<0.2	
32643	Drill Core	7	17	1.38	169	0.271	2	3.02	0.271	1.25	0.3	<0.01	5.7	0.2	0.94	10	1.1	<0.2	
32644	Drill Core	7	36	1.87	381	0.295	1	3.03	0.294	1.73	0.1	<0.01	3.2	0.1	0.15	10	<0.5	<0.2	
32645	Drill Core	6	34	1.86	407	0.262	3	3.09	0.240	1.19	0.2	<0.01	4.2	<0.1	0.10	10	<0.5	<0.2	
32646	Drill Core	7	33	1.58	418	0.273	2	2.82	0.307	1.13	0.2	<0.01	4.1	0.1	0.29	9	<0.5	<0.2	
32647	Drill Core	10	24	2.32	122	0.012	5	2.53	0.018	0.49	0.2	0.02	9.3	0.2	1.44	6	<0.5	0.3	
32648	Rock Pulp	6	29	0.73	118	0.129	3	1.47	0.094	0.20	10.9	0.03	4.6	<0.1	0.42	5	0.8	<0.2	<0.9
32649	Drill Core	10	28	1.98	47	0.003	3	2.42	0.012	0.37	0.1	0.03	8.2	0.2	2.99	7	0.9	0.5	<0.9
32650	Drill Core	8	47	3.59	143	0.017	2	3.72	0.032	0.15	<0.1	0.01	15.9	<0.1	0.99	11	4.8	<0.2	
32651	Drill Core	7	46	3.11	92	0.009	2	3.46	0.037	0.17	<0.1	0.02	13.8	<0.1	1.27	11	8.2	<0.2	
32652	Drill Core	9	40	2.73	81	0.008	2	3.43	0.081	0.24	<0.1	0.02	9.9	<0.1	1.99	10	7.9	<0.2	
32653	Drill Core	9	24	1.88	45	0.005	4	2.74	0.025	0.52	<0.1	0.05	7.6	0.3	5.31	6	1.4	0.4	<0.9
32654	Drill Core	12	26	1.24	71	0.116	1	1.39	0.066	0.18	0.2	<0.01	7.1	<0.1	0.29	8	<0.5	<0.2	
32655	Drill Core	11	26	1.17	85	0.160	2	1.44	0.099	0.25	0.2	<0.01	7.1	<0.1	0.85	8	1.6	<0.2	
32656	Drill Core	10	27	1.03	77	0.112	1	1.20	0.079	0.19	0.2	<0.01	4.8	<0.1	0.14	8	<0.5	<0.2	
32657	Drill Core	11	25	1.84	28	0.007	3	2.11	0.034	0.63	6.8	0.05	8.6	0.3	4.72	7	5.1	0.8	
32658	Drill Core	9	31	2.74	45	0.007	3	2.55	0.036	0.47	40.8	0.10	12.3	0.2	2.23	9	1.3	0.4	
32659	Drill Core	11	37	3.04	185	0.015	2	2.83	0.043	0.56	0.6	0.03	13.0	0.2	0.84	10	0.9	<0.2	
32660	Drill Core	4	32	2.18	20	0.006	2	1.80	0.051	0.28	0.3	0.39	12.6	0.1	4.32	8	4.7	0.7	
32661	Drill Core	4	19	1.54	15	0.005	2	1.19	0.051	0.32	0.2	0.82	11.7	0.1	5.53	5	7.6	1.5	
32662	Drill Core	4	17	1.96	20	0.002	2	1.49	0.034	0.31	0.3	0.38	10.6	0.1	4.65	5	6.3	1.2	
32663	Rock Pulp	2	18	0.03	926	0.010	2	0.17	0.008	0.07	27.6	2.89	0.7	13.4	0.14	<1	1.4	<0.2	<0.9

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750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: February 13, 2012

CERTIFICATE OF ANALYSIS SMI12000004.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
32664	Drill Core	4.29	1.3	58.2	7.5	48	0.2	17.9	29.9	1624	5.87	7.7	60.4	0.8	200	<0.1	0.9	0.5	124	3.71	0.172
32665	Drill Core	5.39	1.2	52.7	4.0	71	<0.1	20.3	33.3	1801	6.28	2.6	6.8	0.7	189	<0.1	0.6	<0.1	159	3.57	0.172
32666	Drill Core	4.40	7.5	91.4	11.7	29	0.3	19.6	33.3	1581	5.08	209.5	243.7	0.6	121	0.1	2.3	<0.1	56	5.48	0.166
32667	Drill Core	3.76	1.0	88.0	1.5	50	<0.1	27.6	36.1	1152	4.76	0.8	3.5	0.8	515	<0.1	0.5	<0.1	124	3.19	0.176
32668	Drill Core	4.83	1.0	14.4	1.2	42	<0.1	14.3	19.9	1092	3.55	<0.5	3.5	0.7	684	<0.1	0.6	<0.1	104	4.70	0.176
32669	Drill Core	4.93	19.9	104.9	4.2	29	0.8	10.5	23.7	2900	3.66	19.5	162.0	0.4	439	0.3	1.6	<0.1	127	13.47	0.086
32670	Drill Core	3.72	2.1	52.7	2.3	51	<0.1	20.7	26.5	1439	5.36	3.0	11.2	0.7	431	<0.1	0.7	<0.1	172	3.95	0.171
32671	Drill Core	4.68	2.7	177.3	7.7	41	0.2	16.4	42.6	952	6.72	3.8	37.9	0.8	509	<0.1	0.6	0.1	189	4.24	0.148
32672	Drill Core	4.19	1.9	127.2	4.4	37	0.1	17.6	32.9	897	6.38	2.1	12.4	0.8	702	<0.1	0.3	<0.1	206	3.97	0.169
32673	Drill Core	5.57	1.2	126.9	4.8	35	0.2	13.1	30.2	890	5.07	3.5	44.7	1.0	482	<0.1	0.8	<0.1	66	4.71	0.184
32674	Drill Core	5.08	11.5	70.0	7.0	26	0.1	12.5	29.6	914	5.38	31.5	93.1	0.8	342	<0.1	0.8	0.1	41	4.34	0.177
32675	Drill Core	4.79	3.7	128.3	13.1	27	0.2	18.0	35.5	1058	5.51	215.3	176.8	0.8	500	<0.1	1.5	<0.1	65	3.94	0.183
32676	Drill Core	4.93	1.8	172.6	7.6	46	0.2	16.2	29.2	1454	5.81	5.6	44.3	0.9	382	<0.1	0.9	<0.1	146	4.05	0.206
32677	Drill Core	5.22	3.8	162.9	6.1	42	0.2	15.9	40.5	1234	5.51	8.8	42.5	1.0	327	<0.1	0.7	<0.1	93	4.02	0.183
32678	Rock Pulp	0.14	2.1	24.1	2.3	46	0.3	20.2	9.5	432	2.36	4.0	<0.5	0.9	35	0.1	0.2	<0.1	56	0.82	0.059
32679	Drill Core	5.10	3.3	122.9	3.6	45	0.2	21.7	30.6	1456	5.67	3.5	36.1	0.9	324	<0.1	0.5	<0.1	165	5.59	0.203
32680	Drill Core	4.66	2.1	236.9	3.6	39	0.1	16.1	33.6	1165	5.25	5.0	46.3	1.0	311	<0.1	0.4	<0.1	134	3.61	0.209
32681	Drill Core	3.67	1.6	124.1	3.5	34	0.1	16.5	31.6	785	4.67	2.2	22.4	1.0	233	<0.1	0.5	<0.1	52	2.20	0.215
32682	Drill Core	5.50	0.8	136.5	2.0	41	<0.1	15.2	38.5	964	5.30	3.2	21.5	1.2	310	<0.1	0.3	<0.1	87	2.67	0.206
32683	Drill Core	3.84	2.5	181.9	5.9	31	0.1	17.2	36.4	566	5.56	5.6	40.4	0.8	638	<0.1	0.6	<0.1	57	4.65	0.201
32684	Drill Core	3.29	3.9	84.0	10.0	13	0.2	15.5	34.4	262	5.72	8.4	81.2	0.6	543	0.1	0.8	0.1	33	3.89	0.200
32685	Drill Core	4.09	1.2	102.2	3.3	46	0.2	14.5	26.8	1162	5.84	5.8	28.4	1.0	718	<0.1	0.5	<0.1	197	4.73	0.185
32686	Drill Core	4.72	2.5	126.3	4.9	37	0.2	14.0	36.2	914	5.59	11.5	71.3	1.0	381	<0.1	0.8	0.1	108	4.02	0.198
32687	Drill Core	4.68	2.6	126.3	2.8	32	0.1	13.0	31.1	683	5.49	7.5	26.2	1.0	350	0.1	3.2	<0.1	51	3.85	0.186
32688	Drill Core	4.90	5.5	174.5	1.5	35	0.1	12.1	23.5	864	4.32	4.7	45.7	1.0	674	<0.1	0.3	<0.1	102	5.31	0.185
32689	Drill Core	4.85	2.4	121.9	1.3	42	<0.1	15.2	28.0	968	5.68	5.2	25.1	0.8	757	<0.1	0.2	<0.1	136	5.18	0.182
32690	Drill Core	4.60	2.6	116.1	2.1	38	<0.1	16.1	32.3	1020	4.86	10.2	34.7	0.9	598	<0.1	0.4	<0.1	137	4.63	0.183
32691	Drill Core	5.09	2.7	61.9	4.8	26	<0.1	13.9	25.8	607	4.18	8.6	54.8	0.6	585	<0.1	0.5	<0.1	69	4.38	0.181
32692	Drill Core	3.33	0.4	26.3	2.0	36	<0.1	10.6	17.5	1500	3.87	4.4	42.5	0.7	852	<0.1	0.5	<0.1	128	4.80	0.136
32693	Drill Core	2.95	0.7	25.0	1.8	33	<0.1	11.1	15.2	1501	3.81	3.5	44.7	0.8	878	<0.1	0.4	<0.1	127	4.87	0.132

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750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: February 13, 2012

CERTIFICATE OF ANALYSIS SMI12000004.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	G6Gr
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
32664	Drill Core	5	20	2.33	31	0.002	3	1.97	0.028	0.28	0.2	0.31	12.1	0.2	4.10	6	2.4	0.7	
32665	Drill Core	7	32	3.37	85	0.004	2	3.47	0.014	0.22	0.1	0.10	13.6	<0.1	1.78	9	0.8	<0.2	
32666	Drill Core	5	8	1.60	42	0.002	3	1.02	0.010	0.38	0.2	0.46	9.9	0.2	4.35	2	0.9	0.6	<0.9
32667	Drill Core	5	19	1.81	325	0.006	3	2.11	0.022	0.30	0.3	0.04	12.0	<0.1	0.32	6	<0.5	<0.2	
32668	Drill Core	5	14	1.33	401	0.004	2	1.17	0.020	0.33	0.4	0.03	13.3	<0.1	0.15	2	<0.5	<0.2	
32669	Drill Core	6	11	2.07	48	0.002	<1	0.64	0.014	0.14	0.2	0.38	10.5	0.1	2.78	2	0.7	1.4	
32670	Drill Core	6	28	2.69	213	0.007	<1	2.49	0.031	0.18	0.3	0.06	16.4	<0.1	0.67	9	<0.5	<0.2	
32671	Drill Core	8	34	2.94	38	0.013	<1	2.93	0.024	0.12	<0.1	0.06	14.7	<0.1	4.15	10	<0.5	<0.2	
32672	Drill Core	9	26	3.09	86	0.017	1	3.20	0.027	0.19	<0.1	0.04	12.0	<0.1	2.02	10	<0.5	<0.2	
32673	Drill Core	7	10	1.97	48	0.007	3	2.53	0.024	0.36	2.4	0.06	6.9	<0.1	4.25	5	3.1	0.2	
32674	Drill Core	6	6	1.40	36	0.006	2	1.72	0.022	0.38	<0.1	0.08	5.8	0.1	5.90	4	1.5	<0.2	
32675	Drill Core	7	19	1.49	38	0.007	3	1.81	0.016	0.39	0.1	0.14	6.5	0.1	5.76	4	<0.5	0.3	
32676	Drill Core	10	18	3.03	137	0.009	3	3.48	0.030	0.34	0.1	0.05	9.4	<0.1	1.56	9	<0.5	<0.2	
32677	Drill Core	9	15	2.18	64	0.011	6	2.93	0.033	0.42	<0.1	0.08	9.6	0.1	3.37	7	<0.5	<0.2	
32678	Rock Pulp	4	29	0.77	90	0.105	3	1.53	0.076	0.13	11.1	<0.01	5.1	<0.1	<0.05	5	<0.5	<0.2	
32679	Drill Core	10	34	2.65	134	0.050	1	2.96	0.027	0.50	<0.1	0.14	11.8	0.2	1.44	10	<0.5	<0.2	
32680	Drill Core	10	13	2.16	130	0.008	5	2.88	0.047	0.37	0.3	0.38	8.9	<0.1	1.63	8	<0.5	<0.2	
32681	Drill Core	9	10	1.94	45	0.008	12	2.50	0.035	0.46	0.1	0.25	6.7	0.1	3.01	6	<0.5	0.2	
32682	Drill Core	10	13	2.47	80	0.010	6	3.09	0.038	0.41	<0.1	0.18	10.4	<0.1	2.61	7	<0.5	0.2	
32683	Drill Core	5	9	1.49	34	0.006	2	1.86	0.019	0.31	0.1	0.39	5.6	<0.1	7.67	5	1.9	1.3	
32684	Drill Core	4	4	0.32	26	0.005	4	0.92	0.022	0.41	0.1	0.79	4.5	0.1	8.55	2	1.5	2.0	
32685	Drill Core	10	15	3.09	290	0.009	3	2.71	0.042	0.20	0.2	0.03	12.7	<0.1	0.65	9	<0.5	<0.2	
32686	Drill Core	7	12	2.33	64	0.007	3	2.21	0.045	0.31	0.1	0.07	11.5	<0.1	3.17	6	1.2	0.6	
32687	Drill Core	8	9	1.86	37	0.005	2	1.67	0.039	0.34	0.1	0.06	9.3	<0.1	5.29	5	<0.5	0.2	
32688	Drill Core	9	12	2.18	48	0.008	<1	2.39	0.041	0.30	0.1	0.05	10.6	<0.1	3.58	7	1.0	0.2	
32689	Drill Core	9	14	2.43	87	0.011	1	2.53	0.043	0.19	<0.1	0.01	11.7	<0.1	3.03	8	<0.5	0.3	
32690	Drill Core	7	15	2.38	58	0.008	2	2.50	0.047	0.27	<0.1	0.05	10.9	<0.1	3.98	8	0.8	<0.2	
32691	Drill Core	4	8	1.57	34	0.006	2	1.93	0.022	0.33	<0.1	0.20	5.9	<0.1	5.75	5	<0.5	0.3	
32692	Drill Core	11	18	1.37	380	0.013	2	1.51	0.050	0.17	<0.1	0.11	8.1	<0.1	0.40	7	<0.5	0.4	
32693	Drill Core	11	19	1.36	392	0.013	<1	1.50	0.048	0.16	<0.1	0.14	8.0	<0.1	0.30	7	<0.5	<0.2	

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750-625 Howe St.
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Project: CAPTAIN
Report Date: February 13, 2012

CERTIFICATE OF ANALYSIS SMI12000004.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
32694	Drill Core	7.17	0.6	23.4	1.9	39	<0.1	12.1	16.9	1550	3.92	2.5	29.5	0.8	818	<0.1	0.5	<0.1	129	4.78	0.136
32695	Drill Core	4.17	1.4	18.0	2.7	21	<0.1	15.1	24.1	997	3.31	2.7	37.8	0.8	499	<0.1	0.6	<0.1	69	3.92	0.253
32696	Drill Core	5.32	4.0	63.1	8.1	8	<0.1	20.4	34.8	200	5.94	9.7	51.9	0.6	505	<0.1	1.4	<0.1	26	4.47	0.253
32697	Drill Core	4.76	4.0	76.7	8.5	11	0.1	34.6	58.9	25	6.13	13.7	60.9	0.4	420	<0.1	1.4	<0.1	16	7.41	0.134
32698	Drill Core	4.72	2.8	62.0	3.9	14	<0.1	24.3	32.1	219	3.20	8.9	48.1	0.3	672	<0.1	0.8	<0.1	24	6.85	0.071
32699	Drill Core	3.86	2.5	68.3	5.6	16	<0.1	20.1	29.2	280	2.50	13.7	60.4	0.4	645	<0.1	4.2	<0.1	33	5.51	0.166
32700	Drill Core	2.26	3.4	51.3	6.1	20	<0.1	21.4	34.2	284	4.10	16.8	64.8	0.5	648	<0.1	4.8	<0.1	52	7.33	0.096
32701	Drill Core	6.04	1.1	72.6	3.2	37	0.2	13.1	18.4	1369	3.59	11.8	96.1	0.6	1337	<0.1	3.7	<0.1	106	5.11	0.162
32702	Drill Core	4.88	1.2	160.3	4.6	28	0.1	15.3	26.5	975	4.38	6.9	65.1	0.7	719	<0.1	0.7	0.1	96	5.05	0.174
32703	Drill Core	3.77	2.3	288.5	22.2	21	0.3	16.1	48.5	338	6.05	11.6	102.9	0.8	485	<0.1	0.9	<0.1	40	5.18	0.165
32704	Drill Core	6.29	1.7	168.6	20.3	19	0.2	16.8	40.9	289	6.08	10.3	62.8	0.8	412	<0.1	0.7	<0.1	43	3.39	0.181
32705	Drill Core	4.06	2.6	210.3	19.3	12	0.2	17.3	30.1	240	6.65	8.9	65.0	1.1	399	<0.1	0.9	<0.1	33	4.43	0.183
32706	Drill Core	4.79	2.6	218.8	13.1	48	0.2	17.8	26.1	687	5.47	11.9	32.9	0.9	415	<0.1	0.5	<0.1	81	4.24	0.177
32707	Drill Core	4.80	2.8	231.5	16.5	30	0.2	16.2	30.1	425	5.41	5.7	24.5	0.8	445	<0.1	0.5	<0.1	52	4.78	0.174
32708	Rock Pulp	0.15	286.4	3054	9.4	58	1.1	23.1	11.0	456	2.93	5.2	280.0	2.0	39	0.3	2.5	0.2	58	0.94	0.063
32709	Drill Core	4.91	3.4	183.8	17.0	17	0.2	16.4	29.5	255	6.15	5.9	28.5	0.7	407	<0.1	0.8	<0.1	47	4.78	0.186
32710	Drill Core	4.26	1.1	119.9	12.9	36	0.2	12.6	23.4	934	5.04	3.7	33.7	0.8	592	<0.1	0.4	<0.1	92	5.74	0.155
32711	Drill Core	4.22	2.1	175.6	19.1	33	0.2	18.8	32.8	498	6.00	9.5	30.1	0.8	426	<0.1	0.8	0.3	73	4.69	0.159
32712	Drill Core	4.80	2.6	152.4	13.5	5	<0.1	14.1	28.3	70	4.84	8.1	16.4	0.5	469	<0.1	0.9	0.8	36	5.08	0.182
32713	Drill Core	4.44	2.7	72.6	14.6	2	<0.1	11.8	20.5	14	4.10	6.4	9.4	0.9	477	<0.1	0.7	1.0	19	5.88	0.160
32714	Drill Core	5.26	2.4	129.4	19.2	35	0.2	12.6	24.5	329	5.26	3.3	15.6	1.0	519	<0.1	0.8	0.4	43	4.88	0.133
32715	Drill Core	5.08	1.1	117.2	14.0	53	0.1	13.3	24.4	670	5.53	5.9	13.5	1.0	528	<0.1	0.7	0.5	79	4.36	0.153
32716	Drill Core	5.08	4.9	64.8	11.6	29	0.1	12.2	23.3	363	4.23	2.6	11.6	1.0	504	<0.1	0.6	0.8	52	6.73	0.116
32717	Drill Core	3.92	5.8	47.0	12.0	2	0.1	12.2	21.8	12	3.00	3.9	7.7	1.1	533	<0.1	0.6	0.8	18	7.34	0.138
32718	Drill Core	5.00	2.3	183.9	10.0	54	0.2	16.0	25.2	715	4.64	10.6	17.7	1.1	521	<0.1	0.5	0.4	90	5.04	0.215
32719	Drill Core	4.49	2.5	104.0	10.5	23	0.1	16.8	25.0	237	4.22	4.1	14.5	0.9	481	<0.1	0.6	1.1	40	5.26	0.172
32720	Drill Core	4.54	2.0	96.9	7.5	4	<0.1	19.3	25.4	18	3.55	1.4	5.8	0.7	475	<0.1	0.4	1.0	21	6.77	0.151
32721	Drill Core	4.89	3.3	59.6	7.4	5	<0.1	15.1	25.0	41	3.11	1.3	6.4	0.9	770	<0.1	0.4	1.2	17	7.47	0.117
32722	Drill Core	4.21	7.5	30.3	7.1	2	<0.1	11.3	25.9	10	2.81	<0.5	6.2	0.8	748	<0.1	0.5	0.7	6	7.72	0.072
32723	Rock Pulp	0.14	13.7	34.5	15.7	19	0.4	11.0	6.5	47	2.95	494.8	246.2	0.8	20	0.3	22.8	0.2	10	0.99	0.005

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Phone (604) 253-3158 Fax (604) 253-1716
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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: February 13, 2012

CERTIFICATE OF ANALYSIS SMI12000004.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	G6Gr
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
32694	Drill Core	11	20	1.44	466	0.015	1	1.68	0.052	0.20	0.2	0.27	7.9	<0.1	0.23	7	<0.5	0.5	
32695	Drill Core	8	11	0.80	70	0.007	2	1.40	0.040	0.29	0.1	0.47	6.6	<0.1	2.18	4	<0.5	0.7	
32696	Drill Core	2	7	0.12	22	0.006	3	0.65	0.025	0.33	0.2	1.01	4.1	0.1	>10	<1	2.0	1.1	
32697	Drill Core	2	4	0.03	24	0.003	2	0.32	0.021	0.18	<0.1	1.66	2.5	0.1	>10	<1	4.9	2.7	
32698	Drill Core	1	27	0.30	31	0.002	1	0.45	0.010	0.10	0.2	0.56	1.7	<0.1	8.54	<1	2.6	1.5	
32699	Drill Core	2	11	1.13	43	0.004	3	1.45	0.026	0.29	1.2	0.72	3.6	<0.1	6.80	3	2.5	0.7	
32700	Drill Core	2	11	1.28	33	0.004	2	1.44	0.018	0.17	0.3	1.00	3.9	<0.1	>10	3	4.1	1.2	
32701	Drill Core	8	19	1.72	75	0.006	2	2.01	0.041	0.21	0.2	0.92	8.1	<0.1	1.72	7	<0.5	1.1	
32702	Drill Core	7	17	1.54	51	0.004	2	2.10	0.034	0.25	<0.1	0.52	6.3	<0.1	3.66	6	1.0	0.6	
32703	Drill Core	3	6	0.60	28	0.002	3	1.16	0.027	0.26	0.2	0.18	2.8	0.1	>10	2	2.7	1.4	
32704	Drill Core	4	7	0.63	32	0.002	3	1.25	0.039	0.32	<0.1	0.01	3.1	<0.1	9.41	2	1.6	0.3	
32705	Drill Core	4	4	0.38	31	0.002	4	1.06	0.030	0.34	<0.1	0.06	2.7	0.1	>10	2	0.9	<0.2	
32706	Drill Core	5	19	1.49	50	0.004	4	2.54	0.018	0.34	<0.1	0.05	4.5	<0.1	6.52	6	<0.5	<0.2	
32707	Drill Core	5	11	1.11	37	0.004	4	1.71	0.025	0.30	0.2	0.03	3.8	<0.1	9.09	4	0.5	<0.2	
32708	Rock Pulp	6	29	0.75	117	0.127	3	1.52	0.083	0.20	10.9	0.03	4.4	<0.1	0.49	5	0.7	<0.2	<0.9
32709	Drill Core	5	6	0.75	32	0.002	5	1.42	0.025	0.38	<0.1	0.25	3.5	<0.1	>10	3	4.7	0.9	
32710	Drill Core	9	14	1.39	38	0.003	3	1.85	0.044	0.22	0.1	0.21	6.3	<0.1	5.20	6	1.8	0.7	
32711	Drill Core	3	12	0.90	30	0.002	4	1.93	0.049	0.28	<0.1	0.03	5.5	0.2	8.00	4	4.9	0.7	
32712	Drill Core	<1	4	0.25	23	0.002	2	0.98	0.054	0.22	<0.1	0.01	3.2	0.3	9.19	2	7.8	1.9	
32713	Drill Core	4	3	0.04	29	<0.001	2	0.67	0.062	0.22	<0.1	<0.01	2.6	0.2	9.26	1	6.4	1.1	
32714	Drill Core	9	12	0.99	36	0.001	3	1.75	0.056	0.30	<0.1	<0.01	2.9	0.3	9.15	4	18.6	1.4	
32715	Drill Core	9	19	2.07	43	0.002	2	2.80	0.052	0.25	<0.1	<0.01	4.8	0.2	7.31	6	8.5	1.3	
32716	Drill Core	7	13	1.07	36	0.002	2	1.67	0.029	0.18	<0.1	<0.01	3.1	0.2	8.58	4	8.6	0.9	
32717	Drill Core	3	3	0.03	27	0.002	2	0.37	0.039	0.20	<0.1	<0.01	1.5	0.2	8.83	<1	2.3	0.6	
32718	Drill Core	6	23	1.51	48	0.002	3	2.48	0.059	0.26	<0.1	0.01	6.8	0.2	6.69	6	5.6	0.8	
32719	Drill Core	4	10	0.81	33	0.001	2	1.43	0.053	0.26	<0.1	0.05	3.7	0.3	8.46	3	10.2	0.8	
32720	Drill Core	3	6	0.10	38	<0.001	2	0.71	0.061	0.21	<0.1	0.03	3.2	0.3	9.25	1	11.3	0.7	
32721	Drill Core	3	6	0.17	26	0.002	1	0.66	0.053	0.14	<0.1	0.01	1.9	0.2	9.21	1	9.5	0.6	
32722	Drill Core	3	4	0.02	23	<0.001	1	0.29	0.053	0.08	<0.1	0.02	0.5	<0.1	9.14	<1	10.0	0.9	
32723	Rock Pulp	2	17	0.03	821	0.009	1	0.18	0.009	0.07	28.2	2.80	0.7	13.4	0.12	<1	1.4	<0.2	<0.9

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750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: February 13, 2012

CERTIFICATE OF ANALYSIS SMI12000004.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
32724	Drill Core	4.45	8.5	20.4	5.4	1	<0.1	7.6	18.4	13	2.72	1.8	3.2	1.2	514	<0.1	0.4	0.9	8	6.52	0.135
32725	Drill Core	3.98	1.0	13.6	3.7	1	<0.1	12.0	19.0	9	3.09	2.5	2.8	1.7	544	<0.1	0.4	0.9	8	6.20	0.210
32726	Drill Core	4.55	1.3	25.9	6.4	3	<0.1	8.2	15.0	39	4.26	4.3	14.9	1.7	625	<0.1	0.6	1.0	9	4.19	0.137
32727	Drill Core	4.53	1.4	69.0	4.5	30	<0.1	11.3	16.2	927	4.14	10.0	74.9	1.0	628	<0.1	0.3	0.3	67	4.92	0.135
32728	Drill Core	4.83	1.1	63.6	5.4	19	<0.1	8.2	15.1	137	4.23	2.9	7.1	1.4	555	<0.1	0.4	0.4	18	3.34	0.126
32729	Drill Core	4.80	3.4	33.5	4.7	5	<0.1	8.1	13.7	38	3.34	3.8	6.2	1.2	653	<0.1	0.5	1.1	9	4.64	0.165
32730	Drill Core	4.81	0.8	10.5	2.7	1	<0.1	6.2	9.6	12	2.70	3.4	12.2	0.8	883	<0.1	0.4	1.1	9	4.69	0.146
32731	Drill Core	4.54	1.9	6.4	2.2	<1	<0.1	8.5	11.2	9	2.19	2.1	1.9	0.8	764	<0.1	0.2	0.8	8	4.86	0.219
32732	Drill Core	4.71	1.9	19.5	3.1	2	<0.1	11.1	17.0	12	3.92	2.7	2.3	0.6	738	<0.1	0.6	1.4	6	4.70	0.125
32733	Drill Core	4.22	1.4	10.1	2.4	<1	<0.1	7.0	12.0	8	2.62	2.0	2.0	0.1	556	<0.1	0.5	1.3	4	4.05	0.021
32734	Drill Core	4.55	0.6	8.7	1.9	4	<0.1	3.5	6.0	49	1.73	4.0	1.6	0.7	857	<0.1	0.3	0.8	7	4.36	0.069
32735	Drill Core	5.20	1.0	81.6	6.8	56	<0.1	7.2	13.3	567	3.85	4.3	4.1	1.4	333	<0.1	0.3	0.9	32	2.56	0.120
32736	Drill Core	4.79	0.9	68.3	9.0	35	<0.1	6.8	12.4	525	3.82	5.8	5.5	1.7	421	<0.1	0.4	1.0	22	2.92	0.124
32737	Drill Core	4.86	2.0	65.9	11.2	17	<0.1	5.9	14.3	255	3.50	22.5	14.2	1.3	608	<0.1	0.6	1.2	13	4.66	0.130
32738	Rock Pulp	0.15	2.3	23.8	2.5	41	0.3	21.4	9.4	384	2.24	4.3	1.1	1.0	31	0.2	0.3	<0.1	55	0.75	0.056
32739	Drill Core	4.50	2.3	13.9	3.9	<1	<0.1	7.5	14.6	10	2.36	6.8	2.2	0.7	769	<0.1	0.5	1.1	8	5.81	0.110
32740	Drill Core	4.71	3.4	13.3	7.2	4	<0.1	6.6	14.2	6	2.58	8.0	5.0	0.3	632	<0.1	1.2	1.0	5	4.79	0.060
32741	Drill Core	4.19	1.0	10.5	4.9	<1	<0.1	9.5	13.9	7	3.13	5.1	4.7	0.2	435	<0.1	0.7	1.3	7	3.94	0.053
32742	Drill Core	4.18	0.5	24.7	7.3	3	<0.1	9.3	14.1	22	3.49	7.1	3.6	0.9	422	<0.1	0.7	0.8	5	3.31	0.087
32743	Drill Core	4.82	0.6	25.1	8.3	3	<0.1	5.7	10.2	40	3.24	5.6	8.4	1.3	439	<0.1	0.6	0.9	8	3.42	0.173
32744	Drill Core	5.33	1.6	24.6	10.1	3	<0.1	12.9	24.5	18	3.54	6.4	5.1	1.7	465	<0.1	1.0	0.7	7	4.41	0.177
32745	Drill Core	5.24	2.8	27.9	5.3	2	<0.1	9.0	18.0	9	2.87	8.6	2.8	2.1	578	<0.1	0.9	0.6	7	4.50	0.143
32746	Drill Core	5.32	1.2	32.9	5.4	3	<0.1	7.8	12.8	126	3.96	24.1	7.6	2.0	360	<0.1	0.7	0.7	7	1.58	0.120
32747	Drill Core	4.47	1.3	114.1	6.0	13	0.1	9.9	18.8	372	4.56	101.1	12.0	1.5	347	<0.1	1.1	0.3	21	2.64	0.121
32748	Drill Core	5.52	1.2	74.9	3.5	22	<0.1	10.1	18.4	499	4.03	7.0	26.0	1.3	218	<0.1	0.7	0.1	43	2.23	0.151
32749	Drill Core	4.47	3.1	25.0	4.9	1	0.2	15.2	17.5	41	5.08	7.2	65.5	3.1	245	<0.1	1.2	1.1	6	1.01	0.107
32750	Drill Core	5.23	3.4	24.1	5.1	2	0.1	7.0	12.4	36	3.63	6.9	37.3	2.4	95	<0.1	1.0	1.6	10	0.72	0.225
32751	Drill Core	6.03	2.1	29.0	5.2	8	<0.1	13.0	21.7	280	4.34	5.0	34.9	1.3	258	<0.1	0.7	1.3	27	1.83	0.144
32752	Drill Core	3.38	1.7	29.2	6.9	14	<0.1	10.6	18.1	243	4.00	7.2	47.0	1.4	600	<0.1	1.0	1.7	29	1.18	0.153

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	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
32724	Drill Core	2	4	0.02	30	<0.001	<1	0.40	0.074	0.12	0.1	0.02	0.6	0.2	7.96	<1	6.7	0.7	
32725	Drill Core	3	2	0.02	33	<0.001	1	0.49	0.063	0.20	<0.1	0.02	2.6	0.2	8.12	<1	6.7	0.5	
32726	Drill Core	6	3	0.06	26	<0.001	2	0.63	0.043	0.27	<0.1	0.03	1.2	0.2	8.22	<1	7.1	0.6	
32727	Drill Core	9	17	0.95	52	0.001	1	1.75	0.053	0.21	<0.1	0.02	3.9	0.1	4.41	6	2.5	0.2	
32728	Drill Core	5	6	0.76	35	<0.001	2	1.46	0.047	0.31	<0.1	0.04	1.3	0.2	6.84	2	6.2	0.6	
32729	Drill Core	4	2	0.20	39	<0.001	1	0.70	0.048	0.20	<0.1	0.04	0.9	0.2	7.02	1	5.4	0.7	
32730	Drill Core	3	2	0.02	33	0.001	3	0.47	0.043	0.23	<0.1	0.04	1.5	0.2	6.50	1	5.0	0.6	
32731	Drill Core	2	2	0.03	46	<0.001	2	0.57	0.052	0.21	<0.1	0.07	1.8	0.2	5.84	<1	5.6	0.4	
32732	Drill Core	1	2	0.02	27	<0.001	2	0.39	0.043	0.18	<0.1	0.06	1.0	0.3	8.18	<1	5.0	0.6	
32733	Drill Core	<1	1	0.02	40	0.001	2	0.33	0.033	0.17	<0.1	0.05	1.2	0.2	6.35	<1	3.2	0.6	
32734	Drill Core	2	3	0.08	45	<0.001	2	0.46	0.040	0.21	<0.1	0.07	1.1	0.2	5.36	<1	1.5	0.4	
32735	Drill Core	5	9	1.30	34	0.001	3	1.79	0.051	0.24	<0.1	0.06	1.6	0.2	4.75	5	1.6	0.4	
32736	Drill Core	11	7	0.98	37	0.001	2	1.55	0.065	0.29	<0.1	0.05	1.2	0.3	5.12	3	2.2	0.7	
32737	Drill Core	5	4	0.64	33	0.001	4	1.14	0.042	0.28	<0.1	0.07	1.1	0.3	7.22	2	4.2	0.9	
32738	Rock Pulp	4	29	0.75	89	0.105	2	1.51	0.070	0.12	11.1	0.01	4.2	<0.1	<0.05	4	<0.5	<0.2	
32739	Drill Core	2	3	0.02	27	<0.001	3	0.43	0.028	0.24	<0.1	0.11	1.2	0.5	7.24	<1	3.5	0.7	
32740	Drill Core	<1	3	0.01	19	<0.001	3	0.28	0.017	0.16	<0.1	0.14	0.9	0.2	6.88	<1	3.6	0.5	
32741	Drill Core	<1	2	0.02	25	<0.001	4	0.47	0.033	0.27	<0.1	0.28	2.1	0.2	6.97	<1	4.3	0.8	
32742	Drill Core	2	2	0.05	26	<0.001	3	0.43	0.033	0.25	<0.1	0.25	1.6	0.2	6.72	<1	3.2	0.9	
32743	Drill Core	3	2	0.08	32	<0.001	3	0.72	0.036	0.35	<0.1	0.24	1.9	0.3	6.62	<1	4.9	0.7	
32744	Drill Core	6	2	0.03	34	0.001	3	0.59	0.027	0.31	<0.1	0.18	1.8	0.2	7.56	<1	3.7	0.7	
32745	Drill Core	4	2	0.02	27	<0.001	4	0.48	0.026	0.29	<0.1	0.33	1.1	0.3	6.98	<1	3.4	0.8	
32746	Drill Core	10	3	0.07	27	<0.001	4	0.62	0.046	0.33	<0.1	0.38	1.6	0.3	5.40	<1	6.9	0.8	
32747	Drill Core	6	6	0.50	30	0.001	3	1.20	0.091	0.32	<0.1	0.36	1.9	0.4	5.63	2	4.6	0.8	
32748	Drill Core	6	15	1.06	42	0.002	3	1.59	0.093	0.27	<0.1	0.44	2.5	0.3	3.69	5	2.4	1.2	
32749	Drill Core	3	3	0.05	18	0.001	3	0.48	0.027	0.29	<0.1	0.38	0.8	0.4	7.08	1	5.2	1.1	
32750	Drill Core	10	3	0.08	44	0.002	5	0.83	0.031	0.49	<0.1	0.16	2.2	0.4	4.44	1	5.2	0.7	
32751	Drill Core	8	6	0.37	28	0.002	2	0.86	0.087	0.35	<0.1	0.39	3.0	0.3	5.43	2	4.6	0.8	
32752	Drill Core	7	8	0.61	33	0.003	4	1.20	0.062	0.46	<0.1	0.28	2.7	0.4	4.53	3	3.9	0.8	

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QUALITY CONTROL REPORT SMI12000004.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
REP G1-SMI	QC		0.2	3.6	3.3	45	<0.1	3.1	4.0	564	1.99	<0.5	<0.5	6.7	69	<0.1	<0.1	<0.1	36	0.51	0.077
32666	Drill Core	4.40	7.5	91.4	11.7	29	0.3	19.6	33.3	1581	5.08	209.5	243.7	0.6	121	0.1	2.3	<0.1	56	5.48	0.166
REP 32666	QC		6.9	89.5	11.5	28	0.2	18.6	32.7	1552	4.98	206.9	241.9	0.6	116	<0.1	2.1	<0.1	53	5.35	0.158
32677	Drill Core	5.22	3.8	162.9	6.1	42	0.2	15.9	40.5	1234	5.51	8.8	42.5	1.0	327	<0.1	0.7	<0.1	93	4.02	0.183
REP 32677	QC		4.0	167.8	6.1	38	0.2	15.1	40.3	1260	5.60	9.3	45.3	1.1	333	<0.1	0.8	<0.1	95	4.04	0.179
32692	Drill Core	3.33	0.4	26.3	2.0	36	<0.1	10.6	17.5	1500	3.87	4.4	42.5	0.7	852	<0.1	0.5	<0.1	128	4.80	0.136
REP 32692	QC		0.4	24.7	1.9	33	0.1	11.9	17.4	1525	3.88	3.9	41.0	0.8	867	<0.1	0.5	<0.1	129	4.81	0.135
32714	Drill Core	5.26	2.4	129.4	19.2	35	0.2	12.6	24.5	329	5.26	3.3	15.6	1.0	519	<0.1	0.8	0.4	43	4.88	0.133
REP 32714	QC		2.7	133.3	20.2	36	0.2	13.9	25.9	343	5.45	3.7	15.9	1.0	504	<0.1	0.8	0.4	45	4.94	0.139
32728	Drill Core	4.83	1.1	63.6	5.4	19	<0.1	8.2	15.1	137	4.23	2.9	7.1	1.4	555	<0.1	0.4	0.4	18	3.34	0.126
REP 32728	QC		1.4	63.9	5.4	19	<0.1	8.2	15.2	143	4.25	2.9	8.1	1.4	564	<0.1	0.4	0.4	18	3.33	0.124
32740	Drill Core	4.71	3.4	13.3	7.2	4	<0.1	6.6	14.2	6	2.58	8.0	5.0	0.3	632	<0.1	1.2	1.0	5	4.79	0.060
REP 32740	QC		2.9	13.6	7.4	4	<0.1	7.0	14.4	6	2.56	8.0	4.0	0.3	634	<0.1	1.2	1.1	5	4.81	0.059
32748	Drill Core	5.52	1.2	74.9	3.5	22	<0.1	10.1	18.4	499	4.03	7.0	26.0	1.3	218	<0.1	0.7	0.1	43	2.23	0.151
REP 32748	QC		1.2	77.3	3.5	23	<0.1	10.4	18.3	518	4.07	7.3	26.7	1.4	222	<0.1	0.6	0.1	44	2.25	0.149
Core Reject Duplicates																					
32649	Drill Core	3.47	3.4	83.1	10.7	54	0.2	21.1	27.0	1590	5.92	260.3	281.9	0.9	78	0.1	1.1	<0.1	128	3.52	0.181
DUP 32649	QC		3.2	80.2	10.1	54	0.2	21.3	27.2	1590	5.86	254.4	272.3	0.8	76	0.1	1.0	<0.1	130	3.47	0.177
32684	Drill Core	3.29	3.9	84.0	10.0	13	0.2	15.5	34.4	262	5.72	8.4	81.2	0.6	543	0.1	0.8	0.1	33	3.89	0.200
DUP 32684	QC		4.2	85.9	9.9	11	0.2	17.1	33.6	267	5.68	8.1	76.2	0.6	540	<0.1	0.8	0.2	35	3.90	0.210
32719	Drill Core	4.49	2.5	104.0	10.5	23	0.1	16.8	25.0	237	4.22	4.1	14.5	0.9	481	<0.1	0.6	1.1	40	5.26	0.172
DUP 32719	QC		2.5	107.4	10.6	25	0.1	17.3	24.7	259	4.35	4.2	13.6	0.9	483	<0.1	0.6	1.1	42	5.29	0.173
Reference Materials																					
STD AGPROOF	Standard																				
STD AGPROOF	Standard																				
STD AGPROOF	Standard																				
STD DS8	Standard		13.3	110.2	124.2	315	1.8	37.9	7.4	622	2.46	24.6	113.6	7.5	61	2.3	5.6	6.9	40	0.73	0.082
STD DS8	Standard		12.5	105.2	125.4	301	1.8	35.3	7.2	583	2.33	24.5	107.2	7.1	59	2.3	5.3	6.9	39	0.67	0.077

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AcmeLabs Acme Analytical Laboratories (Vancouver) Ltd.
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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: February 13, 2012

QUALITY CONTROL REPORT SMI12000004.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	G6Gr
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
Pulp Duplicates																			
REP G1-SMI	QC	15	11	0.49	155	0.126	2	0.99	0.125	0.51	<0.1	<0.01	2.3	0.3	<0.05	5	<0.5	<0.2	
32666	Drill Core	5	8	1.60	42	0.002	3	1.02	0.010	0.38	0.2	0.46	9.9	0.2	4.35	2	0.9	0.6	<0.9
REP 32666	QC	5	8	1.58	33	0.001	2	0.92	0.009	0.34	0.2	0.46	9.5	0.1	4.27	2	0.7	0.6	
32677	Drill Core	9	15	2.18	64	0.011	6	2.93	0.033	0.42	<0.1	0.08	9.6	0.1	3.37	7	<0.5	<0.2	
REP 32677	QC	10	15	2.23	63	0.010	6	2.92	0.035	0.44	<0.1	0.11	8.1	0.1	3.39	6	<0.5	<0.2	
32692	Drill Core	11	18	1.37	380	0.013	2	1.51	0.050	0.17	<0.1	0.11	8.1	<0.1	0.40	7	<0.5	0.4	
REP 32692	QC	11	18	1.38	377	0.014	<1	1.53	0.051	0.17	0.1	0.12	7.8	<0.1	0.40	7	<0.5	0.3	
32714	Drill Core	9	12	0.99	36	0.001	3	1.75	0.056	0.30	<0.1	<0.01	2.9	0.3	9.15	4	18.6	1.4	
REP 32714	QC	9	12	1.02	33	0.002	2	1.79	0.057	0.29	<0.1	<0.01	3.0	0.2	9.52	4	19.2	1.5	
32728	Drill Core	5	6	0.76	35	<0.001	2	1.46	0.047	0.31	<0.1	0.04	1.3	0.2	6.84	2	6.2	0.6	
REP 32728	QC	5	6	0.76	37	<0.001	2	1.43	0.047	0.30	<0.1	0.04	1.3	0.2	6.85	2	6.5	0.6	
32740	Drill Core	<1	3	0.01	19	<0.001	3	0.28	0.017	0.16	<0.1	0.14	0.9	0.2	6.88	<1	3.6	0.5	
REP 32740	QC	<1	3	0.01	20	<0.001	2	0.29	0.017	0.16	<0.1	0.15	0.9	0.3	6.91	<1	4.3	0.5	
32748	Drill Core	6	15	1.06	42	0.002	3	1.59	0.093	0.27	<0.1	0.44	2.5	0.3	3.69	5	2.4	1.2	
REP 32748	QC	6	15	1.10	43	0.002	2	1.64	0.096	0.28	<0.1	0.46	2.5	0.3	3.72	4	2.8	1.0	
Core Reject Duplicates																			
32649	Drill Core	10	28	1.98	47	0.003	3	2.42	0.012	0.37	0.1	0.03	8.2	0.2	2.99	7	0.9	0.5	<0.9
DUP 32649	QC	10	28	1.99	38	0.003	3	2.46	0.013	0.39	0.1	0.04	8.2	0.2	2.88	7	0.9	0.4	<0.9
32684	Drill Core	4	4	0.32	26	0.005	4	0.92	0.022	0.41	0.1	0.79	4.5	0.1	8.55	2	1.5	2.0	
DUP 32684	QC	5	4	0.33	26	0.006	4	0.96	0.022	0.43	0.1	0.72	4.9	0.1	8.61	2	3.2	2.2	
32719	Drill Core	4	10	0.81	33	0.001	2	1.43	0.053	0.26	<0.1	0.05	3.7	0.3	8.46	3	10.2	0.8	
DUP 32719	QC	5	11	0.86	32	<0.001	1	1.49	0.053	0.26	<0.1	0.05	3.7	0.3	8.44	3	11.4	0.9	
Reference Materials																			
STD AGPROOF	Standard																		<0.9
STD AGPROOF	Standard																		<0.9
STD AGPROOF	Standard																		<0.9
STD DS8	Standard	16	118	0.62	276	0.121	3	0.96	0.091	0.43	2.9	0.21	2.4	5.4	0.20	5	4.8	5.2	
STD DS8	Standard	14	112	0.58	259	0.113	3	0.88	0.081	0.40	2.9	0.20	2.3	5.5	0.15	4	5.3	4.3	

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: February 13, 2012

QUALITY CONTROL REPORT SMI12000004.1

		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
STD DS8	Standard		12.6	110.4	123.1	315	1.8	38.9	7.5	602	2.50	24.8	113.0	7.1	66	2.5	5.2	7.0	42	0.71	0.081
STD DS8	Standard		12.8	103.6	123.1	303	1.8	39.0	7.4	679	2.47	22.3	109.2	7.0	65	2.1	5.5	6.7	40	0.71	0.079
STD SP49	Standard																				
STD SP49	Standard																				
STD SP49	Standard																				
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
STD SP49 Expected																					
STD AGPROOF Expected																					
BLK	Blank		<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
G1-SMI	Prep Blank																				
G1-SMI	Prep Blank		0.4	4.1	3.2	50	<0.1	4.1	4.3	611	2.11	<0.5	<0.5	6.9	78	<0.1	<0.1	<0.1	39	0.54	0.082
G1-SMI	Prep Blank		0.3	3.7	3.2	46	<0.1	3.0	3.9	553	1.96	<0.5	2.1	6.3	66	<0.1	<0.1	<0.1	36	0.50	0.076

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: February 13, 2012

QUALITY CONTROL REPORT SMI12000004.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	G6Gr
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
STD DS8	Standard	14	118	0.61	275	0.115	2	0.93	0.104	0.44	3.0	0.19	2.3	5.7	0.16	4	5.1	5.2	
STD DS8	Standard	14	118	0.62	275	0.109	2	0.93	0.093	0.43	2.6	0.19	2.7	5.3	0.16	4	5.5	5.0	
STD SP49	Standard																		18.5
STD SP49	Standard																		18.2
STD SP49	Standard																		18.6
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5	
STD SP49 Expected																			18.34
STD AGPROOF Expected																			0
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank																		<0.9
BLK	Blank																		<0.9
BLK	Blank																		<0.9
BLK	Blank																		<0.9
BLK	Blank																		<0.9
Prep Wash																			
G1-SMI	Prep Blank																		
G1-SMI	Prep Blank	14	8	0.50	178	0.134	<1	1.10	0.157	0.56	<0.1	<0.01	2.5	0.3	<0.05	5	<0.5	<0.2	
G1-SMI	Prep Blank	14	11	0.48	153	0.123	1	0.97	0.122	0.50	<0.1	<0.01	2.3	0.3	<0.05	5	<0.5	<0.2	

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Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Submitted By:	Ross Zawada
Receiving Lab:	Canada-Smithers
Received:	January 26, 2012
Report Date:	February 10, 2012
Page:	1 of 6

CERTIFICATE OF ANALYSIS SMI12000005.1

CLIENT JOB INFORMATION

Project:	CAPTAIN
Shipment ID:	Cap 2012-01
P.O. Number	
Number of Samples:	133

SAMPLE DISPOSAL

STOR-PLP	Store After 90 days Invoice for Storage
STOR-RJT	Store After 90 days Invoice for Storage

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	127	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1DX2	133	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
G6Gr	4	Lead collection fire assay 30G fusion - Grav finish	30	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Orestone Mining Corp.
750-625 Howe St.
Vancouver BC V4A 9T8
Canada

CC: Erica Vargas
Gary Nordin

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: February 10, 2012

CERTIFICATE OF ANALYSIS SMI12000005.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
32753	Drill Core	4.54	26.1	82.3	17.8	57	1.0	22.9	18.4	1072	2.89	31.8	122.6	0.8	1214	0.4	1.7	0.1	68	5.23	0.157
32754	Drill Core	5.64	0.6	41.5	4.9	45	0.1	24.8	15.6	1000	3.07	4.0	28.5	1.2	867	0.1	0.5	<0.1	81	4.84	0.160
32755	Drill Core	3.85	0.7	27.3	6.4	46	0.1	18.5	16.5	1037	2.63	16.6	38.2	0.9	2335	<0.1	0.3	<0.1	57	4.81	0.136
32756	Drill Core	4.73	54.7	108.2	28.7	41	0.8	22.8	29.6	562	6.51	38.2	51.6	0.6	798	0.4	4.0	0.1	66	3.62	0.174
32757	Drill Core	4.26	1.4	133.7	3.8	37	0.1	17.4	24.5	834	4.88	8.3	17.1	0.9	575	<0.1	0.7	<0.1	202	4.54	0.180
32758	Drill Core	5.14	4.0	40.9	14.1	34	0.4	24.8	33.8	379	7.81	15.4	52.2	0.6	409	<0.1	1.6	0.5	135	2.83	0.152
32759	Drill Core	5.44	5.5	44.4	18.5	19	0.5	38.3	40.3	207	11.69	13.8	51.7	0.9	204	<0.1	1.7	0.2	176	1.40	0.100
32760	Drill Core	4.66	3.7	39.3	11.6	20	0.4	44.8	36.5	292	8.65	12.7	92.3	0.8	296	<0.1	1.2	0.6	126	2.30	0.121
32761	Drill Core	4.13	1.7	595.8	4.1	46	0.5	19.0	31.5	958	5.62	9.1	60.4	1.2	184	<0.1	0.4	0.5	271	3.41	0.178
32762	Drill Core	4.74	2.9	66.0	9.8	42	0.3	20.5	32.6	706	6.27	16.4	97.9	0.9	203	<0.1	1.0	0.4	237	2.52	0.194
32763	Drill Core	3.79	2.3	104.8	10.3	37	0.3	45.6	34.8	492	5.87	9.8	34.8	1.0	299	<0.1	1.3	<0.1	204	2.06	0.188
32764	Drill Core	5.80	29.1	73.7	12.5	39	0.3	39.2	35.9	579	6.99	26.5	36.4	0.9	175	<0.1	1.4	0.2	187	2.38	0.215
32765	Drill Core	4.78	0.1	31.5	6.6	38	<0.1	11.2	12.1	1089	3.18	1.7	8.4	0.8	836	<0.1	0.2	<0.1	118	4.11	0.095
32766	Drill Core	5.32	0.2	18.8	3.4	36	<0.1	12.1	12.0	1035	3.22	1.8	4.7	0.7	1120	<0.1	0.3	<0.1	115	4.28	0.093
32767	Rock Pulp	0.15	292.3	3062	10.2	55	1.0	24.8	11.7	463	2.90	5.6	208.7	2.3	35	0.5	2.5	0.2	62	0.97	0.062
32768	Drill Core	5.08	11.2	97.9	10.1	41	0.4	17.6	31.9	922	5.40	23.5	31.4	0.6	302	<0.1	1.6	0.1	143	3.21	0.194
32769	Drill Core	4.06	360.0	163.2	32.2	35	1.6	25.9	40.9	776	7.17	27.8	121.0	0.5	357	<0.1	4.9	0.2	110	3.37	0.190
32770	Drill Core	4.62	40.0	81.2	11.0	42	0.8	34.3	33.7	873	4.72	18.3	74.2	0.6	214	<0.1	3.8	0.3	108	3.18	0.129
32771	Drill Core	4.80	24.6	51.0	13.8	43	0.4	38.0	41.8	1124	5.50	16.0	61.0	0.5	220	0.1	2.4	0.7	129	4.01	0.085
32772	Drill Core	3.38	4.8	167.7	7.3	46	0.4	36.0	30.6	1386	4.85	11.9	33.1	0.7	470	<0.1	1.5	<0.1	184	5.36	0.152
32773	Drill Core	5.26	1.2	141.1	3.6	52	0.2	39.2	33.9	1614	5.02	11.1	17.9	0.8	429	<0.1	0.3	<0.1	230	3.43	0.174
32774	Drill Core	5.09	4.2	57.8	9.2	26	0.2	38.8	33.2	555	4.88	14.5	25.4	0.5	358	<0.1	0.7	<0.1	186	3.88	0.158
32775	Drill Core	4.87	24.0	39.5	9.0	18	0.1	33.5	26.3	321	3.93	10.0	24.3	0.6	557	0.2	0.5	0.1	122	6.93	0.163
32776	Drill Core	5.15	4.9	95.9	6.4	34	<0.1	45.3	29.0	895	4.31	5.7	8.9	0.7	166	0.1	0.4	<0.1	132	4.08	0.212
32777	Drill Core	5.41	1.6	76.1	4.5	41	<0.1	53.1	32.0	976	4.33	4.3	6.5	0.6	133	<0.1	0.5	<0.1	121	4.27	0.195
32778	Drill Core	4.99	8.9	129.6	9.3	13	0.2	49.9	38.2	273	10.02	15.2	17.0	0.8	95	<0.1	1.7	0.1	97	1.78	0.138
32779	Drill Core	5.24	7.4	173.2	15.9	20	0.2	50.5	36.7	350	8.89	9.1	10.8	0.6	222	0.4	1.4	0.1	174	2.55	0.124
32780	Drill Core	5.24	1.3	72.9	6.9	52	0.2	48.5	32.9	948	4.98	9.4	18.3	0.6	425	<0.1	0.4	0.2	229	2.77	0.156
32781	Drill Core	4.68	9.3	39.8	8.4	25	0.2	45.4	30.4	475	4.92	10.9	32.1	0.5	503	<0.1	0.5	0.4	125	4.87	0.156
32782	Rock Pulp	0.15	16.3	37.7	17.3	19	0.4	11.9	7.0	49	2.91	488.3	238.0	0.9	25	0.5	24.0	0.2	10	1.01	0.005

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: February 10, 2012

CERTIFICATE OF ANALYSIS SMI12000005.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	G6Gr
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
32753	Drill Core	7	28	1.49	217	0.003	3	1.14	0.046	0.42	0.4	0.71	11.0	0.3	0.94	3	0.6	1.2	
32754	Drill Core	10	39	1.49	313	0.008	5	1.25	0.059	0.44	0.4	0.52	12.2	<0.1	0.41	3	<0.5	<0.2	
32755	Drill Core	7	20	1.24	462	0.002	2	1.14	0.057	0.36	0.2	0.25	10.2	<0.1	0.39	3	<0.5	0.4	
32756	Drill Core	2	15	0.65	27	0.004	2	0.85	0.038	0.38	0.2	0.72	10.3	0.3	8.14	2	4.9	2.0	
32757	Drill Core	8	48	2.56	92	0.098	2	2.64	0.118	0.43	0.2	0.31	11.3	0.2	2.54	9	0.5	0.6	
32758	Drill Core	5	41	1.09	22	0.005	2	1.08	0.061	0.33	<0.1	1.11	10.2	0.3	8.93	5	6.5	2.4	
32759	Drill Core	4	86	0.88	19	0.011	4	1.00	0.070	0.46	<0.1	0.57	13.1	0.4	>10	5	8.7	2.1	
32760	Drill Core	4	106	0.77	20	0.007	2	0.66	0.070	0.22	0.1	0.61	9.6	0.2	9.70	4	9.6	3.5	
32761	Drill Core	10	34	2.64	65	0.099	<1	2.10	0.101	0.24	1.1	0.21	13.6	<0.1	4.93	11	2.7	1.7	
32762	Drill Core	10	46	2.63	44	0.059	<1	1.85	0.117	0.21	0.3	0.15	12.3	0.1	6.68	9	3.1	1.6	
32763	Drill Core	10	133	2.61	45	0.015	<1	1.92	0.117	0.20	<0.1	0.08	12.9	0.1	6.12	9	3.6	1.1	
32764	Drill Core	11	100	1.62	37	0.016	1	1.32	0.084	0.33	<0.1	0.30	12.4	0.2	7.76	7	6.9	1.7	
32765	Drill Core	14	26	1.05	150	0.010	<1	1.51	0.061	0.22	<0.1	0.02	4.8	<0.1	0.32	8	<0.5	<0.2	
32766	Drill Core	12	33	1.19	250	0.011	1	1.48	0.049	0.23	<0.1	0.03	5.8	<0.1	0.32	7	<0.5	<0.2	
32767	Rock Pulp	7	31	0.77	125	0.144	3	1.60	0.095	0.21	10.3	0.03	5.1	<0.1	0.42	5	0.7	<0.2	<0.9
32768	Drill Core	6	27	1.93	47	0.018	3	1.18	0.048	0.56	0.1	0.48	14.8	0.4	5.81	5	1.8	0.8	
32769	Drill Core	4	23	1.50	33	0.007	3	0.99	0.056	0.33	0.2	1.56	11.9	0.7	7.93	5	4.1	2.9	
32770	Drill Core	4	72	2.23	56	0.019	1	1.08	0.059	0.51	<0.1	1.25	12.1	0.4	5.30	4	3.9	2.2	
32771	Drill Core	3	79	2.33	45	0.015	<1	1.14	0.054	0.48	<0.1	1.05	12.0	0.4	6.55	4	6.5	2.0	
32772	Drill Core	4	106	2.96	35	0.073	<1	1.76	0.076	0.92	<0.1	0.28	17.3	0.5	5.67	7	1.8	0.9	
32773	Drill Core	5	126	3.66	61	0.175	1	3.32	0.237	1.68	<0.1	0.04	18.0	1.0	2.24	10	0.5	0.3	
32774	Drill Core	4	113	2.68	35	0.083	3	1.99	0.128	0.93	<0.1	0.17	14.3	0.6	6.93	7	2.1	1.4	
32775	Drill Core	3	78	1.16	45	0.045	2	1.18	0.070	0.72	<0.1	0.21	10.9	0.4	9.14	5	2.0	1.4	
32776	Drill Core	4	94	2.08	89	0.183	2	2.18	0.071	0.98	0.2	0.10	11.3	0.2	3.60	7	2.1	0.5	
32777	Drill Core	4	104	2.46	110	0.203	2	2.35	0.072	0.87	0.3	0.29	10.7	0.2	2.62	6	1.3	0.5	
32778	Drill Core	2	68	0.52	37	0.008	6	1.35	0.057	0.80	<0.1	0.83	12.9	0.6	>10	4	7.9	4.2	
32779	Drill Core	3	122	1.13	40	0.036	3	1.30	0.062	0.72	<0.1	0.10	15.9	0.6	>10	6	9.0	2.9	
32780	Drill Core	4	133	4.10	39	0.105	<1	2.78	0.197	1.17	<0.1	0.02	17.5	0.8	6.33	10	1.0	0.7	
32781	Drill Core	3	95	1.39	41	0.032	<1	1.05	0.066	0.64	<0.1	0.11	10.5	0.3	9.00	4	3.6	1.2	
32782	Rock Pulp	2	19	0.03	964	0.010	1	0.19	0.009	0.07	25.5	2.70	0.7	12.2	0.14	<1	1.5	<0.2	<0.9

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: February 10, 2012

CERTIFICATE OF ANALYSIS SMI12000005.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
32783	Drill Core	5.20	2.2	178.3	5.6	31	0.1	56.1	31.5	755	4.34	11.7	11.2	0.6	297	<0.1	0.6	<0.1	125	3.57	0.165
32784	Drill Core	4.70	3.9	97.3	9.6	35	0.2	55.7	30.4	819	6.15	17.1	27.5	0.5	679	<0.1	0.9	<0.1	153	4.63	0.151
32785	Drill Core	4.42	4.3	134.4	7.1	33	0.2	55.3	30.6	664	5.12	16.4	25.0	0.7	483	<0.1	0.9	<0.1	158	3.56	0.151
32786	Drill Core	5.12	1.7	109.5	4.7	57	0.2	45.8	27.4	1666	5.31	11.5	36.2	0.6	248	<0.1	0.5	<0.1	200	3.35	0.162
32787	Drill Core	5.09	0.6	239.5	3.2	61	0.2	37.7	26.1	2007	4.89	5.3	20.3	0.6	350	<0.1	0.3	<0.1	191	4.26	0.167
32788	Drill Core	5.12	1.2	114.3	5.1	55	0.1	52.7	29.8	1193	5.00	8.4	18.2	0.7	171	<0.1	0.6	<0.1	166	2.84	0.173
32789	Drill Core	5.21	2.0	126.6	7.1	58	0.2	51.9	29.8	1021	5.50	9.8	19.2	0.7	167	<0.1	0.7	<0.1	172	3.85	0.145
32790	Drill Core	7.46	4.3	57.6	4.5	68	0.2	51.8	26.3	1136	5.32	12.6	15.5	0.7	320	<0.1	0.5	0.6	174	3.21	0.164
32791	Drill Core	5.41	24.7	51.0	13.7	66	0.3	49.5	28.1	1253	6.12	11.6	29.2	0.5	630	0.3	1.0	0.7	177	5.39	0.144
32792	Drill Core	5.26	1.3	116.7	4.6	37	0.2	53.8	31.8	919	5.20	6.2	17.6	0.9	168	<0.1	0.5	<0.1	170	2.79	0.170
32793	Drill Core	5.39	12.4	87.7	15.1	48	0.7	45.8	28.0	1535	8.36	13.6	74.1	0.5	1008	<0.1	1.8	0.5	125	6.03	0.125
32794	Drill Core	4.68	2.3	79.6	10.9	40	0.3	45.1	27.0	783	7.27	8.8	15.5	0.5	367	<0.1	0.8	<0.1	171	4.57	0.133
32795	Drill Core	5.19	2.0	118.1	6.3	51	0.2	47.4	29.3	1479	6.48	9.0	16.1	0.5	432	<0.1	0.5	<0.1	188	4.98	0.138
32796	Drill Core	4.87	1.6	117.8	3.7	46	0.2	45.7	31.4	1413	5.16	7.8	14.5	0.9	186	<0.1	0.4	<0.1	181	3.24	0.162
32797	Rock Pulp	0.14	2.4	26.2	2.8	46	0.3	23.1	10.4	414	2.47	4.8	<0.5	0.9	39	0.2	0.3	<0.1	63	0.81	0.063
32798	Drill Core	4.42	1.0	135.7	2.7	44	0.2	46.2	28.6	1316	5.02	5.7	7.5	0.9	453	<0.1	0.3	<0.1	185	3.25	0.168
32799	Drill Core	5.14	4.3	104.8	251.6	113	0.6	39.1	23.7	2427	4.71	4.7	22.5	0.6	491	0.6	0.3	0.9	177	3.32	0.150
32800	Drill Core	4.70	9.3	29.0	12.2	100	0.2	35.0	20.3	2373	5.92	3.1	27.0	0.6	553	<0.1	0.3	0.8	179	5.00	0.148
812351	Drill Core	4.59	3.9	77.7	6.2	69	0.1	45.4	30.4	982	5.07	4.8	18.8	0.6	247	<0.1	0.3	0.6	227	2.96	0.171
812352	Drill Core	4.97	3.6	58.2	6.0	37	0.2	46.0	32.9	723	5.76	6.3	15.0	0.6	243	<0.1	0.4	0.5	183	3.64	0.171
812353	Drill Core	5.42	1.6	54.1	4.6	21	0.1	42.1	29.5	563	4.77	6.4	26.3	0.9	128	<0.1	0.5	0.3	138	2.59	0.178
812354	Drill Core	4.00	1.3	84.9	9.5	33	0.2	44.0	32.2	696	5.04	6.6	23.3	0.8	122	<0.1	0.5	0.4	154	3.13	0.172
812355	Drill Core	5.93	1.7	106.1	10.9	27	0.2	43.9	31.6	591	5.69	5.9	19.7	0.6	120	<0.1	0.4	0.5	184	2.44	0.161
812356	Drill Core	4.98	0.6	90.5	3.4	26	0.1	39.7	29.7	754	4.29	4.5	17.5	0.9	661	<0.1	0.4	0.2	145	2.95	0.169
812357	Drill Core	4.96	0.7	110.5	2.7	25	0.1	41.3	28.2	693	4.33	4.2	12.2	0.9	117	<0.1	0.3	0.1	140	2.61	0.170
812358	Drill Core	5.66	1.0	131.5	4.4	28	0.2	37.0	28.4	731	4.60	4.9	9.7	1.1	123	<0.1	0.4	0.4	150	2.33	0.169
812359	Drill Core	5.12	47.9	148.2	41.1	54	0.7	20.6	18.6	1820	5.47	15.9	67.7	0.4	1069	0.3	2.0	1.5	127	7.65	0.105
812360	Drill Core	4.80	3.9	42.5	8.1	56	0.1	34.3	25.2	844	4.73	4.7	22.8	0.5	509	<0.1	0.3	0.6	186	3.67	0.152
812361	Drill Core	2.46	9.4	159.3	11.2	57	0.4	31.9	26.9	1420	4.96	4.1	33.6	0.6	817	0.1	0.6	0.8	174	5.40	0.151
812362	Drill Core	2.33	9.1	114.5	10.4	61	0.4	30.2	26.3	1526	4.90	3.6	30.0	0.7	937	0.2	0.5	0.6	180	5.82	0.145

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Report Date: February 10, 2012

CERTIFICATE OF ANALYSIS SMI12000005.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	G6Gr
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
32783	Drill Core	3	92	2.27	45	0.044	1	1.64	0.054	0.80	<0.1	0.14	10.7	0.5	7.20	6	2.2	0.6	
32784	Drill Core	4	120	2.37	33	0.030	<1	1.36	0.081	0.44	<0.1	1.19	11.9	0.4	9.72	6	3.6	1.0	
32785	Drill Core	5	120	2.15	29	0.064	2	1.35	0.064	0.21	0.1	0.68	10.2	0.2	8.01	6	2.9	0.8	
32786	Drill Core	5	109	2.92	62	0.063	<1	1.89	0.080	0.25	<0.1	0.05	12.9	0.1	4.20	10	2.3	0.8	
32787	Drill Core	7	85	2.73	121	0.115	1	2.10	0.089	0.63	0.1	0.02	11.7	0.2	1.99	10	0.9	0.3	
32788	Drill Core	4	110	2.83	54	0.197	1	2.16	0.198	1.37	0.2	0.07	7.6	0.6	3.65	8	0.9	0.6	
32789	Drill Core	5	122	2.13	34	0.167	<1	1.32	0.094	0.91	0.2	0.23	12.5	0.5	6.98	7	2.6	0.5	
32790	Drill Core	5	103	2.65	37	0.126	1	1.77	0.110	1.19	0.3	0.16	13.2	0.5	4.67	8	2.6	0.7	
32791	Drill Core	4	106	2.33	29	0.046	1	1.26	0.075	0.88	<0.1	0.40	15.5	0.5	7.68	6	4.3	1.8	
32792	Drill Core	6	109	2.98	52	0.208	2	2.12	0.235	1.22	0.2	0.06	9.3	0.5	3.69	8	0.9	0.6	
32793	Drill Core	4	78	1.66	29	0.078	<1	1.09	0.081	0.60	<0.1	1.46	12.8	0.7	9.06	6	4.4	2.4	
32794	Drill Core	3	107	2.58	34	0.083	1	1.50	0.079	0.92	<0.1	1.33	13.7	0.5	9.55	7	2.8	1.3	
32795	Drill Core	4	111	3.19	31	0.147	1	1.97	0.096	1.59	<0.1	0.31	13.7	0.7	7.72	8	1.6	0.7	
32796	Drill Core	5	112	3.57	59	0.202	1	2.41	0.187	1.77	0.2	0.06	10.5	0.9	3.71	9	<0.5	0.4	
32797	Rock Pulp	4	32	0.78	96	0.119	2	1.54	0.078	0.12	11.9	<0.01	4.3	<0.1	<0.05	5	<0.5	<0.2	
32798	Drill Core	6	111	3.55	67	0.204	1	2.51	0.231	1.77	0.1	0.04	10.0	0.8	2.73	10	<0.5	0.4	
32799	Drill Core	4	110	3.44	49	0.102	<1	1.73	0.124	1.42	0.2	0.07	17.0	0.5	4.49	8	3.0	0.8	
32800	Drill Core	4	98	2.72	28	0.058	<1	0.97	0.062	0.79	0.2	0.11	16.6	0.3	6.87	5	6.0	0.6	
812351	Drill Core	4	128	4.47	48	0.109	1	2.35	0.093	2.07	<0.1	<0.01	20.6	0.8	4.04	11	2.1	0.6	
812352	Drill Core	5	119	2.93	33	0.099	1	1.72	0.126	0.81	0.2	0.02	12.8	0.4	5.78	8	2.6	1.3	
812353	Drill Core	4	100	2.57	80	0.212	2	1.74	0.194	0.84	0.5	0.04	6.2	0.5	4.26	7	1.2	2.2	
812354	Drill Core	5	113	2.90	64	0.215	2	1.59	0.143	0.55	0.4	0.04	10.0	0.3	4.96	7	4.1	2.0	
812355	Drill Core	5	122	3.28	25	0.174	1	1.65	0.161	0.91	0.3	0.07	13.4	0.5	6.78	7	5.6	2.1	
812356	Drill Core	5	106	2.90	50	0.224	2	1.93	0.144	0.95	0.3	0.02	5.6	0.5	3.50	8	2.4	1.4	
812357	Drill Core	5	100	2.53	97	0.200	3	1.86	0.140	1.01	0.3	0.01	4.9	0.5	2.66	8	2.8	0.9	
812358	Drill Core	5	91	2.38	95	0.209	2	1.78	0.179	1.10	0.4	0.01	5.9	0.6	3.20	7	2.2	1.4	
812359	Drill Core	6	52	1.69	44	0.052	<1	0.91	0.041	0.54	0.2	0.01	11.0	0.4	7.70	5	5.5	1.4	
812360	Drill Core	3	95	3.22	29	0.076	<1	1.74	0.080	1.19	<0.1	0.03	16.6	0.6	5.37	8	2.4	1.0	
812361	Drill Core	5	88	2.37	41	0.101	<1	1.41	0.072	0.96	0.2	0.02	14.4	0.4	4.84	7	2.8	1.2	
812362	Drill Core	5	89	2.48	52	0.103	2	1.50	0.081	1.03	0.1	0.03	15.3	0.5	4.69	7	2.4	1.0	

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: February 10, 2012

CERTIFICATE OF ANALYSIS SMI12000005.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
812363	Drill Core	5.21	16.5	30.4	12.5	41	0.2	34.5	29.1	987	4.82	5.2	30.1	0.8	381	<0.1	0.6	0.7	156	4.10	0.170
812364	Drill Core	2.64	0.8	92.9	5.7	20	0.1	35.7	29.9	568	4.74	5.0	19.6	0.8	157	<0.1	0.4	<0.1	169	2.64	0.168
812365	Drill Core	5.12	1.6	69.8	7.3	18	0.1	31.2	26.1	511	4.50	4.6	11.6	0.5	268	<0.1	0.4	0.1	185	4.87	0.147
812366	Drill Core	7.24	0.9	98.0	5.8	18	0.1	33.7	28.1	470	4.85	4.0	8.5	0.5	262	<0.1	0.3	<0.1	189	3.98	0.155
812367	Drill Core	5.72	1.7	43.4	6.4	23	<0.1	37.3	33.0	511	5.54	6.1	7.8	0.4	332	<0.1	0.5	0.2	209	2.97	0.160
812368	Drill Core	5.25	6.5	18.3	3.9	54	<0.1	39.9	29.7	791	5.03	4.0	9.1	0.5	274	<0.1	0.2	0.2	221	2.82	0.181
812369	Drill Core	5.23	8.4	21.5	4.2	53	<0.1	39.2	30.2	725	5.22	3.6	11.0	0.5	520	<0.1	0.2	0.2	227	2.93	0.179
812370	Drill Core	4.85	2.7	582.3	5.8	36	0.7	34.5	24.8	813	4.08	2.0	18.7	0.5	343	<0.1	0.2	0.1	141	3.64	0.163
812371	Drill Core	4.30	0.9	381.4	4.2	26	0.5	30.9	23.6	825	3.87	2.0	14.9	0.4	245	<0.1	0.4	0.2	120	4.75	0.149
812372	Drill Core	5.13	1.7	69.3	7.1	28	0.1	39.5	33.7	805	5.46	6.5	13.9	0.9	82	<0.1	0.5	0.4	185	3.63	0.190
812373	Drill Core	5.24	2.8	199.9	5.8	26	0.3	17.2	27.0	716	5.03	7.4	19.6	0.9	73	<0.1	0.5	1.0	199	3.32	0.212
812374	Drill Core	5.10	15.3	79.4	5.8	29	0.2	40.3	31.7	708	5.67	12.7	28.7	1.0	78	<0.1	0.6	0.7	194	3.18	0.183
812375	Drill Core	3.79	45.1	43.7	5.2	45	0.1	43.1	29.4	857	6.00	9.7	31.2	1.0	83	<0.1	0.4	0.5	229	3.16	0.186
812376	Drill Core	4.92	74.5	54.5	6.9	37	0.2	40.2	30.2	741	5.80	7.0	34.6	0.9	79	<0.1	0.6	0.6	221	3.49	0.180
812377	Rock Pulp	0.14	276.5	2968	8.9	55	1.0	22.0	10.9	435	2.82	5.0	265.4	1.7	39	0.3	2.3	0.2	58	0.81	0.057
812378	Drill Core	4.01	6.3	24.3	6.8	34	0.1	38.7	31.2	689	6.07	2.7	40.0	0.9	78	<0.1	0.4	0.7	246	2.78	0.168
812379	Drill Core	5.58	1.5	87.1	6.1	34	0.2	22.2	23.5	722	4.49	2.3	21.1	0.9	104	<0.1	0.4	0.5	163	3.10	0.133
812380	Drill Core	4.72	2.5	94.0	5.2	29	0.2	27.8	31.6	909	5.47	8.3	25.3	0.9	148	<0.1	0.6	0.4	155	4.27	0.163
812381	Drill Core	4.81	6.1	22.0	5.5	46	0.1	27.4	28.2	842	5.41	6.0	34.9	1.2	105	<0.1	0.3	0.6	212	3.43	0.179
812382	Drill Core	5.16	4.4	23.8	6.3	54	0.1	26.2	27.3	771	5.26	4.7	28.1	1.1	128	<0.1	0.3	0.5	203	2.76	0.178
812383	Drill Core	5.23	5.3	61.3	7.4	51	0.2	28.5	29.4	779	5.30	6.6	22.5	0.9	236	0.1	0.4	0.3	198	2.82	0.168
812384	Drill Core	5.22	1.0	147.2	2.5	29	0.1	24.8	24.3	683	4.61	7.5	19.7	0.8	92	<0.1	0.5	<0.1	168	2.12	0.178
812385	Drill Core	6.32	1.2	164.7	2.5	28	0.2	25.4	27.9	631	4.63	8.9	22.6	0.8	132	<0.1	0.6	<0.1	155	2.00	0.193
812386	Drill Core	4.46	1.3	122.9	4.7	28	0.1	25.9	28.2	713	4.83	10.2	33.8	0.8	120	<0.1	0.7	0.1	164	2.52	0.192
812387	Drill Core	5.86	1.3	122.9	6.2	27	0.2	26.1	26.9	632	4.76	9.5	47.6	0.8	113	<0.1	0.7	0.2	151	2.19	0.188
812388	Drill Core	4.33	2.0	109.6	7.5	32	0.2	23.9	25.1	596	4.62	10.8	41.5	0.9	95	<0.1	0.8	0.4	158	2.37	0.192
812389	Drill Core	5.41	4.7	82.1	5.6	26	0.2	22.8	26.6	431	4.62	8.2	24.8	0.9	148	<0.1	0.6	0.4	118	2.91	0.177
812390	Drill Core	4.39	2.1	56.3	5.5	3	0.1	20.5	23.9	35	4.79	7.5	7.3	0.7	344	<0.1	0.7	0.2	26	2.55	0.155
812391	Drill Core	4.67	1.2	48.1	5.7	4	<0.1	15.1	20.1	112	3.95	9.8	5.3	0.6	564	<0.1	0.8	0.1	69	4.19	0.152
812392	Rock Pulp	0.15	13.1	31.3	15.1	18	0.5	11.1	6.2	44	2.91	456.1	234.5	0.7	21	0.6	21.2	0.1	10	0.95	0.005

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Project: CAPTAIN
Report Date: February 10, 2012

CERTIFICATE OF ANALYSIS SMI12000005.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	G6Gr
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
812363	Drill Core	6	89	2.55	56	0.191	2	1.52	0.141	0.73	0.4	0.03	10.1	0.4	4.91	7	4.0	1.8	
812364	Drill Core	5	97	3.27	47	0.215	1	1.95	0.195	1.00	0.3	0.01	9.1	0.6	4.50	8	1.5	1.0	
812365	Drill Core	4	94	4.32	38	0.111	2	2.22	0.092	1.35	0.1	0.08	13.6	0.7	7.89	8	3.0	0.9	
812366	Drill Core	4	103	3.74	34	0.113	1	1.88	0.110	1.15	0.1	0.09	14.0	0.7	7.42	8	2.8	0.6	
812367	Drill Core	4	115	3.14	34	0.058	<1	1.59	0.104	0.95	0.2	0.12	15.4	0.6	6.52	7	3.6	1.1	
812368	Drill Core	3	118	4.69	53	0.098	1	2.61	0.093	2.10	<0.1	0.08	18.3	1.1	4.85	11	1.7	0.7	
812369	Drill Core	3	117	4.40	59	0.134	<1	2.74	0.077	2.25	<0.1	0.03	19.4	1.0	5.37	11	2.1	0.7	
812370	Drill Core	4	78	2.36	83	0.176	2	2.03	0.083	1.08	0.5	0.01	10.3	0.3	3.07	8	1.5	0.6	
812371	Drill Core	4	62	1.76	74	0.108	2	1.66	0.112	0.51	0.6	0.04	9.4	0.1	3.07	7	1.3	0.5	
812372	Drill Core	7	107	3.33	46	0.175	3	1.92	0.114	0.65	0.4	0.24	12.7	0.4	4.38	10	2.3	1.5	
812373	Drill Core	6	42	2.66	56	0.247	3	1.97	0.087	0.80	0.7	0.12	11.3	0.5	4.13	10	5.8	1.5	
812374	Drill Core	6	110	3.16	44	0.194	1	1.80	0.135	0.70	0.9	0.40	13.6	0.4	5.17	9	2.1	1.7	
812375	Drill Core	5	110	4.01	39	0.162	2	2.21	0.159	1.06	0.5	0.27	16.2	0.6	5.28	11	2.3	1.5	
812376	Drill Core	6	112	3.18	41	0.169	1	1.73	0.124	0.73	0.5	0.19	16.0	0.5	5.27	9	3.1	1.2	
812377	Rock Pulp	6	27	0.69	111	0.108	3	1.40	0.085	0.19	10.9	0.04	4.2	0.1	0.38	5	0.7	<0.2	<0.9
812378	Drill Core	6	117	3.42	48	0.113	<1	1.97	0.176	0.96	0.3	0.05	19.9	0.5	5.56	9	4.7	1.8	
812379	Drill Core	8	65	2.62	53	0.070	1	1.82	0.092	0.81	0.2	0.06	11.5	0.5	3.77	8	3.7	1.1	
812380	Drill Core	8	76	1.77	60	0.067	1	1.32	0.098	0.47	0.4	0.12	12.0	0.3	4.70	7	2.1	1.3	
812381	Drill Core	8	86	2.65	59	0.087	<1	1.84	0.162	0.69	0.7	0.04	16.3	0.3	4.69	10	3.5	1.7	
812382	Drill Core	8	79	2.54	39	0.081	<1	1.59	0.133	0.57	0.5	0.01	15.3	0.3	5.69	9	2.8	1.3	
812383	Drill Core	6	84	2.56	48	0.168	1	1.70	0.165	0.83	0.8	0.02	14.3	0.5	6.15	9	2.2	1.1	
812384	Drill Core	4	67	2.06	55	0.175	4	2.00	0.137	0.65	0.3	<0.01	6.8	0.4	1.25	9	<0.5	0.4	
812385	Drill Core	4	58	1.87	39	0.181	5	2.11	0.148	0.32	0.4	<0.01	5.8	0.1	0.97	8	<0.5	0.5	
812386	Drill Core	3	63	2.12	41	0.192	4	2.10	0.140	0.41	0.6	0.02	7.3	0.2	2.09	9	0.7	0.5	
812387	Drill Core	3	61	2.27	41	0.196	4	2.14	0.139	0.41	0.5	0.01	8.0	0.2	2.85	9	<0.5	0.7	
812388	Drill Core	4	60	2.22	43	0.207	4	2.08	0.152	0.51	0.6	0.03	8.2	0.2	3.19	10	0.9	0.8	
812389	Drill Core	5	44	1.43	38	0.119	2	1.14	0.098	0.54	0.4	0.05	6.3	0.2	4.86	6	2.4	1.0	
812390	Drill Core	3	8	0.04	30	0.003	2	0.41	0.033	0.29	0.2	0.07	2.7	<0.1	7.11	1	2.9	0.9	
812391	Drill Core	2	19	0.56	29	0.006	2	0.70	0.040	0.38	<0.1	0.06	4.6	0.1	7.57	3	2.5	0.8	
812392	Rock Pulp	1	16	0.03	925	0.008	1	0.16	0.007	0.07	27.3	2.88	0.6	12.9	0.13	<1	1.7	<0.2	<0.9

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Project: CAPTAIN
Report Date: February 10, 2012

CERTIFICATE OF ANALYSIS SMI12000005.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
812393	Drill Core	5.12	1.5	48.6	8.5	10	0.1	17.1	21.2	151	4.31	9.0	10.1	0.5	542	<0.1	0.9	0.1	63	5.24	0.127
812394	Drill Core	4.91	5.1	40.0	10.9	57	<0.1	23.7	22.1	492	4.23	7.2	11.4	0.6	577	0.2	0.5	0.2	118	5.00	0.163
812395	Drill Core	4.68	5.1	190.6	11.0	68	0.4	14.8	21.9	895	4.52	5.5	25.4	1.0	352	<0.1	0.5	0.3	190	3.51	0.183
812396	Drill Core	4.49	29.4	65.0	12.8	82	0.2	14.7	21.3	1356	4.55	4.0	14.4	0.8	674	0.4	0.3	1.0	142	4.94	0.167
812397	Drill Core	3.55	13.4	110.6	4.5	66	0.2	15.5	22.6	896	4.66	7.0	12.9	0.8	648	<0.1	0.3	0.3	168	4.07	0.196
812398	Drill Core	3.32	12.5	117.8	3.1	38	0.2	15.5	23.2	870	4.64	9.1	14.0	1.2	446	<0.1	0.5	0.2	161	3.70	0.194
812399	Drill Core	3.63	2.5	160.2	4.0	45	0.1	15.7	23.4	1082	4.52	7.3	17.1	1.2	99	<0.1	0.5	0.2	144	3.90	0.194
812400	Drill Core	3.39	3.0	126.9	5.7	43	0.2	19.5	27.8	762	6.25	8.0	21.3	1.4	155	<0.1	0.5	0.3	169	3.14	0.194
812401	Drill Core	4.66	3.0	85.6	3.5	17	0.2	27.2	31.2	448	5.80	9.4	20.5	1.2	90	<0.1	0.3	0.5	219	2.51	0.186
812402	Drill Core	5.04	4.1	208.1	1.7	11	0.1	28.3	24.3	314	4.65	8.3	9.8	1.4	57	<0.1	0.2	0.2	228	1.97	0.202
812403	Drill Core	4.67	1.1	147.1	4.2	14	0.2	23.9	25.2	482	4.89	10.1	28.6	1.2	313	<0.1	0.8	0.3	183	2.12	0.180
812404	Drill Core	4.58	2.8	79.0	2.5	12	0.1	28.5	31.1	250	4.73	6.4	21.1	1.3	110	<0.1	0.4	0.4	250	1.61	0.191
812405	Drill Core	4.77	2.1	41.4	1.5	12	<0.1	30.7	27.9	267	4.82	4.4	11.8	1.2	177	<0.1	0.2	0.2	224	2.59	0.183
812406	Drill Core	5.78	2.7	108.7	3.4	15	0.1	28.1	40.3	286	5.51	7.1	11.4	1.2	172	<0.1	0.3	0.3	181	3.58	0.163
812407	Rock Pulp	0.15	2.7	26.4	2.6	43	0.4	23.1	10.0	419	2.45	4.5	0.8	1.1	47	0.2	0.4	<0.1	64	0.93	0.059
812408	Drill Core	5.02	1.5	73.9	3.2	23	<0.1	29.1	29.5	329	4.53	6.0	11.3	1.3	126	<0.1	0.3	0.3	203	2.35	0.184
812409	Drill Core	4.90	1.4	53.9	7.1	27	0.1	28.4	30.2	511	4.49	5.7	7.2	1.3	98	<0.1	0.3	0.2	214	2.57	0.177
812410	Drill Core	5.04	2.4	74.8	59.6	82	0.1	27.6	24.0	761	4.18	7.4	4.9	1.1	129	0.9	0.3	0.1	205	3.04	0.169
812411	Drill Core	4.89	2.3	36.1	6.4	24	<0.1	28.1	30.8	568	3.85	7.5	7.2	1.3	165	<0.1	0.3	<0.1	191	3.43	0.173
812412	Drill Core	4.86	1.5	106.3	2.9	13	0.2	32.6	30.8	518	5.27	12.1	26.7	1.2	116	<0.1	0.9	0.2	178	2.62	0.190
812413	Drill Core	5.14	1.0	101.3	2.3	12	0.1	31.3	30.4	441	5.04	9.8	12.3	1.3	137	<0.1	0.4	0.2	182	2.66	0.186
812414	Drill Core	4.61	3.1	56.3	3.2	12	<0.1	28.7	26.5	311	4.97	6.8	2.3	1.2	100	<0.1	0.3	0.1	219	1.78	0.182
812415	Drill Core	5.36	1.7	22.2	2.1	12	<0.1	27.9	33.0	300	5.51	7.5	5.4	1.3	146	<0.1	0.2	0.1	209	2.52	0.174
812416	Drill Core	4.77	1.9	123.5	2.4	14	0.1	28.4	36.5	367	5.31	9.2	7.3	1.2	102	<0.1	0.3	0.2	211	1.96	0.169
812417	Drill Core	5.18	4.1	48.4	1.7	13	<0.1	27.4	32.6	345	4.67	7.5	6.4	1.1	108	<0.1	0.3	0.1	188	2.67	0.162
812418	Drill Core	5.39	1.5	79.1	1.7	15	<0.1	29.4	28.7	371	4.85	8.8	8.8	1.1	85	<0.1	0.3	0.1	209	1.92	0.183
812419	Drill Core	5.07	2.6	96.4	6.4	44	0.1	57.6	24.9	761	4.40	7.5	5.6	1.1	255	0.2	0.3	<0.1	171	3.96	0.190
812420	Drill Core	5.91	0.4	72.4	9.1	68	<0.1	88.4	28.1	1031	4.50	5.0	6.8	1.4	309	0.2	0.2	<0.1	177	4.26	0.215
812421	Drill Core	2.38	2.5	89.4	5.7	22	0.1	26.7	27.4	841	4.88	7.0	1.8	1.2	120	<0.1	0.3	<0.1	199	3.64	0.168
812422	Drill Core	1.80	2.6	48.8	6.1	22	0.1	29.6	28.8	779	4.80	7.6	4.2	1.1	120	<0.1	0.3	<0.1	204	3.33	0.159

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: February 10, 2012

CERTIFICATE OF ANALYSIS SMI12000005.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	G6Gr
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
812393	Drill Core	3	20	0.31	23	0.007	2	0.40	0.032	0.28	<0.1	0.07	4.2	0.2	8.78	2	3.8	0.9	
812394	Drill Core	4	41	1.08	27	0.016	1	0.74	0.067	0.37	0.1	0.04	12.0	0.2	7.23	4	2.5	0.5	
812395	Drill Core	5	40	2.00	62	0.094	1	1.92	0.093	1.23	0.1	0.04	12.8	0.4	3.19	10	1.4	0.7	
812396	Drill Core	5	33	1.47	52	0.047	<1	1.32	0.062	0.80	0.2	0.03	11.6	0.3	4.18	7	1.8	0.5	
812397	Drill Core	5	38	2.20	41	0.106	2	1.82	0.062	1.31	<0.1	0.03	12.3	0.4	3.99	10	2.3	0.4	
812398	Drill Core	9	41	2.35	78	0.079	2	2.02	0.078	0.47	0.3	0.22	10.2	0.2	2.59	10	1.0	0.3	
812399	Drill Core	9	41	2.32	37	0.128	2	1.86	0.072	0.30	0.3	0.21	9.8	<0.1	2.28	9	0.5	0.4	
812400	Drill Core	12	57	2.26	58	0.030	<1	1.95	0.098	0.36	0.3	0.41	10.5	0.1	5.01	10	2.1	0.7	
812401	Drill Core	7	92	3.01	63	0.176	<1	2.08	0.179	0.74	0.6	0.36	20.1	0.2	4.63	10	<0.5	1.3	
812402	Drill Core	7	101	3.89	173	0.172	1	2.95	0.228	1.22	0.9	0.05	19.1	0.4	1.90	12	0.7	0.5	
812403	Drill Core	5	83	2.72	85	0.201	2	2.13	0.161	0.98	1.0	0.06	10.6	0.4	2.72	9	<0.5	0.8	
812404	Drill Core	5	101	3.65	68	0.173	2	2.37	0.177	0.73	0.8	0.14	19.6	0.2	3.84	11	1.4	0.8	
812405	Drill Core	5	109	3.34	48	0.145	1	2.11	0.157	0.38	0.8	0.08	19.1	0.1	5.06	10	1.3	0.5	
812406	Drill Core	7	98	2.39	52	0.185	1	1.62	0.143	0.67	0.4	0.06	15.0	0.3	7.07	7	2.5	0.6	
812407	Rock Pulp	4	33	0.80	97	0.143	4	1.64	0.090	0.13	12.2	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2	
812408	Drill Core	7	103	2.59	50	0.196	2	1.73	0.205	0.94	0.2	0.06	16.4	0.4	4.47	8	1.6	0.4	
812409	Drill Core	8	102	2.99	49	0.199	2	1.87	0.215	1.14	0.5	<0.01	17.3	0.4	5.35	8	2.4	0.6	
812410	Drill Core	7	97	3.19	54	0.180	2	1.98	0.187	1.23	0.3	0.03	16.7	0.5	4.72	7	1.7	0.3	
812411	Drill Core	8	98	3.07	64	0.184	1	1.80	0.228	1.01	0.4	0.05	14.3	0.4	4.65	7	2.5	0.4	
812412	Drill Core	6	107	2.62	91	0.213	<1	2.02	0.192	0.85	2.1	0.05	14.0	0.3	3.12	9	0.7	0.5	
812413	Drill Core	7	108	2.88	87	0.213	1	1.96	0.183	1.17	1.5	0.04	14.1	0.4	3.97	8	1.8	0.6	
812414	Drill Core	7	103	3.24	66	0.206	<1	1.80	0.223	1.11	0.3	0.05	18.9	0.4	5.59	8	1.7	0.5	
812415	Drill Core	7	103	3.08	46	0.188	1	1.73	0.217	0.87	0.4	0.08	18.4	0.3	6.44	7	2.2	0.9	
812416	Drill Core	7	102	3.68	39	0.176	1	2.13	0.257	1.03	0.4	0.06	17.5	0.5	5.25	9	3.0	0.5	
812417	Drill Core	8	95	3.39	54	0.187	1	1.82	0.202	0.90	0.5	0.09	13.8	0.4	5.30	7	1.2	0.5	
812418	Drill Core	6	105	4.00	65	0.182	2	2.36	0.190	0.82	0.5	0.04	15.5	0.3	4.46	10	1.1	0.5	
812419	Drill Core	8	156	2.73	84	0.215	1	2.07	0.151	1.18	0.8	0.01	12.2	0.3	2.42	8	1.0	0.2	
812420	Drill Core	8	217	3.12	261	0.243	3	2.61	0.104	1.84	0.3	<0.01	14.3	0.3	0.35	9	<0.5	<0.2	
812421	Drill Core	9	104	3.37	61	0.210	2	2.04	0.169	1.21	0.2	0.04	16.0	0.5	4.26	9	5.7	0.4	
812422	Drill Core	8	105	3.54	55	0.202	1	2.10	0.166	1.32	0.3	0.05	15.5	0.5	4.26	9	5.2	0.3	

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: February 10, 2012

CERTIFICATE OF ANALYSIS SMI12000005.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
812423	Drill Core	5.04	1.6	155.4	3.6	14	0.2	30.2	30.5	600	6.15	3.0	3.0	1.2	123	<0.1	0.2	<0.1	223	2.54	0.175
812424	Drill Core	5.72	6.0	90.6	4.9	22	0.2	33.2	37.2	705	6.28	7.2	5.3	1.1	149	<0.1	0.3	<0.1	221	3.10	0.173
812425	Drill Core	4.75	2.7	143.5	2.2	20	0.2	31.9	36.0	872	4.66	14.0	24.9	1.4	175	<0.1	0.5	<0.1	168	3.89	0.155
812426	Drill Core	4.22	3.4	152.2	3.2	21	0.2	35.5	35.9	809	4.61	16.4	36.9	1.1	169	<0.1	0.6	<0.1	162	3.58	0.161
812427	Drill Core	5.11	5.1	84.8	4.5	27	0.2	30.3	31.4	971	5.81	5.8	9.1	1.2	137	<0.1	0.5	0.2	200	3.68	0.184
812428	Drill Core	5.33	1.0	106.2	4.4	30	0.2	27.7	25.3	1300	5.17	4.8	15.7	1.1	244	<0.1	0.5	<0.1	208	3.53	0.167
812429	Drill Core	5.14	0.8	255.6	5.1	33	0.3	29.5	30.7	846	5.76	8.1	20.9	1.1	325	<0.1	0.4	<0.1	228	3.03	0.179
812430	Drill Core	5.20	0.8	148.1	6.1	37	0.2	30.9	31.8	797	5.83	25.7	27.1	1.2	97	<0.1	0.5	<0.1	248	1.83	0.188
812431	Drill Core	4.47	0.7	158.8	2.3	41	0.2	27.9	27.7	1012	5.21	13.8	21.1	1.4	168	<0.1	0.5	<0.1	210	3.02	0.179
812432	Drill Core	5.56	1.0	150.1	3.3	49	0.2	29.9	29.4	733	5.13	9.4	14.0	1.1	291	<0.1	0.4	<0.1	203	4.02	0.171
812433	Drill Core	4.90	1.5	153.3	4.2	30	0.2	27.3	30.2	626	5.09	8.9	14.4	1.2	309	<0.1	0.4	<0.1	192	4.49	0.165
812434	Drill Core	5.17	1.4	56.2	4.7	45	0.1	10.5	22.3	613	4.33	11.4	15.3	1.0	70	<0.1	0.5	<0.1	132	2.54	0.154
812435	Drill Core	5.87	5.1	29.9	19.7	291	0.2	47.2	24.8	875	4.86	15.5	21.6	0.8	131	2.8	0.7	<0.1	131	4.32	0.170

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750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: February 10, 2012

CERTIFICATE OF ANALYSIS SMI12000005.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	G6Gr
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
812423	Drill Core	8	115	3.36	60	0.236	<1	2.43	0.216	1.85	0.3	0.02	19.9	0.8	4.55	10	7.5	0.6	
812424	Drill Core	7	128	3.70	41	0.224	1	2.69	0.140	2.20	0.5	0.02	19.9	1.0	5.00	10	4.0	0.6	
812425	Drill Core	8	137	2.83	95	0.244	1	2.27	0.150	1.11	1.1	0.06	14.6	0.4	2.25	9	<0.5	0.6	
812426	Drill Core	7	136	2.81	90	0.241	1	2.07	0.154	0.82	0.8	0.14	14.6	0.3	2.84	9	<0.5	1.1	
812427	Drill Core	8	104	2.75	37	0.153	1	2.20	0.108	1.46	1.2	0.29	16.4	0.5	5.11	9	3.4	1.0	
812428	Drill Core	7	105	3.21	88	0.211	2	2.49	0.171	1.79	0.7	0.14	17.2	0.6	3.76	10	2.1	0.9	
812429	Drill Core	6	111	3.98	75	0.243	<1	2.79	0.213	2.25	0.7	0.01	21.1	0.7	5.82	11	3.7	1.3	
812430	Drill Core	6	113	4.24	68	0.252	2	2.89	0.176	2.20	0.6	0.03	20.0	0.7	3.55	11	1.9	1.8	
812431	Drill Core	7	106	3.36	80	0.233	2	2.50	0.176	1.55	0.5	0.02	15.2	0.5	2.52	10	1.4	1.3	
812432	Drill Core	5	108	3.84	57	0.207	1	2.33	0.194	1.44	0.5	0.05	15.9	0.5	6.36	10	2.6	0.8	
812433	Drill Core	7	99	2.98	39	0.180	3	1.90	0.147	0.85	0.3	0.38	15.3	0.3	6.82	9	3.4	1.0	
812434	Drill Core	10	23	1.93	76	0.044	2	2.06	0.107	0.95	0.1	0.34	7.4	0.3	3.98	9	2.3	0.8	
812435	Drill Core	8	141	2.33	105	0.127	2	2.21	0.099	0.95	0.3	0.22	11.2	0.2	3.13	8	3.0	0.4	

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: February 10, 2012

QUALITY CONTROL REPORT SMI12000005.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
32755	Drill Core	3.85	0.7	27.3	6.4	46	0.1	18.5	16.5	1037	2.63	16.6	38.2	0.9	2335	<0.1	0.3	<0.1	57	4.81	0.136
REP 32755	QC		0.6	26.8	6.7	44	0.1	19.2	16.6	1047	2.60	16.7	40.7	0.9	2245	0.1	0.3	<0.1	57	4.81	0.134
32772	Drill Core	3.38	4.8	167.7	7.3	46	0.4	36.0	30.6	1386	4.85	11.9	33.1	0.7	470	<0.1	1.5	<0.1	184	5.36	0.152
REP 32772	QC		4.5	165.9	7.8	47	0.4	36.9	30.0	1340	4.77	11.8	31.8	0.7	457	<0.1	1.4	<0.1	178	5.21	0.152
32792	Drill Core	5.26	1.3	116.7	4.6	37	0.2	53.8	31.8	919	5.20	6.2	17.6	0.9	168	<0.1	0.5	<0.1	170	2.79	0.170
REP 32792	QC		1.2	117.5	4.6	37	0.2	52.2	30.6	889	5.12	5.7	14.7	0.9	173	<0.1	0.6	<0.1	165	2.75	0.170
812356	Drill Core	4.98	0.6	90.5	3.4	26	0.1	39.7	29.7	754	4.29	4.5	17.5	0.9	661	<0.1	0.4	0.2	145	2.95	0.169
REP 812356	QC		0.7	89.1	3.5	26	0.1	38.9	29.2	717	4.20	4.5	14.1	0.9	638	<0.1	0.4	0.2	140	2.85	0.165
812391	Drill Core	4.67	1.2	48.1	5.7	4	<0.1	15.1	20.1	112	3.95	9.8	5.3	0.6	564	<0.1	0.8	0.1	69	4.19	0.152
REP 812391	QC		1.5	45.0	4.2	4	<0.1	15.3	19.1	108	3.80	9.2	4.2	0.5	539	<0.1	0.6	0.1	64	4.03	0.147
812397	Drill Core	3.55	13.4	110.6	4.5	66	0.2	15.5	22.6	896	4.66	7.0	12.9	0.8	648	<0.1	0.3	0.3	168	4.07	0.196
REP 812397	QC		13.5	111.4	4.6	67	0.2	15.9	23.1	899	4.71	7.0	12.8	0.8	639	0.1	0.2	0.4	171	4.09	0.188
REP 812398	QC		13.0	122.4	3.2	40	0.2	15.6	23.4	886	4.69	9.3	11.0	1.2	482	<0.1	0.5	0.2	163	3.75	0.189
812410	Drill Core	5.04	2.4	74.8	59.6	82	0.1	27.6	24.0	761	4.18	7.4	4.9	1.1	129	0.9	0.3	0.1	205	3.04	0.169
REP 812410	QC		2.7	74.9	59.5	84	0.1	27.6	24.0	743	4.18	7.9	2.2	1.2	130	0.9	0.3	0.1	203	3.04	0.165
812424	Drill Core	5.72	6.0	90.6	4.9	22	0.2	33.2	37.2	705	6.28	7.2	5.3	1.1	149	<0.1	0.3	<0.1	221	3.10	0.173
REP 812424	QC		6.0	86.2	4.7	21	0.2	31.3	36.0	664	6.08	7.2	3.8	1.1	142	<0.1	0.3	<0.1	215	3.01	0.166
Core Reject Duplicates																					
32778	Drill Core	4.99	8.9	129.6	9.3	13	0.2	49.9	38.2	273	10.02	15.2	17.0	0.8	95	<0.1	1.7	0.1	97	1.78	0.138
DUP 32778	QC		9.4	131.8	9.9	14	0.2	54.2	39.0	298	10.46	16.0	16.3	0.8	99	0.1	1.8	0.1	98	1.85	0.149
812363	Drill Core	5.21	16.5	30.4	12.5	41	0.2	34.5	29.1	987	4.82	5.2	30.1	0.8	381	<0.1	0.6	0.7	156	4.10	0.170
DUP 812363	QC		15.9	29.7	12.2	39	0.2	33.8	29.3	975	4.73	4.8	26.3	0.8	363	<0.1	0.5	0.6	153	3.96	0.164
812398	Drill Core	3.32	12.5	117.8	3.1	38	0.2	15.5	23.2	870	4.64	9.1	14.0	1.2	446	<0.1	0.5	0.2	161	3.70	0.194
DUP 812398	QC		13.9	125.7	3.3	41	0.2	15.4	24.1	887	4.77	9.3	13.1	1.2	455	<0.1	0.5	0.2	164	3.73	0.201
812433	Drill Core	4.90	1.5	153.3	4.2	30	0.2	27.3	30.2	626	5.09	8.9	14.4	1.2	309	<0.1	0.4	<0.1	192	4.49	0.165
DUP 812433	QC		1.3	146.1	3.6	29	0.2	27.9	28.4	606	4.86	8.9	11.6	1.2	288	<0.1	0.4	<0.1	184	4.28	0.163
Reference Materials																					
STD AGPROOF	Standard																				

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AcmeLabs Acme Analytical Laboratories (Vancouver) Ltd.
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www.acmelab.com

Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: February 10, 2012

QUALITY CONTROL REPORT SMI12000005.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	G6Gr
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
Pulp Duplicates																			
32755	Drill Core	7	20	1.24	462	0.002	2	1.14	0.057	0.36	0.2	0.25	10.2	<0.1	0.39	3	<0.5	0.4	
REP 32755	QC	7	20	1.23	459	0.002	2	1.10	0.057	0.36	0.2	0.27	9.9	<0.1	0.39	2	<0.5	0.3	
32772	Drill Core	4	106	2.96	35	0.073	<1	1.76	0.076	0.92	<0.1	0.28	17.3	0.5	5.67	7	1.8	0.9	
REP 32772	QC	5	102	2.89	36	0.071	<1	1.74	0.074	0.90	<0.1	0.25	17.0	0.5	5.47	7	1.6	1.1	
32792	Drill Core	6	109	2.98	52	0.208	2	2.12	0.235	1.22	0.2	0.06	9.3	0.5	3.69	8	0.9	0.6	
REP 32792	QC	5	108	2.92	60	0.205	2	2.07	0.228	1.19	0.2	0.05	8.8	0.5	3.62	8	1.1	0.6	
812356	Drill Core	5	106	2.90	50	0.224	2	1.93	0.144	0.95	0.3	0.02	5.6	0.5	3.50	8	2.4	1.4	
REP 812356	QC	4	103	2.80	55	0.211	2	1.84	0.141	0.92	0.3	0.01	5.3	0.5	3.42	8	2.0	1.4	
812391	Drill Core	2	19	0.56	29	0.006	2	0.70	0.040	0.38	<0.1	0.06	4.6	0.1	7.57	3	2.5	0.8	
REP 812391	QC	2	18	0.53	30	0.006	2	0.66	0.037	0.36	<0.1	0.06	4.2	0.1	7.23	3	2.8	1.0	
812397	Drill Core	5	38	2.20	41	0.106	2	1.82	0.062	1.31	<0.1	0.03	12.3	0.4	3.99	10	2.3	0.4	
REP 812397	QC	5	38	2.24	40	0.108	2	1.80	0.061	1.33	0.1	0.02	12.2	0.4	3.99	10	2.1	0.4	
REP 812398	QC	10	42	2.42	85	0.080	4	2.10	0.079	0.48	0.2	0.24	10.2	0.2	2.64	10	0.8	0.2	
812410	Drill Core	7	97	3.19	54	0.180	2	1.98	0.187	1.23	0.3	0.03	16.7	0.5	4.72	7	1.7	0.3	
REP 812410	QC	7	97	3.20	58	0.177	3	1.96	0.192	1.23	0.3	0.04	16.4	0.5	4.74	7	2.0	0.4	
812424	Drill Core	7	128	3.70	41	0.224	1	2.69	0.140	2.20	0.5	0.02	19.9	1.0	5.00	10	4.0	0.6	
REP 812424	QC	7	122	3.60	49	0.217	<1	2.58	0.137	2.13	0.4	0.02	19.7	0.9	4.85	10	3.6	0.4	
Core Reject Duplicates																			
32778	Drill Core	2	68	0.52	37	0.008	6	1.35	0.057	0.80	<0.1	0.83	12.9	0.6	>10	4	7.9	4.2	
DUP 32778	QC	2	72	0.53	44	0.008	6	1.38	0.059	0.81	<0.1	0.88	13.0	0.6	>10	4	7.8	3.9	
812363	Drill Core	6	89	2.55	56	0.191	2	1.52	0.141	0.73	0.4	0.03	10.1	0.4	4.91	7	4.0	1.8	
DUP 812363	QC	5	87	2.50	45	0.189	1	1.51	0.145	0.73	0.3	0.04	9.8	0.4	4.78	7	3.2	2.0	
812398	Drill Core	9	41	2.35	78	0.079	2	2.02	0.078	0.47	0.3	0.22	10.2	0.2	2.59	10	1.0	0.3	
DUP 812398	QC	9	42	2.40	77	0.076	2	2.09	0.079	0.49	0.2	0.23	10.3	0.2	2.67	10	1.0	0.4	
812433	Drill Core	7	99	2.98	39	0.180	3	1.90	0.147	0.85	0.3	0.38	15.3	0.3	6.82	9	3.4	1.0	
DUP 812433	QC	7	99	2.89	41	0.173	1	1.84	0.139	0.82	0.3	0.37	14.8	0.3	6.47	9	3.1	0.7	
Reference Materials																			
STD AGPROOF	Standard																		<0.9

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Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: February 10, 2012

QUALITY CONTROL REPORT SMI12000005.1

		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
STD DS8	Standard		15.4	117.0	127.3	304	1.9	41.4	8.0	614	2.43	25.6	105.0	7.2	74	2.5	5.9	7.1	42	0.77	0.075
STD DS8	Standard		12.1	103.5	121.0	293	1.8	35.9	7.2	590	2.38	23.8	117.6	6.5	62	2.3	5.4	6.4	42	0.67	0.077
STD DS8	Standard		13.0	124.1	126.1	327	1.8	41.2	8.4	638	2.58	26.4	100.9	5.8	64	2.4	5.4	6.1	46	0.71	0.081
STD DS8	Standard		13.9	112.9	131.7	322	1.8	38.5	7.8	651	2.59	25.9	107.4	7.9	75	2.3	5.9	6.6	46	0.81	0.080
STD DS8	Standard		12.5	112.2	126.7	312	1.8	37.8	7.4	614	2.50	25.4	124.9	6.8	67	2.2	5.9	6.9	41	0.72	0.085
STD SP49	Standard																				
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
STD SP49 Expected																					
STD AGPROOF Expected																					
BLK	Blank		<0.1	<0.1	0.4	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
G1-SMI	Prep Blank		0.2	3.5	3.9	44	<0.1	3.7	4.3	545	1.97	1.3	0.7	6.6	70	<0.1	<0.1	<0.1	36	0.55	0.076
G1-SMI	Prep Blank		0.2	3.3	3.7	46	<0.1	3.5	4.2	591	1.98	2.7	0.7	7.1	67	<0.1	<0.1	<0.1	38	0.55	0.082

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Client: **Orestone Mining Corp.**
750-625 Howe St.
Vancouver BC V4A 9T8 Canada

Project: CAPTAIN
Report Date: February 10, 2012

QUALITY CONTROL REPORT SMI12000005.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	G6Gr
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.9
STD DS8	Standard	15	127	0.63	292	0.121	2	1.00	0.102	0.43	2.9	0.20	2.8	5.0	0.16	5	5.1	4.6	
STD DS8	Standard	14	113	0.57	259	0.105	2	0.90	0.091	0.41	3.0	0.20	2.5	5.4	0.16	4	5.1	5.1	
STD DS8	Standard	14	126	0.63	270	0.119	2	0.93	0.088	0.43	2.9	0.19	2.6	5.2	0.17	5	6.8	5.5	
STD DS8	Standard	20	128	0.65	294	0.138	3	1.04	0.109	0.44	3.1	0.21	3.0	5.7	0.17	5	5.1	4.8	
STD DS8	Standard	15	118	0.62	279	0.121	2	0.94	0.090	0.42	3.3	0.20	2.5	5.3	0.16	5	6.2	5.0	
STD SP49	Standard																		18.1
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5	
STD SP49 Expected																			18.34
STD AGPROOF Expected																			0
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank																		<0.9
BLK	Blank																		<0.9
Prep Wash																			
G1-SMI	Prep Blank	14	10	0.52	200	0.134	1	1.05	0.114	0.53	<0.1	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2	
G1-SMI	Prep Blank	15	11	0.52	170	0.140	<1	1.06	0.113	0.52	<0.1	<0.01	2.8	0.3	<0.05	5	<0.5	<0.2	

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CDN Resource Laboratories Ltd.

#2, 20148 - 102nd Avenue, Langley, B.C., Canada, V1M 4B4, Ph: 604-882-8422 Fax: 604-882-8466
(www.cdnlabs.com)

STANDARD REFERENCE MATERIAL: CDN-BL-10

Recommended values:
Gold concentration: ***< 0.01 g/t***
Platinum concentration: ***< 0.01 g/t***
Palladium concentration: ***< 0.01 g/t***

PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph. D., P. Geo.
DATE OF CERTIFICATION: November 25, 2011

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-BL-10 was prepared using a blank granitic material.

METHOD OF PREPARATION:

The granitic material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 (<53 micron) material was mixed for 5 days in a double-cone blender. Splits were taken and sent to 12 commercial laboratories for round robin assaying. Round robin results are displayed on the next page.

APPROXIMATE CHEMICAL COMPOSITION (by whole rock analysis):

	Percent			Percent
SiO2	69.7		Na2O	3.1
Al2O3	12.3		MgO	2.3
Fe2O3	5.2		K2O	0.9
CaO	3.8		TiO2	0.6
MnO	0.1		LOI	1.9
			S	<0.1

Statistical Procedures: There was no statistical analysis performed on the data.

Participating Laboratories: (not in same order as table of assays)

Acme Analytical Laboratories Ltd., Vancouver
Actlabs, Ancaster, Ontario
Actlabs, Thunder Bay, Ontario
ALS Chemex Laboratories, North Vancouver
AGAT, Mississauga, Ontario
AHK, Alaska, USA
Alex Stewart, Mendosa, Argentina
TSL Laboratories, Saskatoon
Genalysis, Perth, Australia
Labtium, Finland
SGS, Lima, Peru
Ultra Trace, Perth, Australia

Assay Procedure: assays were fire assay, AA or ICP finish on 30g samples.

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12
Sample	Au ppm	Au ppm	Au ppm	Au ppm	Au ppm	Au ppm	Au ppm	Au ppm	Au ppm	Au ppm	Au ppm	Au ppm
CDN-BL-10-1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-4	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-8	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
CDN-BL-10-9	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
	Pt ppm	Pt ppm	Pt ppm	Pt ppm	Pt ppm	Pt ppm	Pt ppm	Pt ppm	Pt ppm	Pt ppm	Pt ppm	Pt ppm
CDN-BL-10-1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.01
CDN-BL-10-2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
CDN-BL-10-3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01
CDN-BL-10-4	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01
CDN-BL-10-5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01
CDN-BL-10-6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01
CDN-BL-10-7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01
CDN-BL-10-8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.01
CDN-BL-10-9	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
CDN-BL-10-10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
	Pd ppm	Pd ppm	Pd ppm	Pd ppm	Pd ppm	Pd ppm	Pd ppm	Pd ppm	Pd ppm	Pd ppm	Pd ppm	Pd ppm
CDN-BL-10-1	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-4	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-5	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-9	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01

<u>Legal Notice</u>:

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. nor Barry Smee accept any liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by

Duncan Sanderson, Certified Assayer of B.C.

Geochemist

Dr. Barry Smee, Ph.D., P. Geo.

CDN Resource Laboratories Ltd.

#2, 20148 – 102nd Ave, Langley, B.C., Canada, V1M 4B4, 604-882-8422, Fax: 604-882-8466 (www.cdnlabs.com)

REFERENCE MATERIAL: CDN-CM-20

Recommended values and the "Between Lab" Two Standard Deviations

Gold	***0.278 g/t***	***± 0.044 g/t***	******Provisional*****	***30g FA / ICP or AA***
Copper	***0.316 %***	***± 0.016 %***	***Certified value***	***4-acid / ICP or AA***
Copper	***0.314 %***	***± 0.014 %***	***Certified value***	***Aqua regia / ICP or AA***
Molybdenum	***0.030 %***	***± 0.002 %***	***Certified value***	***4-acid / ICP or AA***
Molybdenum	***0.030 %***	***± 0.004 %***	******Provisional*****	***Aqua regia / ICP or AA***

Note: Standards with an RSD of near or less than 5% are certified; RSD's of between 5% and 15% are Provisional; RSD's over 15% are Indicated. Provisional and Indicated values cannot be used to monitor accuracy with a high degree of certainty.

PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph.D., P. Geo.
DATE OF CERTIFICATION: November 25, 2011

METHOD OF PREPARATION:

Reject ore material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone mixer. Splits were taken and sent to 15 laboratories for round robin assaying.

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-CM-20 was prepared using 790 kg of a granitic rock blended with 10 kg of a Cu-Au-Mo concentrate.

Approximate chemical composition (from whole rock analysis) is as follows:

	Percent			Percent
SiO2	67.5		MgO	2.1
Al2O3	13.0		K2O	1.5
Fe2O3	5.8		TiO2	0.6
CaO	3.6		LOI	2.0
Na2O	3.2		S	0.4
C	0.1			

Statistical Procedures:

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The means and standard deviations were calculated using all remaining data. Any analysis that fell outside of the mean ±2 standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

REFERENCE MATERIAL CDN-CM-20

Results from round-robin assaying:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t
CM-20-1	0.303	0.258	0.248	0.260	0.32	0.28	0.268	0.299	0.304	0.274	0.246	0.310	0.301	0.262	0.28
CM-20-2	0.266	0.262	0.246	0.249	0.29	0.28	0.311	0.284	0.321	0.258	0.231	0.283	0.314	0.290	0.27
CM-20-3	0.278	0.263	0.247	0.247	0.30	0.26	0.262	0.285	0.298	0.290	0.256	0.320	0.301	0.276	0.29
CM-20-4	0.252	0.257	0.259	0.255	0.31	0.27	0.261	0.292	0.340	0.246	0.289	0.280	0.285	0.269	0.31
CM-20-5	0.275	0.252	0.27	0.250	0.31	0.28	0.282	0.299	0.279	0.288	0.273	0.300	0.345	0.289	0.27
CM-20-6	0.267	0.247	0.264	0.252	0.33	0.31	0.276	0.291	0.291	0.254	0.274	0.310	0.289	0.257	0.29
CM-20-7	0.278	0.258	0.268	0.253	0.30	0.26	0.309	0.295	0.345	0.266	0.297	0.306	0.293	0.246	0.32
CM-20-8	0.273	0.246	0.253	0.253	0.30	0.35	0.295	0.289	0.333	0.313	0.290	0.297	0.313	0.283	0.30
CM-20-9	0.285	0.252	0.256	0.243	0.32	0.25	0.251	0.296	0.326	0.224	0.296	0.280	0.266	0.253	0.29
CM-20-10	0.302	0.256	0.249	0.264	0.31	0.25	0.283	0.285	0.308	0.283	0.360	0.295	0.337	0.275	0.27
Mean	0.278	0.255	0.256	0.253	0.309	0.279	0.280	0.292	0.315	0.270	0.281	0.298	0.304	0.270	0.289
Std. Devn.	0.0157	0.0058	0.0089	0.0061	0.0127	0.0307	0.0203	0.0057	0.0219	0.0255	0.0355	0.0138	0.0238	0.0152	0.0173
% RSD	5.66	2.26	3.48	2.41	4.11	11.01	7.27	1.96	6.98	9.47	12.62	4.64	7.83	5.64	5.98
4-acid	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu
CM-20-1	0.314	0.327	0.318	0.310	0.308	0.304	0.321	0.32	0.33	0.32	0.320	0.297	0.32	0.324	0.323
CM-20-2	0.314	0.327	0.315	0.323	0.309	0.305	0.314	0.31	0.33	0.32	0.320	0.309	0.31	0.328	0.321
CM-20-3	0.308	0.326	0.316	0.311	0.314	0.308	0.304	0.32	0.32	0.31	0.310	0.308	0.31	0.337	0.320
CM-20-4	0.330	0.312	0.301	0.315	0.313	0.307	0.317	0.32	0.33	0.30	0.316	0.305	0.32	0.330	0.327
CM-20-5	0.316	0.310	0.310	0.313	0.312	0.309	0.324	0.32	0.32	0.31	0.316	0.306	0.31	0.335	0.330
CM-20-6	0.315	0.319	0.306	0.319	0.311	0.309	0.544	0.32	0.33	0.30	0.308	0.308	0.31	0.332	0.326
CM-20-7	0.307	0.321	0.321	0.321	0.310	0.289	0.314	0.32	0.33	0.30	0.310	0.307	0.32	0.316	0.323
CM-20-8	0.298	0.317	0.321	0.318	0.315	0.303	0.315	0.32	0.32	0.32	0.311	0.310	0.31	0.332	0.323
CM-20-9	0.315	0.330	0.310	0.321	0.310	0.304	0.315	0.31	0.33	0.31	0.328	0.306	0.31	0.332	0.325
CM-20-10	0.313	0.327	0.290	0.324	0.315	0.304	0.317	0.32	0.32	0.32	0.324	0.299	0.31	0.331	0.322
Mean	0.313	0.322	0.311	0.318	0.312	0.304	0.339	0.318	0.326	0.311	0.316	0.306	0.313	0.330	0.324
Std. Devn.	0.0081	0.0069	0.0098	0.0050	0.0024	0.0058	0.0724	0.0042	0.0052	0.0088	0.0068	0.0042	0.0048	0.0060	0.0030
% RSD	2.60	2.16	3.14	1.57	0.78	1.91	21.39	1.33	1.58	2.82	2.16	1.39	1.54	1.81	0.93
Aqua regia	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu
CM-20-1	0.311	0.321	0.308	0.309	0.31	0.328	0.324	0.31	0.32	0.31	0.310	0.308	0.32	0.327	0.314
CM-20-2	0.311	0.318	0.306	0.320	0.31	0.318	0.307	0.30	0.32	0.31	0.318	0.306	0.31	0.329	0.315
CM-20-3	0.310	0.314	0.309	0.312	0.31	0.324	0.313	0.31	0.32	0.30	0.312	0.309	0.31	0.331	0.314
CM-20-4	0.315	0.323	0.296	0.308	0.31	0.328	0.315	0.31	0.32	0.31	0.325	0.309	0.31	0.314	0.327
CM-20-5	0.312	0.311	0.309	0.318	0.31	0.322	0.315	0.31	0.32	0.31	0.306	0.310	0.31	0.315	0.316
CM-20-6	0.311	0.311	0.294	0.313	0.31	0.323	0.321	0.31	0.32	0.32	0.321	0.304	0.30	0.329	0.318
CM-20-7	0.315	0.315	0.307	0.309	0.32	0.324	0.321	0.31	0.32	0.31	0.316	0.308	0.32	0.33	0.319
CM-20-8	0.319	0.327	0.305	0.311	0.31	0.324	0.320	0.31	0.32	0.31	0.311	0.312	0.31	0.329	0.321
CM-20-9	0.317	0.313	0.302	0.311	0.31	0.320	0.319	0.30	0.33	0.31	0.315	0.305	0.32	0.329	0.320
CM-20-10	0.335	0.311	0.301	0.316	0.31	0.313	0.324	0.31	0.33	0.30	0.322	0.302	0.32	0.316	0.321
Mean	0.316	0.316	0.304	0.313	0.311	0.322	0.318	0.308	0.322	0.309	0.316	0.307	0.313	0.325	0.319
Std. Devn.	0.0074	0.0056	0.0053	0.0041	0.0030	0.0044	0.0054	0.0042	0.0042	0.0057	0.0059	0.0030	0.0067	0.0069	0.0040
% RSD	2.36	1.78	1.76	1.30	0.97	1.37	1.69	1.37	1.31	1.84	1.86	0.98	2.16	2.13	1.27

Note: Au data from Lab 9 was excluded for failing the t test.

REFERENCE MATERIAL CDN-CM-20

Results from round-robin assaying:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
4-acid	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo
CM-20-1	0.030	0.032	0.03	0.030	0.029	0.031	0.030	0.03	0.035	0.03	0.031	0.029	0.032	0.029	0.031
CM-20-2	0.030	0.032	0.03	0.031	0.029	0.032	0.029	0.03	0.035	0.03	0.031	0.029	0.031	0.030	0.0306
CM-20-3	0.030	0.032	0.03	0.030	0.029	0.031	0.029	0.03	0.033	0.03	0.031	0.029	0.031	0.030	0.0312
CM-20-4	0.033	0.031	0.03	0.030	0.029	0.031	0.030	0.03	0.034	0.03	0.031	0.029	0.032	0.030	0.03
CM-20-5	0.030	0.032	0.029	0.030	0.030	0.031	0.030	0.03	0.035	0.03	0.031	0.029	0.031	0.030	0.0289
CM-20-6	0.030	0.031	0.031	0.030	0.030	0.032	0.050	0.03	0.035	0.03	0.030	0.029	0.032	0.030	0.029
CM-20-7	0.030	0.030	0.031	0.031	0.030	0.029	0.030	0.03	0.034	0.03	0.032	0.029	0.032	0.029	0.0292
CM-20-8	0.030	0.032	0.031	0.031	0.029	0.031	0.030	0.03	0.035	0.03	0.032	0.029	0.031	0.030	0.0299
CM-20-9	0.030	0.031	0.031	0.029	0.029	0.031	0.029	0.03	0.035	0.03	0.033	0.030	0.031	0.030	0.0307
CM-20-10	0.029	0.033	0.028	0.030	0.029	0.031	0.030	0.03	0.034	0.03	0.031	0.029	0.031	0.029	0.0307
Mean	0.030	0.032	0.030	0.030	0.029	0.031	0.032	0.030	0.035	0.030	0.031	0.029	0.031	0.030	0.030
Std. Devn.	0.0010	0.0008	0.0010	0.0004	0.0004	0.0008	0.0064	0.0000	0.0007	0.0000	0.0009	0.0003	0.0005	0.0005	0.0008
% RSD	3.42	2.67	3.30	1.41	1.37	2.70	20.34	0.00	2.05	0.00	2.74	1.09	1.64	1.63	2.82
Aqua regia	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo
CM-20-1	0.029	0.031	0.031	0.025	0.027	0.035	0.030	0.02	0.032	0.03	0.032	0.030	0.029	0.027	0.030
CM-20-2	0.029	0.030	0.03	0.025	0.030	0.034	0.029	0.02	0.032	0.03	0.033	0.030	0.030	0.029	0.029
CM-20-3	0.029	0.030	0.031	0.026	0.029	0.034	0.030	0.02	0.032	0.03	0.031	0.030	0.028	0.029	0.029
CM-20-4	0.029	0.030	0.031	0.025	0.027	0.035	0.031	0.02	0.033	0.03	0.034	0.029	0.028	0.027	0.031
CM-20-5	0.029	0.030	0.03	0.026	0.027	0.035	0.030	0.02	0.033	0.03	0.031	0.030	0.029	0.029	0.030
CM-20-6	0.029	0.029	0.031	0.026	0.028	0.035	0.029	0.02	0.033	0.03	0.033	0.030	0.027	0.030	0.030
CM-20-7	0.030	0.029	0.031	0.025	0.027	0.035	0.029	0.02	0.034	0.03	0.033	0.030	0.028	0.027	0.029
CM-20-8	0.030	0.030	0.03	0.025	0.028	0.034	0.029	0.02	0.033	0.03	0.032	0.030	0.028	0.027	0.029
CM-20-9	0.030	0.030	0.029	0.025	0.029	0.035	0.029	0.02	0.031	0.03	0.033	0.029	0.028	0.029	0.030
CM-20-10	0.030	0.030	0.03	0.026	0.028	0.033	0.030	0.02	0.032	0.03	0.034	0.030	0.028	0.028	0.030
Mean	0.029	0.030	0.030	0.025	0.028	0.034	0.030	0.020	0.033	0.030	0.033	0.030	0.028	0.028	0.030
Std. Devn.	0.0005	0.0006	0.0007	0.0005	0.0009	0.0006	0.0007	0.0000	0.0008	0.0000	0.0010	0.0004	0.0008	0.0011	0.0004
% RSD	1.76	1.90	2.30	1.84	3.14	1.87	2.36	0.00	2.61	0.00	3.16	1.41	2.91	4.03	1.32

Note: Aqua regia Mo data from Lab 8 was excluded for failing the t test.

REFERENCE MATERIAL CDN-CM-20

Participating Laboratories:
(not in same order as listed in table of results)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada
Actlabs, Ancaster, Ontario, Canada
Actlabs, Thunder Bay, Ontario, Canada
ALS Chemex Laboratories, North Vancouver, B.C., Canada
AGAT, Mississauga, Ontario
AHK, Alaska, USA
Alex Stewart Argentina SA
Stewart Group, Kamloops, B.C., Canada
CIMM, Lima, Peru
Inspectorate, Richmond, B.C., Canada
Genalysis, Perth, Australia
SGS, Lima, Peru
Skyline Assayers & Laboratories, Arizona, USA
TSL Laboratories, Saskatoon, Canada
Ultra Trace, Perth, Australia

Legal Notice:

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. or Barry Smee accept no liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by

Duncan Sanderson, Certified Assayer of B.C.

Geochemist

Dr. Barry Smee, Ph.D., P. Geo.

CDN Resource Laboratories Ltd.

#2, 20148 – 102nd Avenue, Langley, B.C., Canada, V1M 4B4, 604-882-8422, Fax: 604-882-8466 (www.cdnlabs.com)

REFERENCE MATERIAL: CDN-GS-P2A

Recommended value and the "Between Laboratory" two standard deviations

Gold concentration: 0.229 ± 0.030 g/t (30g Fire Assay / instrumental finish)

PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph.D., P. Geo.
DATE OF CERTIFICATION: August 16, 2011

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-GS-P2A was prepared using ore supplied by Barrick Gold Inc. from their Bald Mountain Mine in Nevada, USA. It is Carlin Style Mineralization in the prolific Battle Mountain-Eureka Trend in Northern Nevada, USA. The material is from breccias near the contact between the Mississippian Pilot Shale and the underlying Devonian Guilmette formation. Near the center of the system, micron-sized native Au occurs with base metal sulfides and sulfosalts. In peripheral deposits and in later stages of mineralization, Au is typically submicron in size and resides in pyrite or arsenopyrite.

METHOD OF PREPARATION:

Reject ore material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone blender. Splits were taken and sent to 15 commercial laboratories for round robin assaying. Round robin results are displayed below:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
SAMPLE	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t
GS-P2A-1	0.241	0.268	0.242	0.245	0.228	0.228	0.216	0.207	0.238	0.238	0.230	0.271	0.23	0.220	0.234
GS-P2A-2	0.262	0.247	0.232	0.235	0.226	0.231	0.218	0.217	0.230	0.230	0.232	0.232	0.24	0.217	0.215
GS-P2A-3	0.252	0.256	0.244	0.250	0.215	0.211	0.204	0.204	0.223	0.250	0.225	0.253	0.21	0.211	0.212
GS-P2A-4	0.262	0.252	0.241	0.245	0.225	0.222	0.217	0.206	0.226	0.227	0.229	0.247	0.26	0.235	0.214
GS-P2A-5	0.252	0.266	0.229	0.245	0.232	0.235	0.206	0.211	0.236	0.221	0.225	0.261	0.25	0.234	0.231
GS-P2A-6	0.254	0.269	0.248	0.235	0.21	0.220	0.217	0.215	0.217	0.233	0.209	0.230	0.22	0.238	0.211
GS-P2A-7	0.266	0.264	0.247	0.230	0.215	0.223	0.222	0.202	0.230	0.217	0.239	0.252	0.20	0.230	0.220
GS-P2A-8	0.253	0.269	0.226	0.225	0.228	0.212	0.207	0.204	0.218	0.220	0.241	0.246	0.26	0.235	0.202
GS-P2A-9	0.264	0.266	0.248	0.260	0.227	0.192	0.232	0.201	0.232	0.227	0.223	0.244	0.23	0.232	0.235
GS-P2A-10	0.270	0.260	0.244	0.220	0.237	0.233	0.204	0.206	0.213	0.225	0.220	0.236	0.22	0.239	0.229
Mean	0.258	0.262	0.240	0.239	0.224	0.221	0.214	0.207	0.226	0.229	0.227	0.247	0.232	0.229	0.220
Std. Dev'n	0.0087	0.0077	0.0084	0.0122	0.0084	0.0130	0.0091	0.0054	0.0084	0.0097	0.0093	0.0128	0.0204	0.0096	0.0113
%RSD	3.37	2.94	3.50	5.11	3.75	5.88	4.23	2.59	3.71	4.25	4.08	5.18	8.81	4.21	5.14

Note: Results from Laboratory 2 were removed for failing the t test.

APPROXIMATE CHEMICAL COMPOSITION:

	Percent			Percent			ppm
SiO2	87.7		Na2O	< 0.1		As	540
Al2O3	1.0		MgO	0.1		Sb	60
Fe2O3	4.5		K2O	0.2			
CaO	1.4		TiO2	0.5			
MnO	< 0.1		LOI	2.1			
Total S	0.6		Total C	0.3			

REFERENCE MATERIAL: CDN-GS-P2A

Statistical Procedures:

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The mean and standard deviation were calculated using all remaining data. Any analysis that fell outside of the mean ±2 standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

Participating Laboratories: (not in same order as table of assays)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada
Activation Laboratories, Ancaster, Ontario, Canada
Activation Laboratories, Thunder Bay, Ontario, Canada
AGAT Laboratories Ltd., Mississauga, Ontario, Canada
ALS Chemex, North Vancouver, B.C., Canada
American Assay Laboratories, Nevada, USA
Alex Stewart Argentina SA
Alex Stewart, Kamloops, B.C., Canada
Genalysis Lab Services, Australia
Inspectorate, Richmond, B.C., Canada
OMAC Laboratories Ltd., Ireland
SGS, Lima, Peru
Skyline, Tucson, USA
TSL Laboratories Ltd., Saskatoon, SK, Canada
Ultra Trace Laboratories Ltd., Australia

Legal Notice:

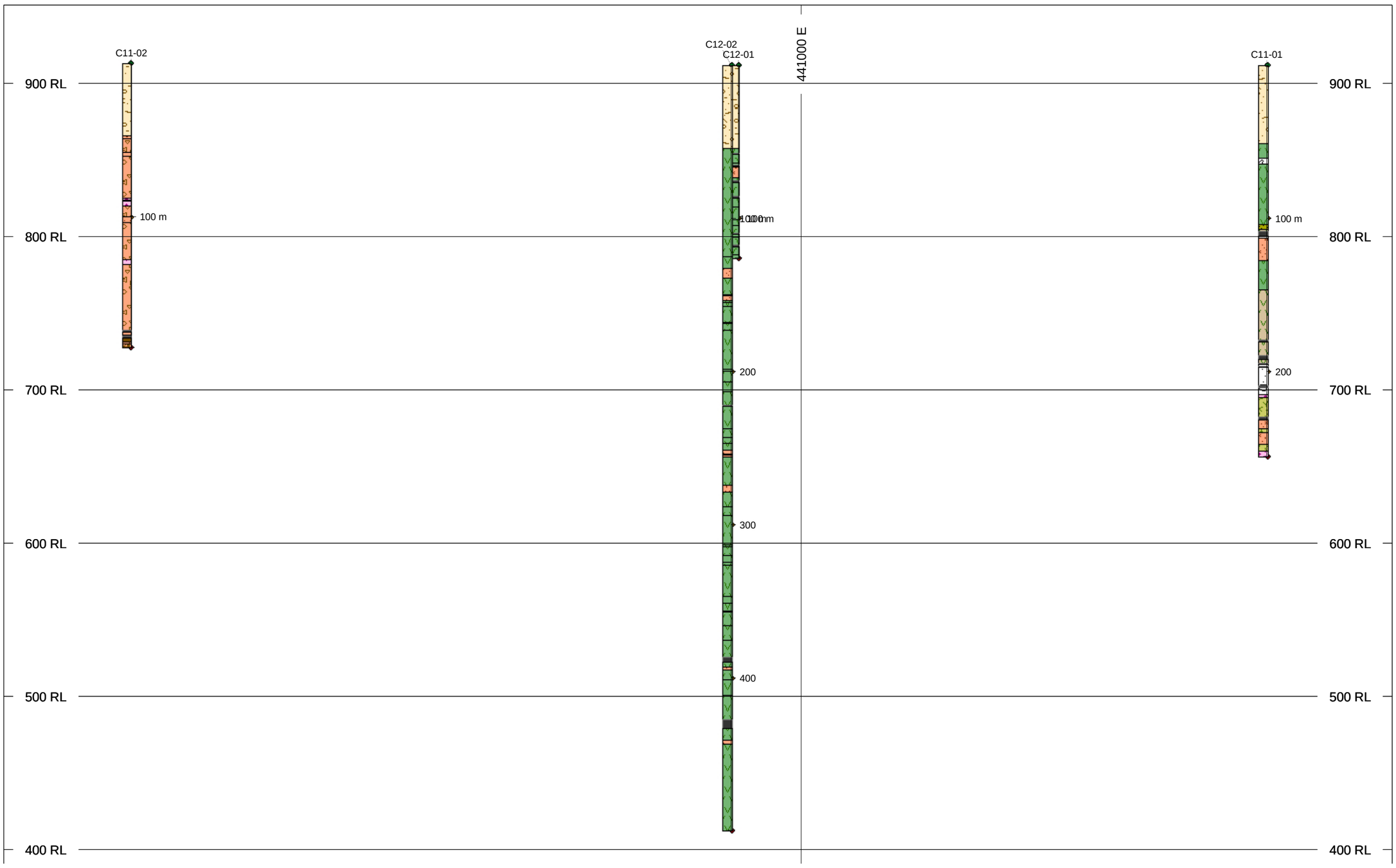
This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. nor Barry Smee accept any liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

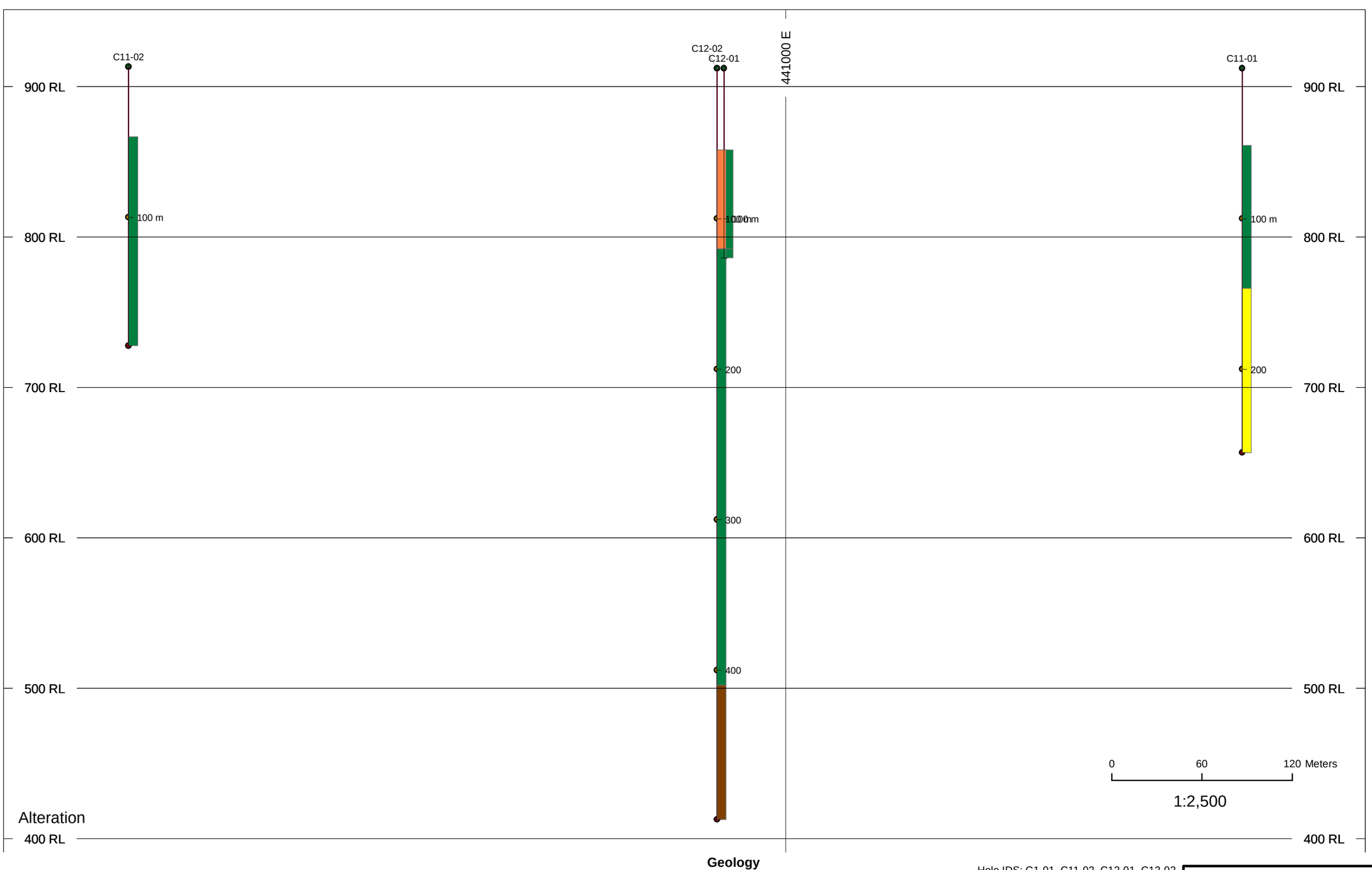
Certified by Duncan Sanderson

Duncan Sanderson, Certified Assayer of B.C.

Geochemist BW Smee

Dr. Barry Smee, Ph.D., P. Geo.





Alteration

- PROP Propylitic Alteration
- POTS Potassic Alteration
- PHYP Phyllic-Propylitic Alteration
- PHYA Phyllic Alteration
- PTRSCRB Potassic-Sericite-Carbonate Alteration

Geology

- OVBD Overburden
- ANDS Andesitic Rocks Undifferentiated
- ANDS? Andestitic Rocks?
- ANPD Andesite Feldspar Prophyry
- BREC Breccia
- DRPD Plagioclase Diorite Porphyry
- FAUL Fault
- MONZ Monzonite
- MONZ? Monzonite?
- MZPD Plagioclase Monzonite Porphyry
- PTUN Protolith

Hole IDS: C1-01, C11-02, C12-01, C12-02
Azimuths:000
Dip: -90
Section Azimuth: 072

ORESTONE MINING CORP.

Project Name: Captain Property	Cross Section for DDH C12-01,12-02 C11-01 Geology/Alteration
Datum: GCS North American 1983 CSRS	
Projection: NAD 1983 CSRS UTM Zone 10N	
Drawn By: SMART MAP	Date: June, 2012
Approved By:	
Version: A	Fig No: No.

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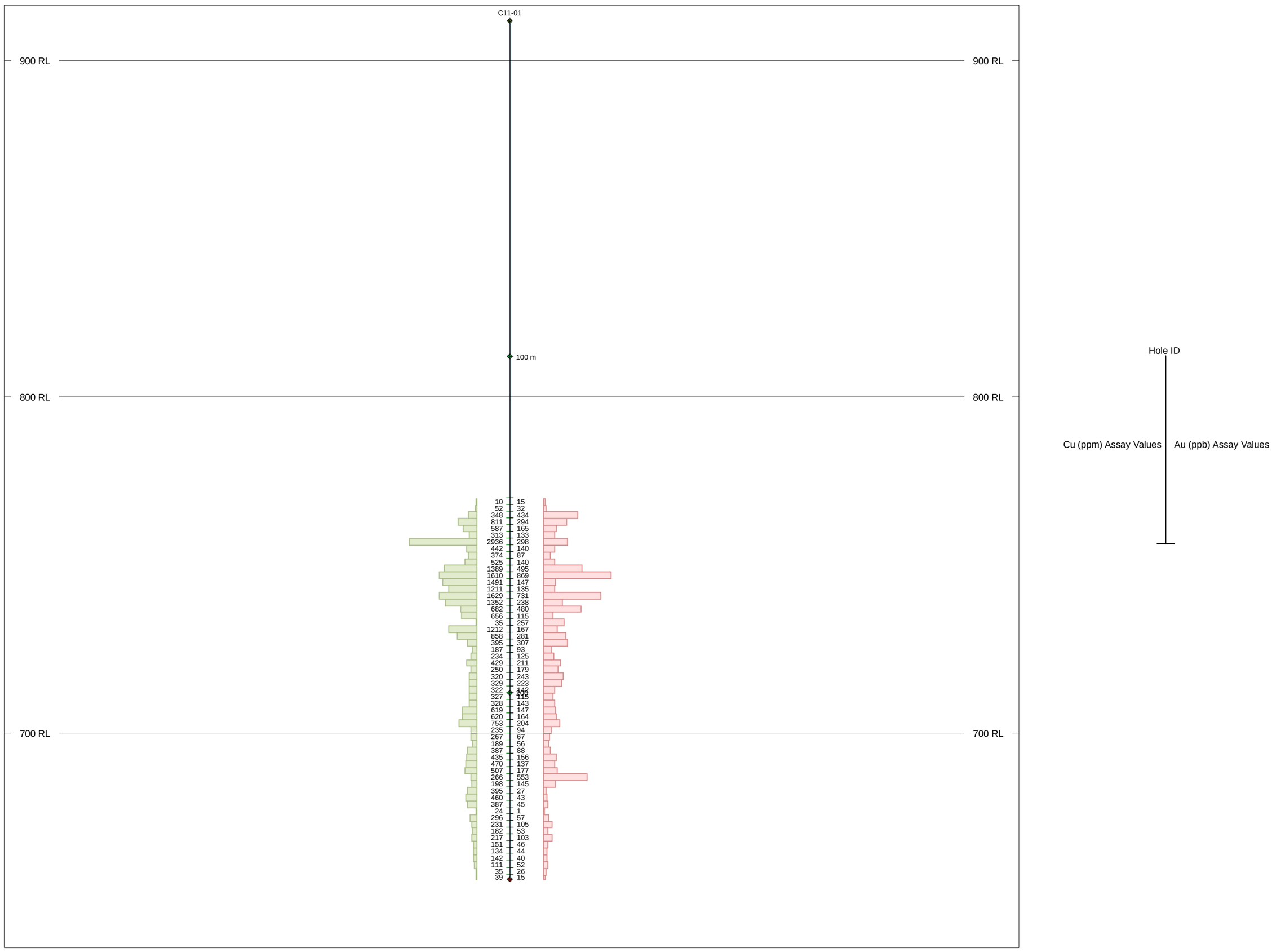

Hole ID: C11-01
Azimuth: 000
Dip: -90
Length of Hole: 255.42m

0 25 50 Meters

1:1,000

ORESTONE MINING CORP.

Project Name: Captain Property	Cross Section for DDH C11-01 Au (ppb) , Cu (ppm)
Datum: GCS North American 1983 CSRS	
Projection: NAD 1983 CSRS UTM Zone 10N	
Drawn By: SMART MAP	Date: June, 2012
Approved By:	Version: A
Fig No: No.	

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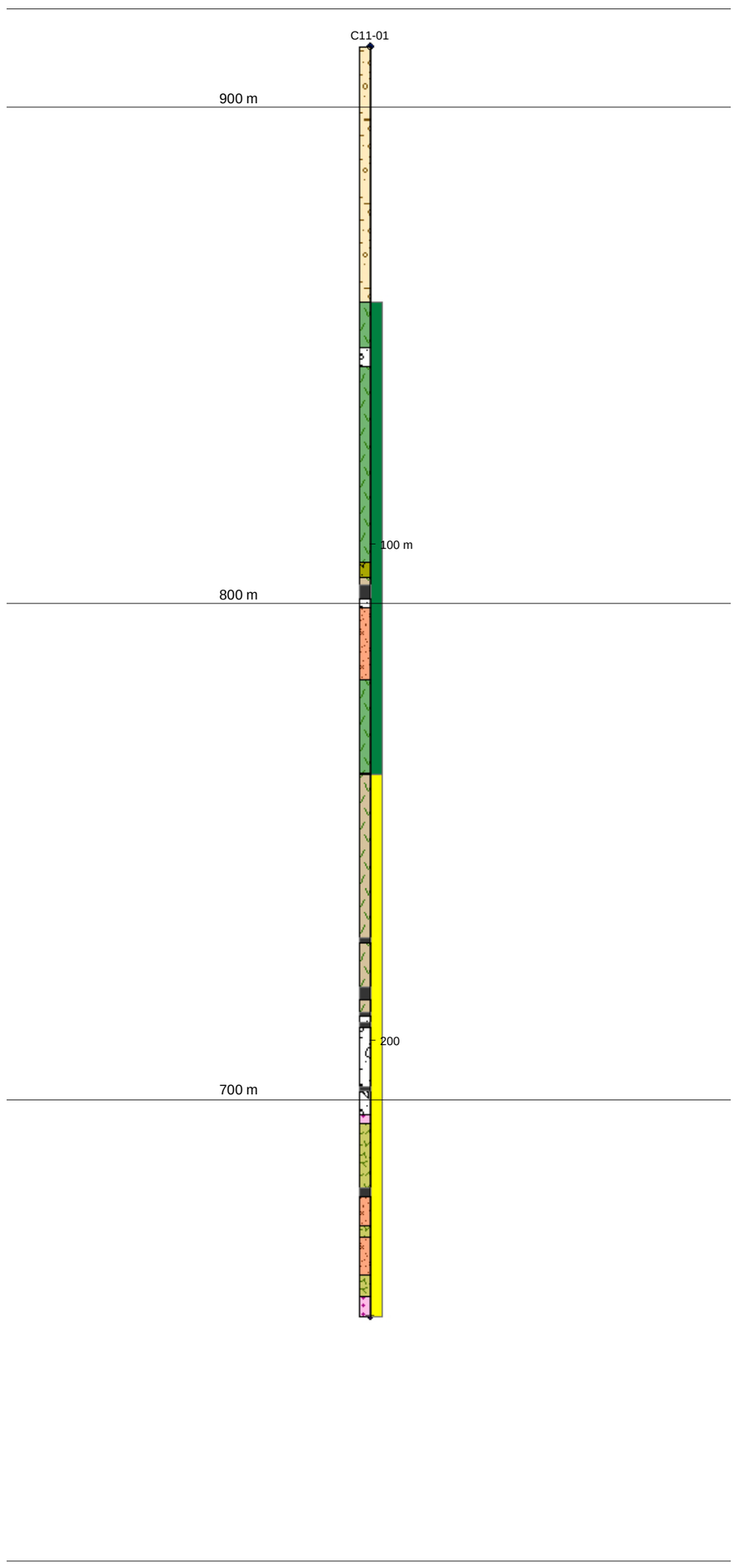

Alteration

- PROP Propylitic Alteration
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- PHYP Phyllic-Propylitic Alteration
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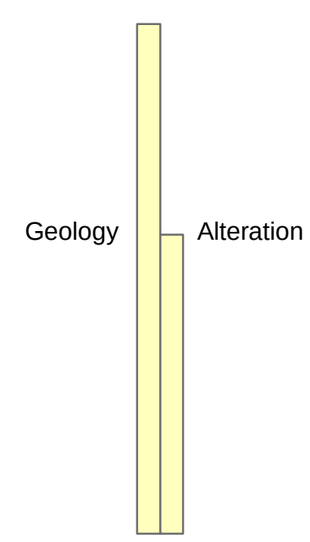
- DRPD Plagioclase Diorite Porphyry
- FAUL Fault
- MONZ Monzonite
- MONZ? Monzonite?
- MZPD Plagioclase Monzonite Porphyry
- PTUN Protolith

Hole ID: C11-01
Azimuth: 000
Dip: -90
Length of Hole: 255.43m



0 25 50 Meters

1:1,000

ORESTONE MINING CORP.

Project Name: Captain Property		Cross Section for DDH C11-01 Geology/Alteration		
Datum: GCS North American 1983				
Projection: NAD 1983 UTM Zone 10N				
Drawn By: SMART MAP	Date: June, 2012	Approved By:	Version: A	Fig No: No.

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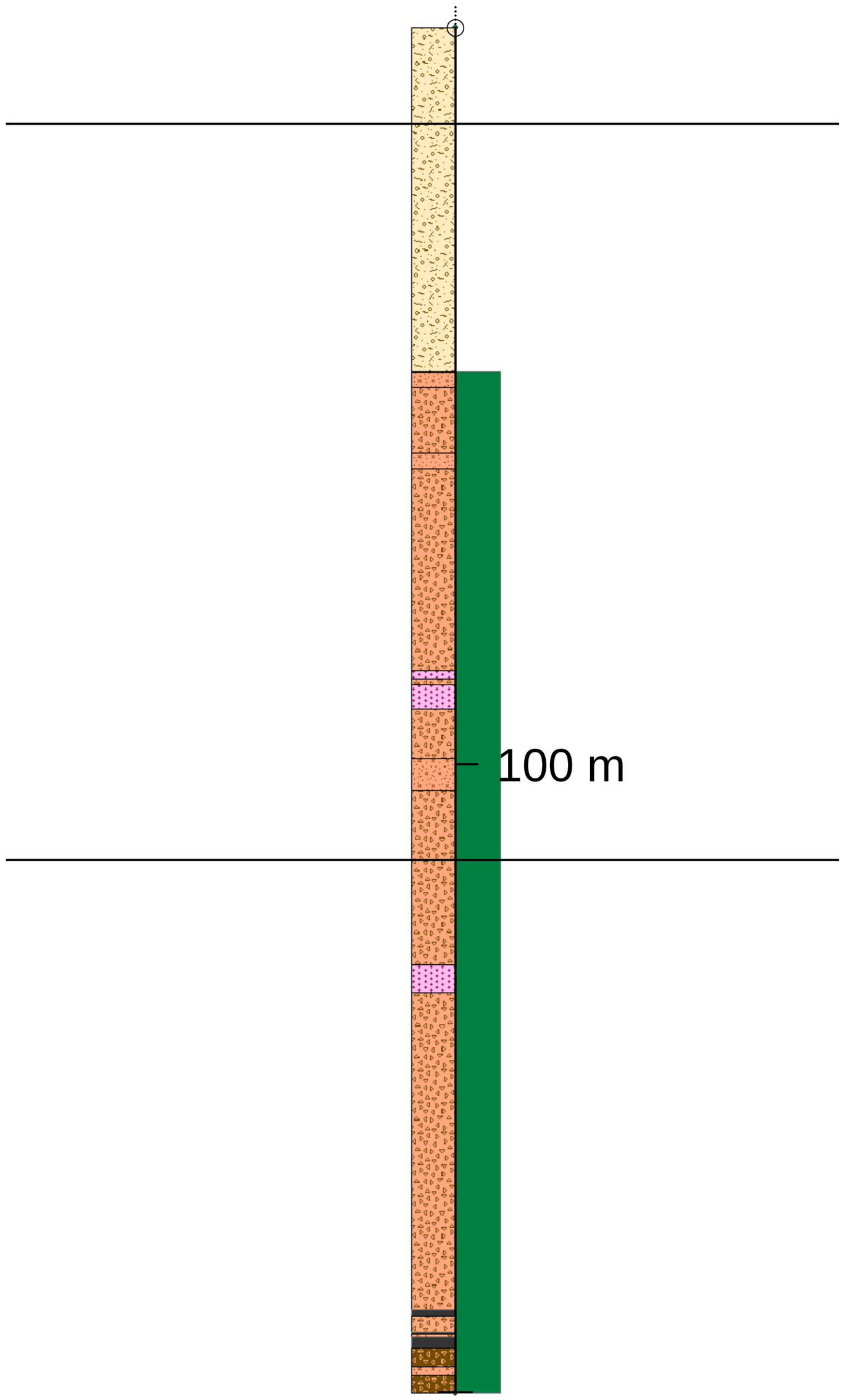
C11-02



Alteration

- PROP Propylitic Alteration
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- PHYP Phyllic-Propylitic Alteration
- PHYA Phyllic Alteration
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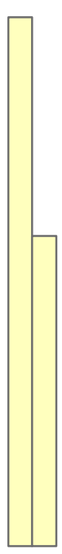
- DRPD Plagioclase Diorite Porphyry
- FAUL Fault
- MONZ Monzonite
- MONZ? Monzonite?
- MZPD Plagioclase Monzonite Porphyry
- PTUN Protolith

Hole ID: C11-02
Azimuth: 000
Dip: -90
Length of Hole: 185.32m



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ORESTONE MINING CORP.

Project Name				
Captain Property		Cross Section for DDH C11-02 Geology/Alteration		
Datum:				
Projection:				
Drawn By: SMART MAP	Date June, 2012	Approved By:	Version A	Fig No No.

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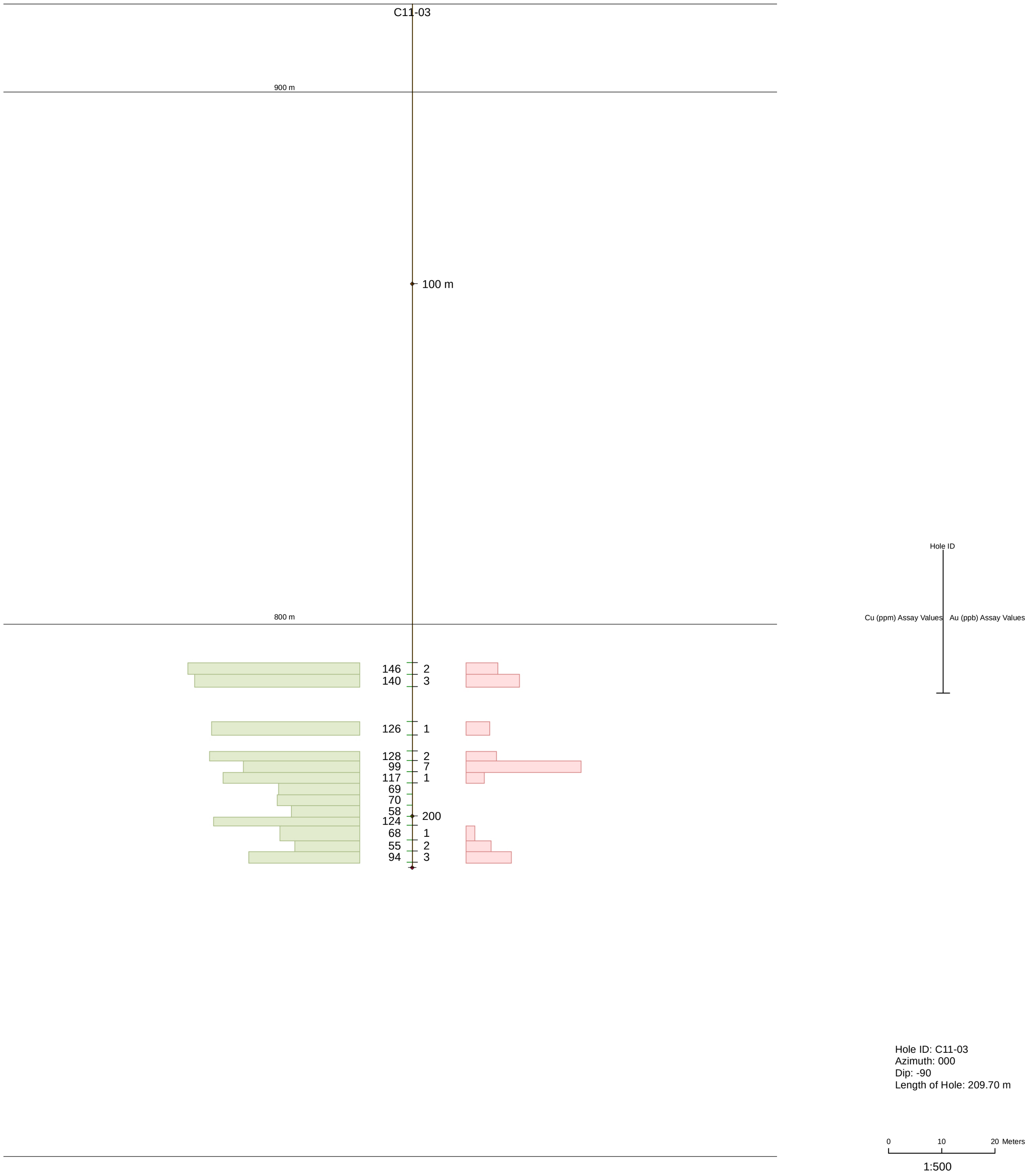

Hole ID: C11-03
Azimuth: 000
Dip: -90
Length of Hole: 209.70 m

0 10 20 Meters

1:500

ORESTONE MINING CORP

Project Name: Captain Property	Cross Section for DDH C11-03 Au (ppb) , Cu (ppm)
Datum: GCS North American 1983 CSRS	
Projection: NAD 1983 CSRS UTM Zone 10N	
Drawn By: SMART MAP	Date: June, 2012
Approved By:	
Version: A	
Fig No: No.	

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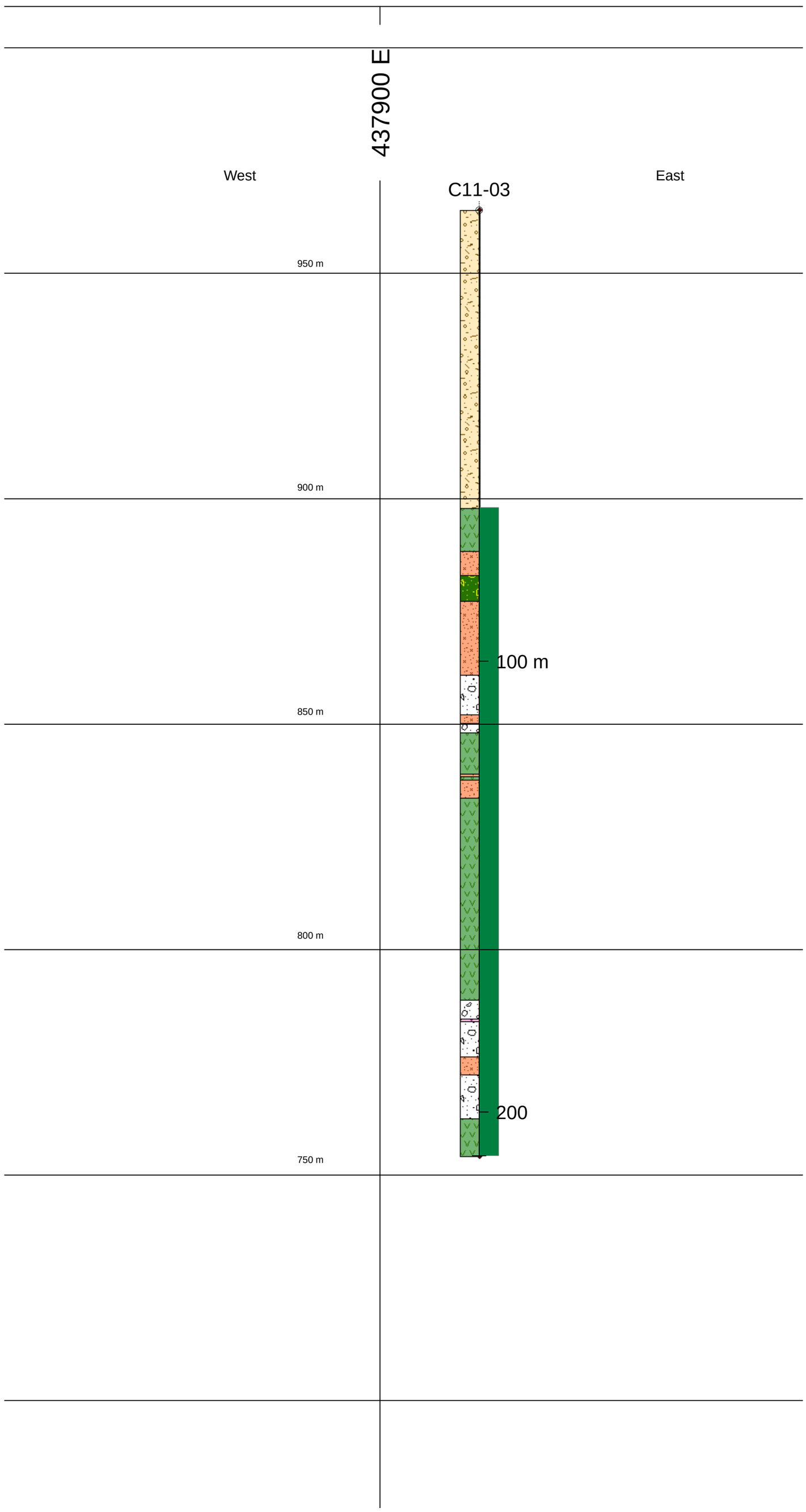

Alteration

- PROP Propylitic Alteration
- POTS Potassic Alteration
- PHYP Phyllic-Propylitic Alteration
- PHYA Phyllic Alteration
- PTRSCRB Potassic-Sericite-Carbonate Alteration

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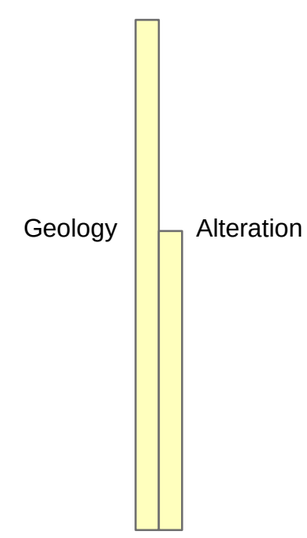
- BREC Breccia
- DRPD Plagioclase Diorite Porphyry
- FAUL Fault
- MONZ Monzonite
- MONZ? Monzonite?
- MZPD Plagioclase Monzonite Porphyry
- PTUN Protolith

Hole ID: C11-03
Azimuth: 000
Dip: -90
Length of Hole: 209.7m



0 10 20 Meters

1:750

ORESTONE MINING CORP.

Project Name: Captain Property	Cross Section for DDH C11-03 Geology/Alteration
Datum: GCS North American 1983	
Projection: NAD 1983 UTM Zone 10N	
Drawn By: SMART MAP	Date: June, 2012
Approved By:	
Version: A	
Fig No: No.	

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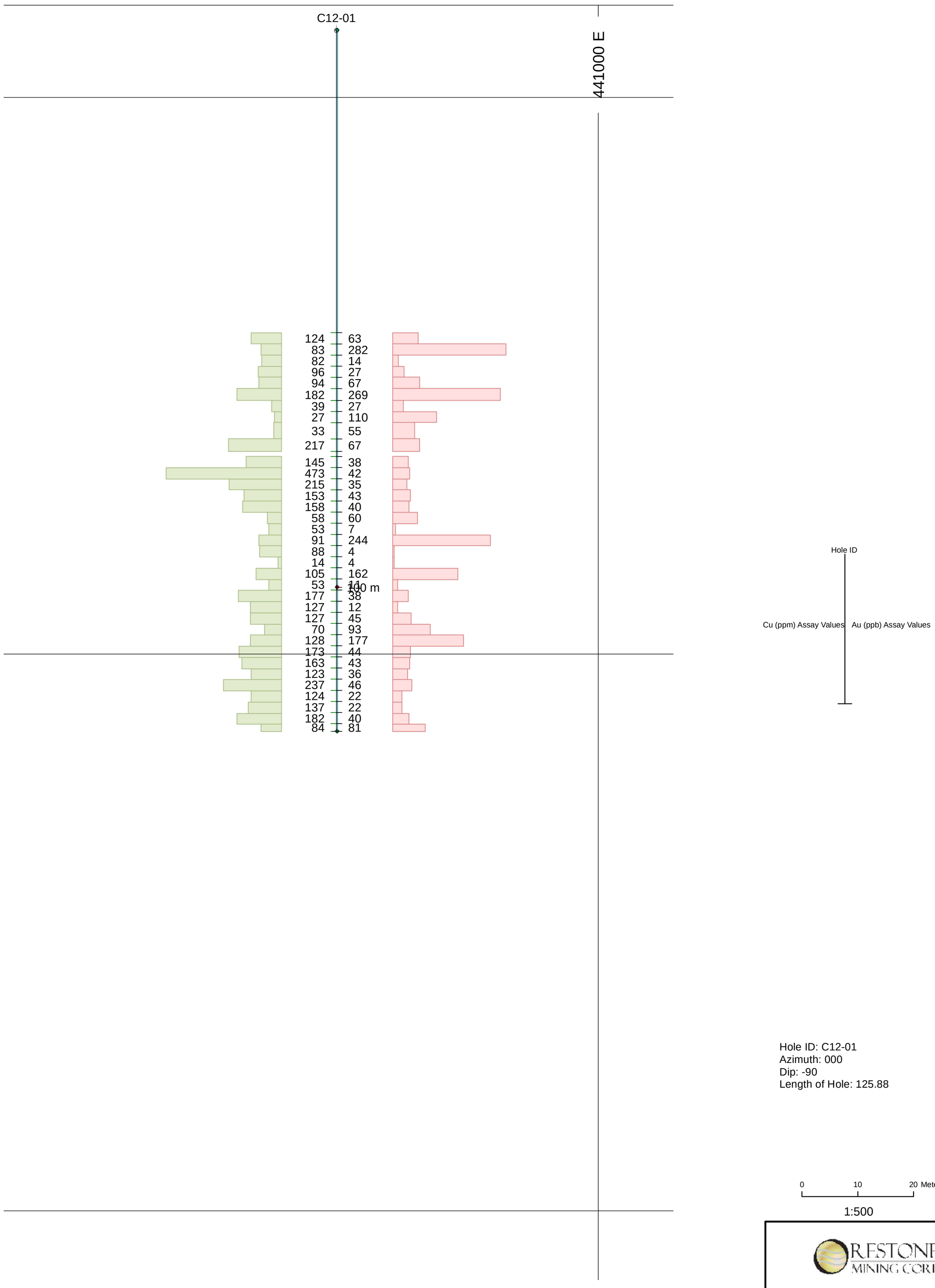

Hole ID: C12-01
Azimuth: 000
Dip: -90
Length of Hole: 125.88

0 10 20 Meters

1:500

ORESTONE MINING CORP.

Project Name: Captain Property	Cross Section for DDH C12-01 Au (ppb) , Cu (ppm)
Datum: GCS North American 1983 CSRS	
Projection: NAD 1983 CSRS UTM Zone 10N	
Drawn By: SMART MAP / Date: June, 2012	Approved By: / Version: A / Fig No: No.

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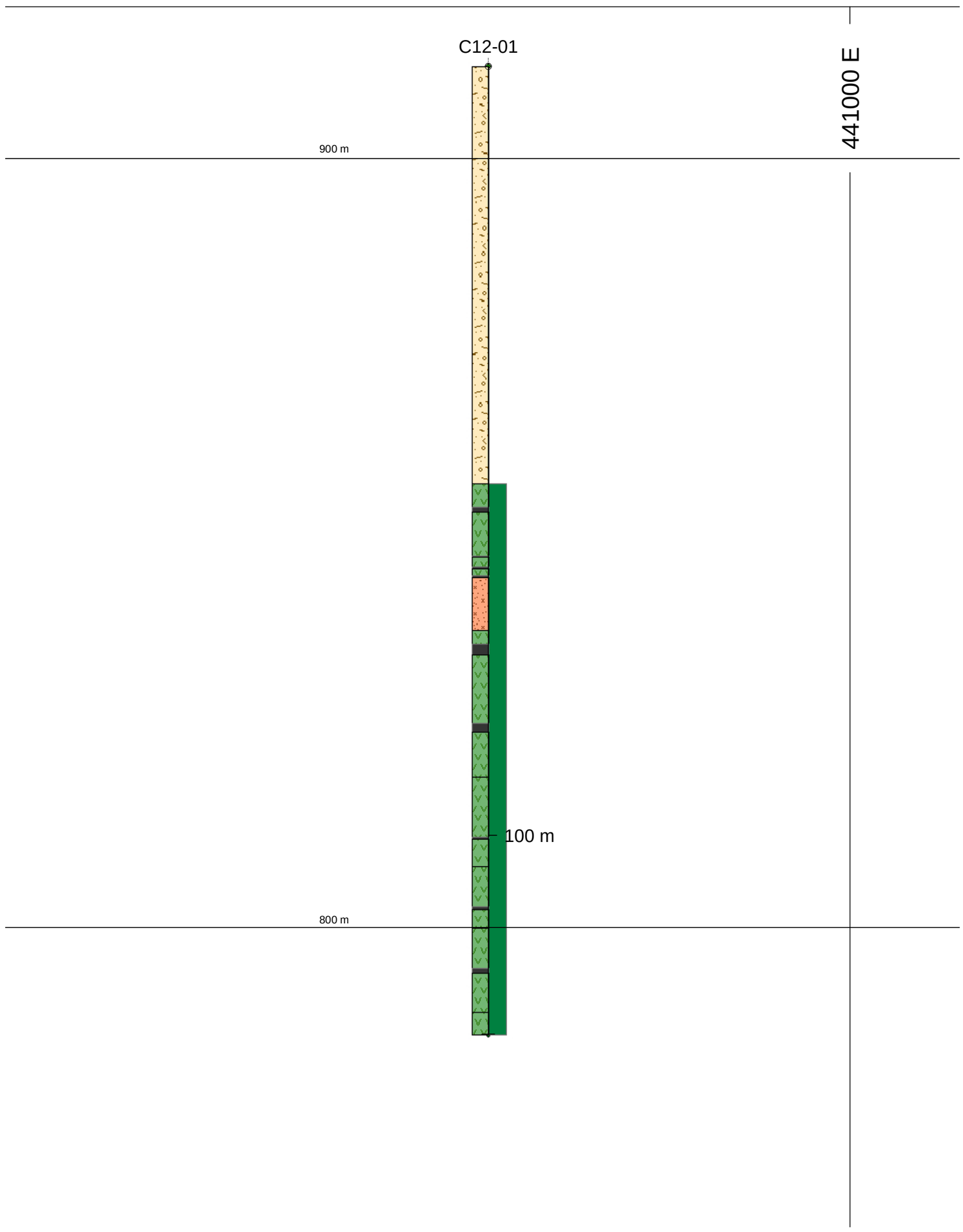

Alteration

- PROP Propylitic Alteration
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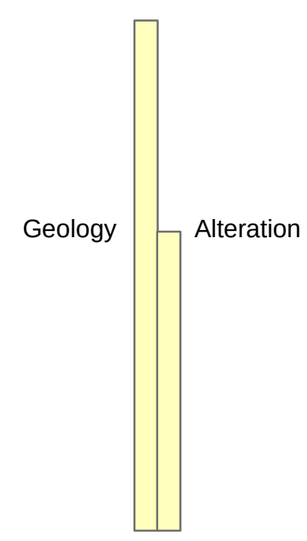
- MONZ? Monzonite?
- MZPD Plagioclase Monzonite Porphyry
- PTUN Protolith

Hole ID: C12-01
Azimuth: 000
Dip: -90
Length of Hole: 125.88



0 10 20 Meters

1:500

ORESTONE MINING CORP.

Project Name: Captain Property	Cross Section for DDH C12-01 Geology/Alteration
Datum: GCS North American 1983 CSRS	
Projection: NAD 1983 CSRS UTM Zone 10N	
Drawn By: SMART MAP	Date: June, 2012
Approved By:	
Version: A	Fig No: No.

Path: D:\Projects\Orestone\Properties\Captain\MXD\Assessment_Reports\2011\Drilling\Orestone_X_Section_C12_01_Geology.mxd

Hole ID

Cu (ppm) Assay Values | Au (ppb) Assay Values

Hole ID: C12-02
Azimuth: 000
Dip: -90
Length of Hole: 499.27

0 30 60 Meters

1:1,250

ORESTONE MINING CORP.

Project Name: Captain Property	Cross Section for DDH C12-02 Au (ppb) , Cu (ppm)
Datum: GCS North American 1983 CSRS	
Projection: NAD 1983 CSRS UTM Zone 10N	
Drawn By: SMART MAP	Date: June, 2012
Approved By:	Version: A
Fig No: No.	

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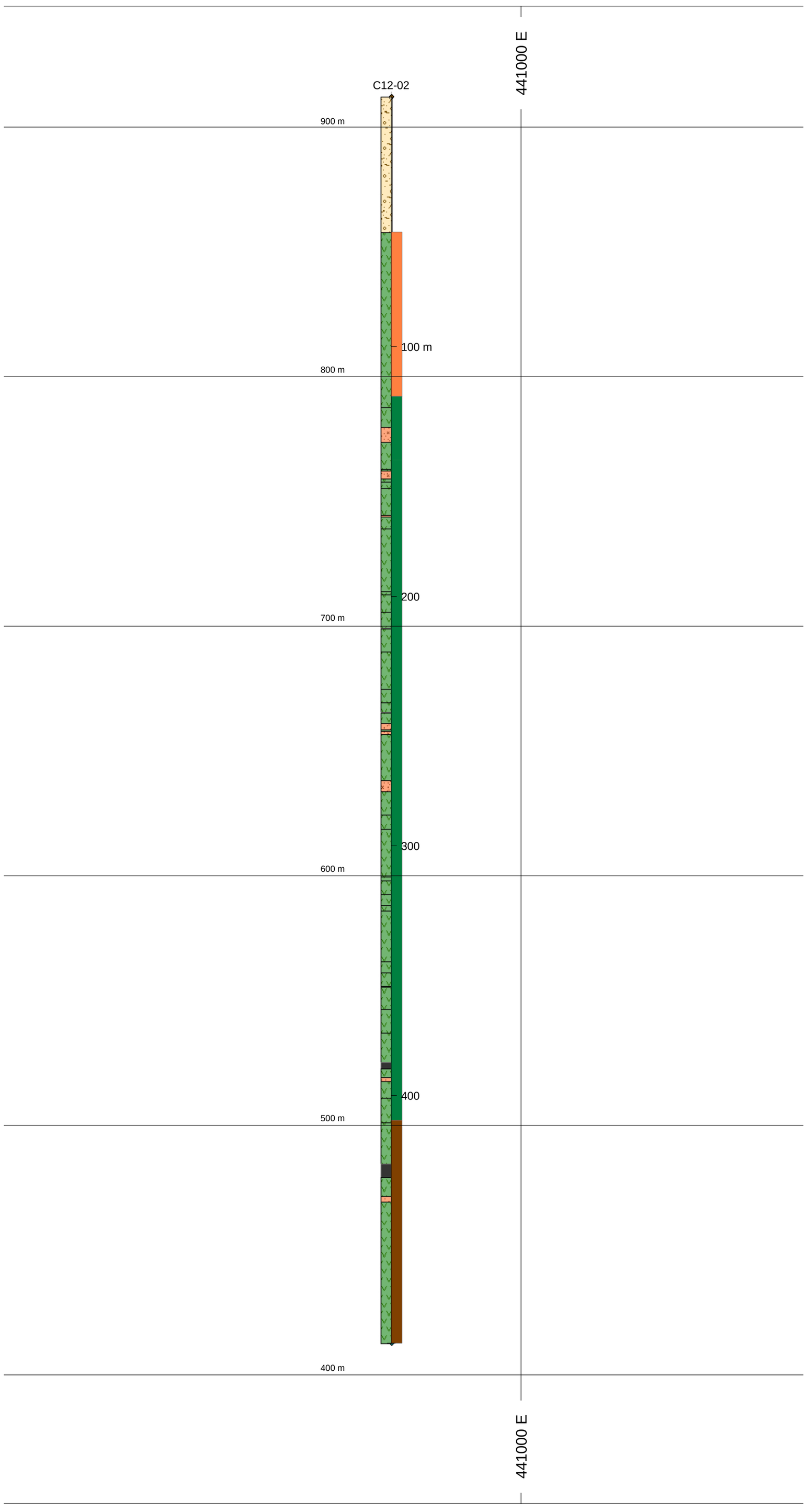

Alteration

- **PROP Propylitic Alteration**
- **POTS Potassic Alteration**
- **PHYP Phyllic-Propylitic Alteration**
- **PHYA Phyllic Alteration**
- **PTRSCRB Potassic-Sericite-Carbonate Alteration**

Geology

- **OVBD Overburden**
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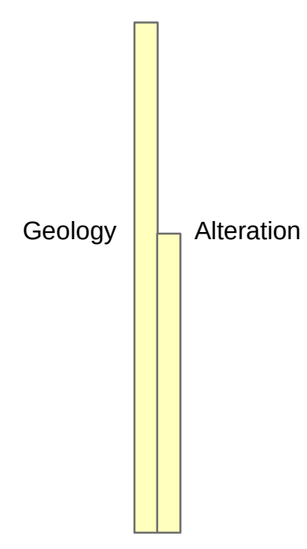
- **FAUL Fault**
- **MONZ Monzonite**
- **MONZ? Monzonite?**
- **MZPD Plagioclase Monzonite Porphyry**
- **PTUN Protolith**

Hole ID: C12-02
Azimuth: 000
Dip: -90
Length of Hole: 499.27m



0 30 60 Meters

1:1,250

ORESTONE MINING CORP.

Project Name: **Captain Property**	**Cross Section for DDH C12-02 Geology/Alteration**
Datum: GCS North American 1983 CSRS	
Projection: NAD 1983 CSRS UTM Zone 10N	
Drawn By: SMART MAP	Date: June, 2012
Approved By:	Version: A
Fig No: No.	

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REPORT NO. MSC11/012R

PETROGRAPHY OF FOUR DRILL CORE SAMPLES FROM THE CAPTAIN PROJECT

Report prepared for
Discovery Resources Corp.
750-625 Howe Street
Vancouver, B.C.
V6C 2T6

By
Mineral Services Canada Inc.
205-930 Harbourside Drive
North Vancouver, B.C.
V7P 3S7

May 4, 2011

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APPENDIX A: SAMPLE DESCRIPTIONS

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PETROGRAPHY OF FOUR DRILL CORE SAMPLES FROM THE CAPTAIN PROJECT

1. INTRODUCTION

This report presents the results of petrographic analyses of four core samples received from Gary Nordin of Discovery Resource Corp. The aim of the study was to characterize the lithology (where possible), alteration and ore associations of the samples. The list of samples examined as part of the investigation is given in Table 1.

Table 1: List of samples examined as part of this investigation.

MSC #	Sample Number
1	09-05 @ 83.2m
2	09-05 @ 126.0m
3	09-05 @ 135.15m
4	09-05 @ 137m

2. METHODS

The core samples were forwarded to Vancouver Petrographics, where a 30 µm thick polished thin section of each sample was prepared. The thin section offcuts were stained for K-feldspar in order to readily distinguish K-feldspar from quartz and untwined plagioclase. The stain is applied by immersing the offcut into a solution of sodium cobaltinitrite, process during which the potassium feldspar takes a yellow stain.

Petrographic descriptions were performed in the office of Mineral Services Canada Inc. using a Nikon Eclipse E400 microscope equipped with transmitted and reflected light. The microscopic characteristics of the samples are described in Appendix A and are illustrated in a series of representative photomicrographs presented in Appendix B. The main characteristics of the samples are described below.

All modal abundance percentages in the descriptions are approximate.

3. RESULTS

3.1. LITHOLOGY

Three rock types are represented in the samples examined for this study:

(i) Possible monzonite (sample 1)

(ii) Plagioclase porphyry (sample 2)

(iii) Possible clastic rock (samples 3 and 4)

3.1.1 POSSIBLE MONZONITE

The sample is of an altered fine-grained rock, essentially made up of feldspars (70%, 0.2-2.5 mm in size), altered mafic grains (8-10%, 0.1-0.5 mm in size), altered grains of an undetermined accessory phase (5%, 50-250 microns in size) and a weakly developed interstitial groundmass (15%).

Feldspars are sub- to euhedral, twinned, concentrically zoned and variably altered. When preserved from alteration, twinning is polysynthetic suggesting feldspars are of plagioclase. Pseudomorphs (10-15%) are also present and it is unclear if these occur after primary plagioclase and/or K-feldspar. Alteration is typically marked by replacement of feldspar cores by sericite ± carbonate ± pyrite ± brown clay and a thin rim of clear possible albite. Patches of secondary K-feldspar locally occur in both plagioclase cores and rims. Mafic pseudomorphs are made up of chlorite ± rutile ± pyrite. Outlines are anhedral to subrounded (after possible pyroxene). Disseminated tabular to squared skeletal clusters of acicular rutile occur throughout the samples, are typically rimmed by a corona of very fine-grained pyrite and likely replace a primary Ti-bearing accessory phase.

The interstitial ill-defined groundmass is made up of K-feldspar (indicated by stain) ± carbonate ± quartz ± sericite and contains disseminated very fine-grained rutile and pyrite. Chalcopyrite also occurs. It is very fine-grained (<50 microns) and occurs disseminated in the groundmass or intergrown with pyrite.

The sample is interpreted to be an altered possible monzonite, based on the high amount of plagioclase (versus K-feldspar) and the low abundance of quartz and mafic minerals.

3.1.2 PLAGIOCLASE- PORPHYRY

The sample is of altered porphyritic rock that is made up of euhedral, twinned plagioclase phenocrysts (20%, 0.5-2.5 mm in size) and anhedral to tabular mafic pseudomorphs (10-15%, 0.25-2 mm in size) in a fine-grained groundmass of plagioclase laths and alteration minerals. The mafic phase(s) is/are pervasively altered and cannot be definitively identified.

The plagioclase phenocrysts are variably pitted and replaced by carbonate (± pyrite ± chlorite) and mafic pseudomorphs are made up of chlorite + pyrite + rutile ± carbonate. In the groundmass, plagioclase laths are pitted by chlorite (± carbonate) and occur with interstitial chlorite (± pyrite ± rutile).

Two irregular veins of granular possible albite (± chlorite ± carbonate) with developed K-feldspar alteration halos up to one cm thick cut the sample. In these alteration halos, carbonate is less common, most of the plagioclase being altered by patchy brown secondary K-feldspar.

Thin carbonate (± pyrite) veinlets and carbonate + quartz + pyrite + chalcopyrite also cut the sample. The carbonate (± pyrite) veinlets are locally superimposed on the albite veins.

Chalcopyrite is slightly more abundant than in sample 1 and slightly coarser-grained (tr-1%, 0.02-0.1 mm in size). It occurs disseminated and its distribution is inhomogeneous, with most of the chalcopyrite being concentrated in the potassic alteration halos.

3.1.3 POSSIBLE CLASTIC ROCK

Possible clastic material is recognized in samples 3 and 4. These samples are pervasively altered, but variations in the type and amount of alteration minerals define 1 to 25 mm sized subangular clusters that suggest clastic textures.

In sample 3, ill-define clasts are made up of microcrystalline clay (illite?) ± sericite ± carbonate ± chlorite ± rutile ± pyrite ± chalcopyrite ± sphalerite or of K-feldspar? ± sericite ± rutile ± pyrite. The latter clusters are typically smaller with more tabular shapes. The groundmass around clasts is also microcrystalline, made up of chlorite + rutile + pyrite (± ?quartz ± carbonate) with the abundance of sulphides being higher in the groundmass than in the clasts. Numerous thin veins of carbonate (± gypsum) and open fractures cut the samples and are commonly lined by sericite.

In sample 4, clasts are made up of microcrystalline plagioclase ± K-feldspar (stain) ± pyrite ± rutile ± carbonate ± chlorite or of chlorite + carbonate + pyrite ± rutile. The groundmass around clasts is made up of microcrystalline clay (possible illite?) and chlorite with disseminated carbonate, rutile, pyrite and chalcopyrite. Variations in the abundance of alteration minerals define coronas around clasts.

Variably thick veins of carbonate ± pyrite ± possible albite cross-cut the sample as well as some discontinuous pyrite veinlets.

3.2. ALTERATION

3.2.1 POTASSIC ALTERATION

Weak potassic alteration is observed in all samples. It is characterized by the presence of dark brown, secondary fine-grained K-feldspar that is vein-related in sample 2 and patchy in samples 3 and 4. In sample 1, K-feldspar occurs as pitting of plagioclase cores and in the interstitial groundmass around plagioclase. It is unclear if all K-feldspar in this sample is of secondary origin. Based on K-feldspar stain, alteration intensity is strongest in sample 3. Chalcopyrite, possible albite and gypsum (in sample 4 only, likely after anhydrite) are the only other minerals characteristic of potassic alteration that are preserved in the samples.

3.2.2 CHLORITE-SERICITE ALTERATION

Chlorite-sericite alteration is observed in all samples and is marked by selective to pervasive chlorite ± sericite ± pyrite ± chalcopyrite development. Clay (illite) is additionally observed in sample 4

associated with chlorite-sericite alteration. Carbonates other than calcite (possibly dolomite and / or ankerite) are ubiquitous in samples 1, 2 and 4 and are likely associated with chlorite-sericite alteration.

3.3. MINERALIZATION

All four samples contain significant amounts of pyrite (10-20%) and less than 1% chalcopyrite. Pyrite is fine- to very fine-grained, typically disseminated as alteration products of undetermined mafic phases. It locally also occurs in veins that can be of monomineralic pyrite or of carbonate ± pyrite ± albite. Chalcopyrite is fine- to very fine-grained and typically set in zones of potassic alteration.

Fine-grained sphalerite occurs disseminated within sample 3.

4. SUMMARY AND CONCLUSIONS

The results of petrographic analyses of four core samples are presented in this report. The purpose of the study was to characterize the lithology, alteration and ore associations occurring in the samples. The main conclusions are summarized below.

- Lithologies are varied and locally difficult to determined due to alteration. Three rock types are defined: possible monzonite (sample 1), plagioclase porphyry (sample 2) and undetermined possible clastic material (samples 3 and 4).
- Two main alteration phases are recognized in the samples: potassic and chlorite-sericite.
- Potassic alteration is marked in the samples by the patchy to vein-related development of K-feldspar (± chalcopyrite ± gypsum ± albite).
- Chlorite-sericite alteration is marked by the patchy to pervasive development of chlorite ± sericite ± carbonate ± pyrite ± chalcopyrite.
- Samples typically contain pyrite that occurs disseminated as a result of chlorite-sericite alteration or that occurs in veins.
- Small amounts of chalcopyrite occur in all samples with chalcopyrite being concentrated in zones of potassic alteration. Sphalerite additionally occurs as disseminated grains in sample 3.

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Report reviewed by:
Tom Nowicki, Ph. D., P. Geo.

APPENDIX A: SAMPLE DESCRIPTIONS

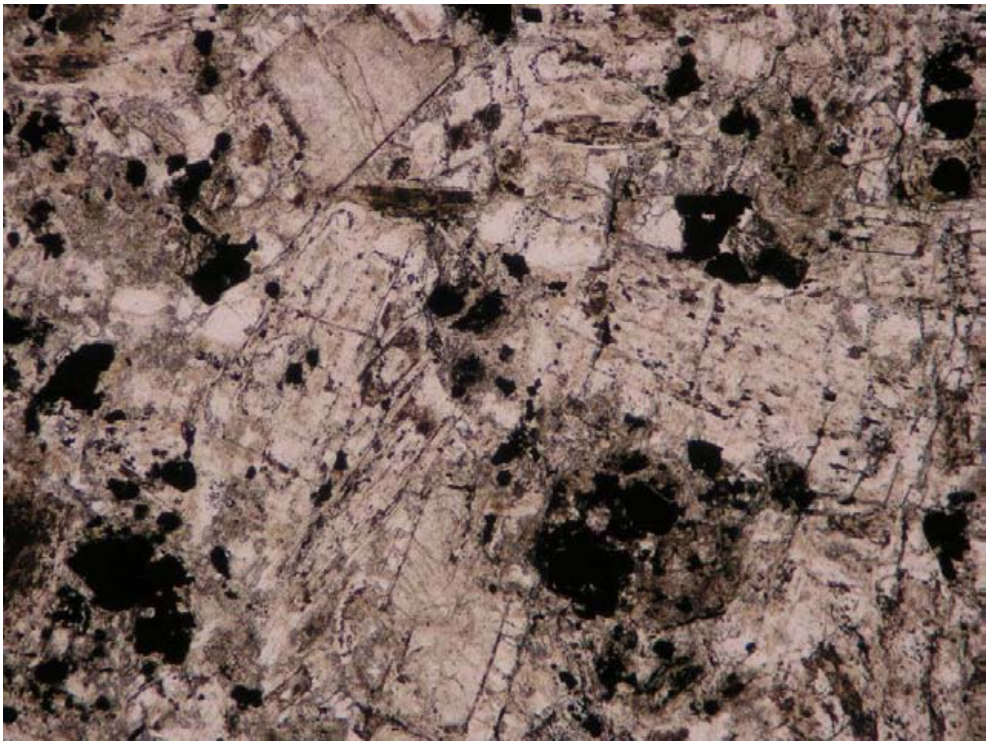
MSC Sample Name	Sample Name	Lithology	Alteration	Mineralization	Sample Description
1	**09-05 @ 83.2m**	Monzonite	Potassic Chlorite-sericite	Pyrite Chalcopyrite	Altered subhedral granular possible mafic- and plagioclase-phyric monzonite, essentially made up of sub- to euhedral plagioclase (and altered K-feldspar?); plagioclase twinned, with concentric zoning; feldspars variably replaced in their cores by sericite ± carbonate ±pyrite ± brown clay) and along rims of clear ?albite; no mafic phases observed but clusters of skeletal chlorite ± rutile + pyrite suggest mafic pseudomorphs; clusters of rutile ± pyrite also present, possibly as alteration of primary accessory Ti-bearing phase; interstitial ill-defined groundmass of K-feldspar (indicated by stain) ± quartz ± sericite ± carbonate; pyrite and chalcopyrite disseminated in the groundmass
2	**09-05 @ 126.0m**	Mafic-plagioclase porphyry	Potassic Chlorite-sericite	Pyrite Chalcopyrite	Altered porphyritic rock, made up of subhedral variably altered plagioclase phenocrysts and anhedral undetermined mafic pseudomorphs in a finer-grained groundmass of plagioclase laths; plagioclase phenocrysts variably pitted by carbonate (± pyrite ± chlorite); plagioclase laths less altered, pitted by chlorite (± carbonate); pseudomorphs after mafic phase made up of chlorite + pyrite + rutile ± carbonate; interstitial groundmass made up of chlorite with disseminated pyrite and rutile; Two irregular veins of granular possible albite (± chlorite ± carbonate) with K-feldspar alteration halo cut the sample; thin carbonate (± pyrite) veinlets and carbonate + quartz + pyrite + chalcopyrite present.
3	**09-05 @ 135.15m**	Clastic rock?	Potassic Chlorite-sericite	Pyrite Chalcopyrite Sphalerite	Pervasively altered patchy, vaguely clastic rock, extensively veined and fractured; ill-defined subangular microcrystalline brownish clasts made up of clay (illite?) ± sericite ± carbonate ± chlorite ± rutile ± pyrite ± chalcopyrite ± sphalerite or of microcrystalline feldspar ± sericite ± rutile ± pyrite in a microcrystalline groundmass of chlorite + rutile + pyrite (± ?quartz ± carbonate); K-feldspar stain throughout the samples, patchy, occurring in clasts and in the groundmass; veinlets of carbonate (± gypsum) and open fractures crosscutting the sample, commonly lined by sericite
4	**09-05 @ 137m**	Clastic rock?	Potassic Chlorite-sericite	Pyrite Chalcopyrite	Pervasively altered patchy, vaguely clastic rock, made up of ill-defined subangular microcrystalline clasts in a microcrystalline groundmass; Clasts made up of 1) feldspar (K-feldspar indicated by stain) ± pyrite ± rutile ± carbonate ± chlorite or of 2) chlorite + carbonate + pyrite ± rutile; groundmass made up of clay (possible illite?), chlorite with disseminated carbonate, rutile and pyrite, chalcopyrite; some variations in abundance of alteration minerals defining coronas in clasts; Variably thick veins of carbonate ± pyrite ± quartz cross-cutting the sample; some discontinuous pyrite veinlets also throughout

MSC Sample Name	Sample Name	Quartz (%)	K-feldspar (%)	Plagioclase (%)	Sericite (%)	Carbonate (%)	Rutile (%)	Chlorite (%)	Clay (%)	Gypsum (%)	Pyrite (%)	Chalcopyrite (%)
1	**09-05 @ 83.2m**	2	10	25	15	20	tr	7	0	0	20	tr
2	**09-05 @ 126.0m**	2	8	25	2	20	2	25	0	0	12	tr-1
3	**09-05 @ 135.15m**	?	20	5	20	5	3	20	15	tr	10	tr-1
4	**09-05 @ 137m**	?	3	15	5	15	5	25	20	0	10	1

APPENDIX B: REPRESENTATIVE PHOTOMICROGRAPHS

List of abbreviations used in the description of photomicrographs:

FOV: Field of view – defined for the long dimension of photomicrographs
PPL: Plane polarized light
XPL: Crossed polars
RL: Reflected light



A)

B)

Figure 1: *Photomicrographs of sample 1 showing the subhedral texture of the monzonite sample marked by the dominant presence of plagioclase. Clusters of opaque minerals are disseminated and cores of plagioclase are replaced by sericite. A) PPL, B) XPL, FOV = ~ 7 mm.*

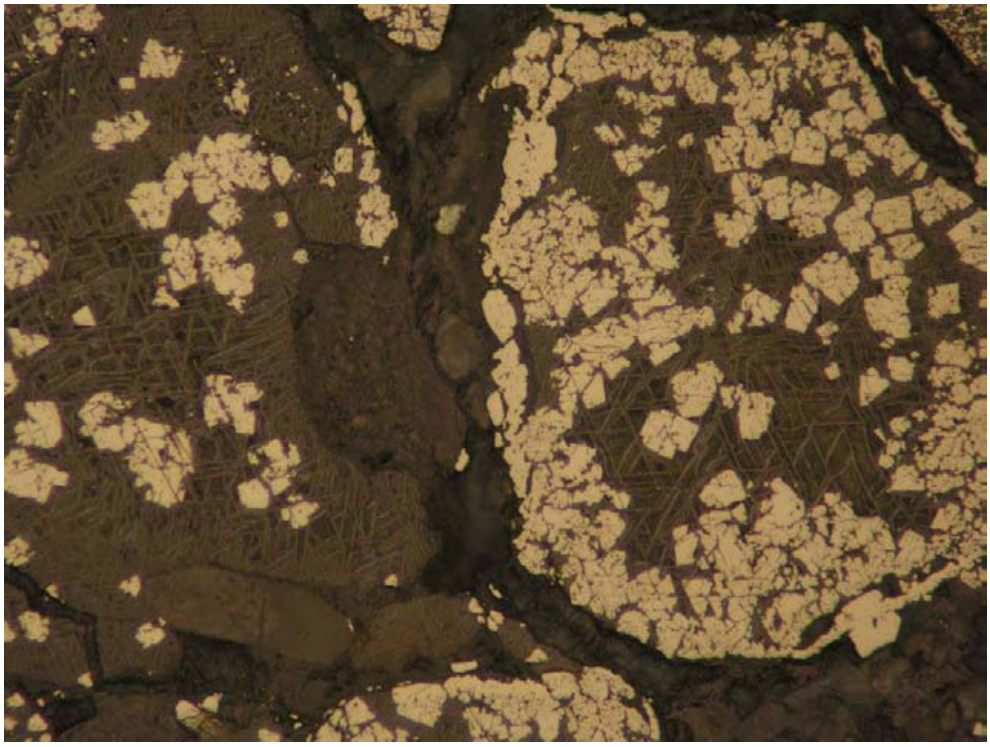
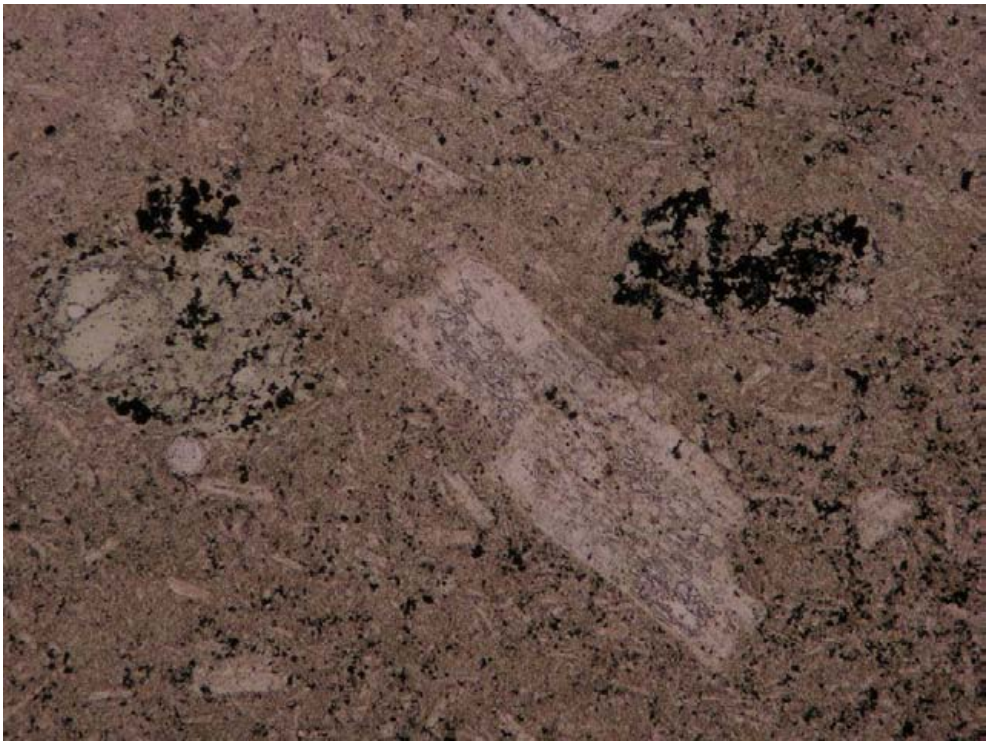
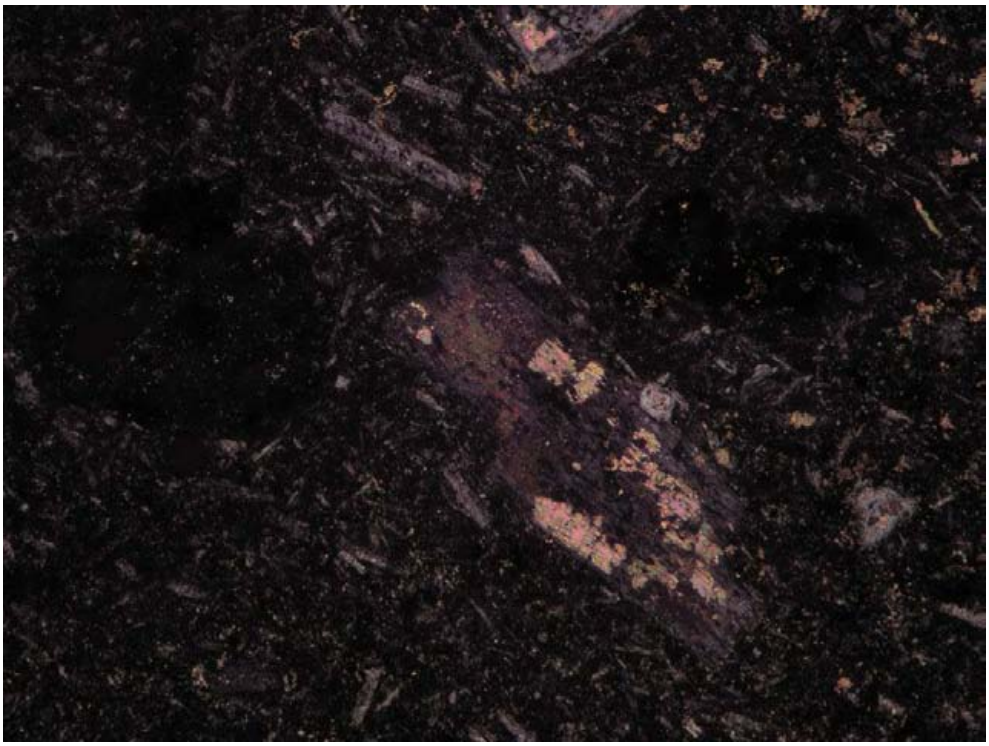


Figure 2: *Photomicrograph of sample 1 showing pseudomorphs made up of acicular rutile and granular pyrite after an undetermined mineral phase. RL, FOV = ~ 0.7 mm.*

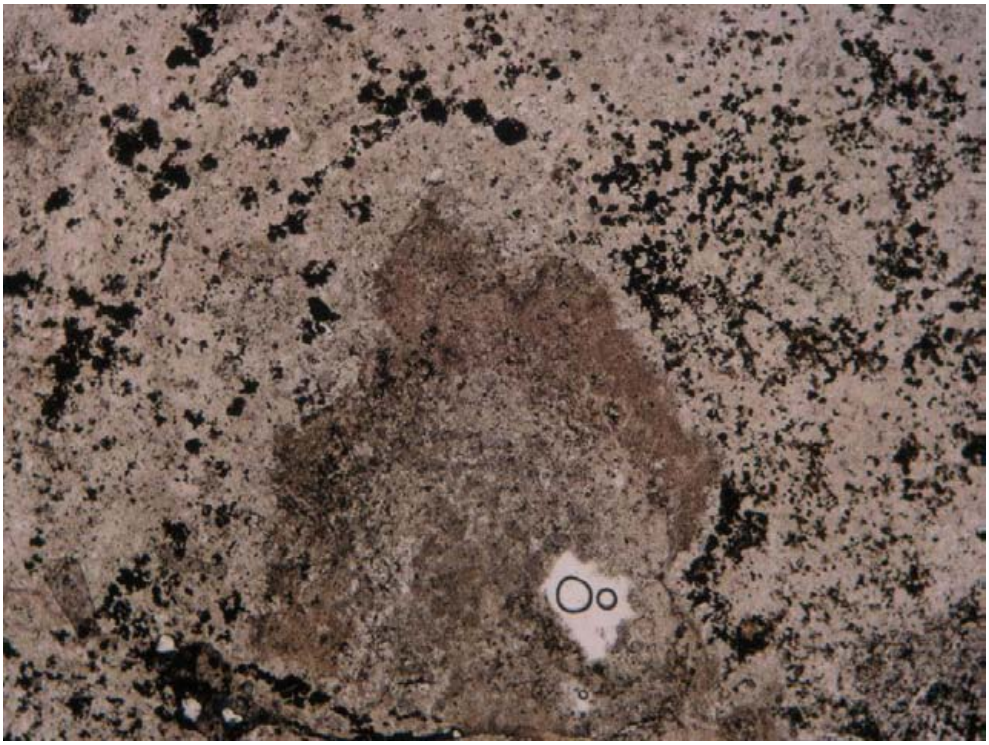


A)

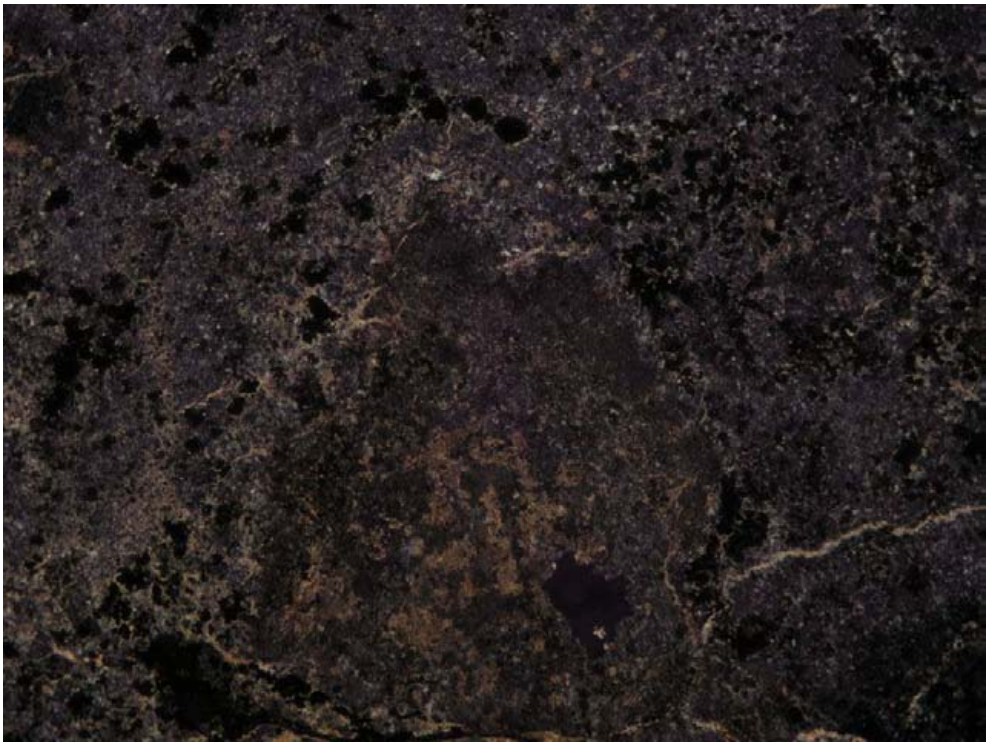


B)

Figure 3: *Photomicrographs of the plagioclase porphyry (sample 2) showing patches of carbonate replacing the plagioclase phenocrysts while former mafic phenocrysts are replaced by chlorite + rutile + pyrite. A) PPL, B) XPL, FOV = ~ 7 mm.*



A)



B)

Figure 4: *Photomicrograph of sample 3 showing a possible lithic clast made up of microcrystalline clay (+ rutile + pyrite) in its rim and of fine-grained granular carbonate in its core. A) PPL, B) XPL, FOV = ~ 7 mm.*

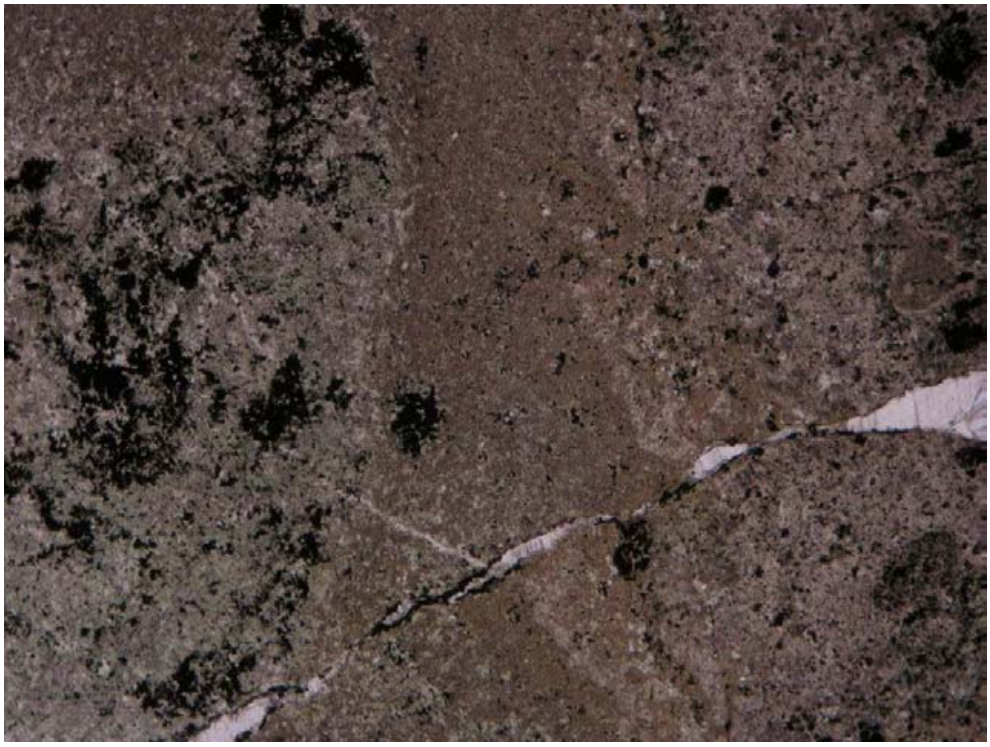


Figure 5: *Photomicrograph of the clastic sample 4 showing the occurrence of a chlorite-sulphide-dominated clast and of a feldspar-carbonate clast (right) in a microcrystalline groundmass of chlorite, clay and carbonate. PPL, FOV = ~ 7 mm.*

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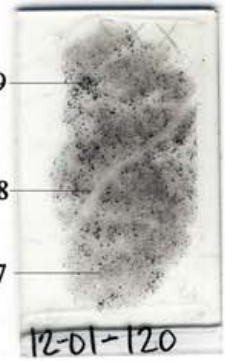
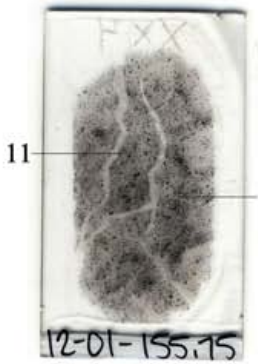
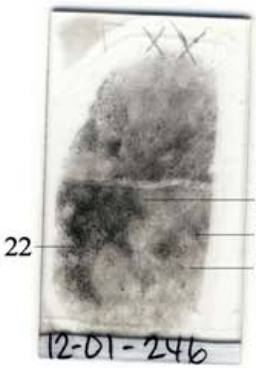
120153 orestone sections

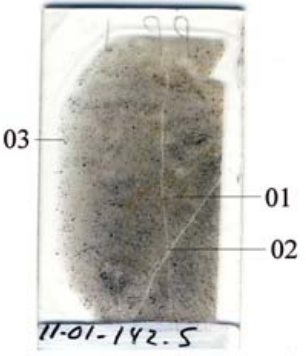


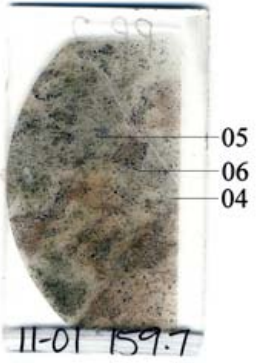


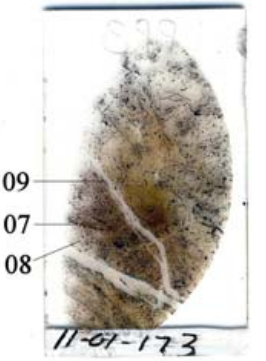


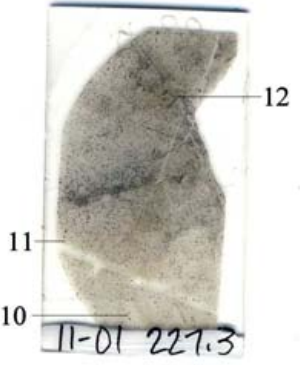
120319 orestone blocks

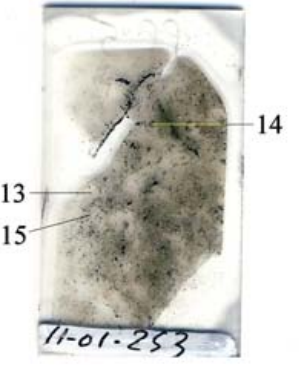
120319 orestone sections











Report 120319 for
Ross Zawada,
Orestone Mining Corp.,
750 – 625 Howe Street,
Vancouver, BC, V6C 2T6 **April, 2012**

Samples: 11-01: 142.5, 159.7, 173.0, 227.3, 253.0

Summary:

Sample 11-01 142.5 contains minor relic plagioclase and a few patches of quartz that are enclosed in a groundmass of cryptocrystalline kaolinite, with less abundant cryptocrystalline semi-opaque (clinozoisite?) and patches of sericite, with disseminated ragged grains of pyrite. A set of a few veinlets is of ankerite. A later veinlet is of cherty quartz and lesser ankerite.

Sample 11-01 159.7 is a metamorphosed latite flow(?) that is dominated by extremely fine grained to cherty plagioclase with accessory patches of chlorite, disseminated cryptocrystalline clinozoisite(?), and minor disseminated pyrite and magnetite. Irregular replacement patches are of slightly coarser grained K-feldspar with disseminated patches of chlorite, of ankerite, of magnetite/hematite, of pyrite, and lesser disseminated patches of chalcopyrite.

Sample 11-01 173 is dominated by an intimate intergrowth of cryptocrystalline to extremely fine grained ankerite and sericite/kaolinite, with abundant disseminated patches of magnetite (altered completely to hematite) and much less abundant pyrite. A few wispy veinlets are of magnetite/hematite and lesser pyrite. A few braided veins are of calcite with minor sericite along their margins and with associated lenses of pyrite in the adjacent wall rock. A few irregular discontinuous veinlets are of sericite with megacrysts of calcite and minor pyrite.

Sample 11-01 227.3 consists of extremely fine grained plagioclase/quartz (possibly a dacite or latite flow) with much less abundant chlorite and ilmenite (altered completely to leucoxene); it was replaced strongly by ankerite with minor disseminated pyrite and minor patches of sericite. A few irregular veinlets are of calcite.

Sample 11-01 253 was altered very strongly to an intimate, patchy intergrowth of K-feldspar and ankerite with disseminated grains and patches of pyrite and minor ones of chalcopyrite. A veinlet is of pyrite. A few veinlets are of calcite.

Sample 11-01 142.5 Kaolinite-Clinozoisite(?)-Sericite-Plagioclase/Quartz-Pyrite

The sample contains minor relic plagioclase and a few patches of quartz that are enclosed in a groundmass of cryptocrystalline kaolinite, with less abundant cryptocrystalline semi-opaque (clinozoisite?) and patches of sericite, with disseminated ragged grains of pyrite. A set of a few veinlets is of ankerite. A later veinlet is of cherty quartz and lesser ankerite.

mineral	**percentage**	**main grain size range**
kaolinite	50-55%	cryptocrystalline-0.007
clinozoisite(?)	12-15	cryptocrystalline
sericite	5- 7	0.01-0.015
plagioclase	3- 5	0.01-0.05
magnetite/hematite	2- 3	0.03-0.1 (a few up to 0.2 mm)
pyrite	0.3	0.02-0.1
chalcopyrite	0.1	0.02-0.05
ilmenite	minor	0.02-0.05
veinlets		
1) ankerite	1- 2	0.05-0.1
2) cherty quartz-(ankerite)	1- 2	0.005-0.015 (qz), 0.02-0.05 (ak)
3) kaolinite-chalcopyrite-(pyrite)		

Scattered anhedral grains and clusters of a few grains from 0.1-0.5 mm in size were altered to aggregates of slightly interlocking quartz and minor sericite; they may be secondary after plagioclase phenocrysts.

The groundmass is mainly cryptocrystalline and much of it is difficult to identify optically. It consists of a patchy, commonly intimate intergrowth of relic, extremely fine grained plagioclase (altered partly to quartz) intergrown with cryptocrystalline kaolinite, with patches up to 0.3 mm in size of turbid, semi-opaque cryptocrystalline clinozoisite(?), possibly with sericite, and lesser patches and wispy seams of sericite.

Magnetite (possibly including some pyrite; altered completely to pseudomorphic hematite) forms disseminated grains and clusters up to 0.5 mm in size of grains that were corroded and fractured moderately. A few magnetite/hematite patches contain grains of ilmenite (altered completely to leucoxene).

Pyrite forms disseminated anhedral grains.

Chalcopyrite forms disseminated patches up to 0.15 mm in size, mainly intergrown intimately with silicates.

A few veinlets from 0.05-0.15 mm wide are of ankerite with minor quartz along the margins of one. A few lensy veinlets up to 0.8 mm across are of medium grained calcite.

A veinlet 0.15-0.25 mm wide is of cherty quartz with disseminated, subhedral to euhedral rhombic grains of ankerite.

A veinlet up to 0.03 mm wide is of kaolinite with patches of chalcopyrite and of calcite and minor pyrite included in chalcopyrite.

Sample 11-01 159.7 **Altered Latite Flow(?)**
Replacement: K-feldspar-Pyrite-(Chlorite)

The host rock is a metamorphosed latite flow(?) that is dominated by extremely fine grained to cherty plagioclase with accessory patches of chlorite, disseminated cryptocrystalline clinozoisite(?), and minor disseminated pyrite and magnetite. Irregular replacement patches are of slightly coarser grained K-feldspar with disseminated patches of chlorite, of ankerite, of magnetite/hematite, of pyrite, and lesser disseminated patches of chalcopyrite.

mineral	**percentage**	**main grain size range**
plagioclase	50-55%	0.005-0.01
chlorite	4- 5	0.01-0.015
ankerite	2- 3	0.05-0.15
pyrite	1- 2	0.02-0.05
replacement		
K-feldspar	35-40	0.03-0.05
ankerite	3- 4	0.05-0.2
pyrite	2- 3	0.03-0.07 (a few up to 0.3 mm)
chlorite	1- 2	0.02-0.03
pyrite	1- 2	0.03-0.15
magnetite	1- 2	0.03-0.1
chalcopyrite	0.3	0.05-0.1
limonite	0.2	cryptocrystalline

Plagioclase forms aggregates of equant grains, some with a cherty texture. Intergrown with plagioclase is dusty clinozoisite(?)

Chlorite forms patchy intergrowths with plagioclase.

Ankerite forms disseminated subhedral to locally euhedral porphyroblasts.

Slightly coarser grained replacement patches up to a few mm across are dominated by K-feldspar with minor to abundant interstitial patches of chlorite. Their distribution is seen well in the stained offcut block. Ankerite forms disseminated anhedral to subhedral grains and is concentrated moderately to strongly in a few patches up to 1.5 mm in size.

Pyrite forms disseminated subhedral to euhedral grains and clusters of a few grains. A few of these contain irregular inclusions of chalcopyrite.

Magnetite forms disseminated anhedral grains, many of which were replaced by hematite. Hematite also forms tabular grains 0.02-0.03 mm long that are concentrated moderately in open clusters that are intergrown with silicates.

Chalcopyrite forms disseminated grains, commonly associated with magnetite; it is concentrated strongly in some replacement patches and rare in others. It also occurs ;locally as disseminated, extremely fine grains in a few patches of host-rock plagioclase

Limonite forms diffuse patches, probably in part from iron released by weathering of pyrite and to a lesser extent magnetite.

Sample 11-01 173 Ankerite-Sericite-(Magnetite/Hematite-Pyrite-Chalcopyrite)
Veins, Veinlets: Magnetite/Hematite-(Pyrite); Sericite-Calcite
Calcite-(Sericite-Pyrite)

The sample is dominated by an intimate intergrowth of cryptocrystalline to extremely fine grained ankerite and sericite/kaolinite, with abundant disseminated patches of magnetite (altered completely to hematite) and much less abundant pyrite. A few wispy veinlets are of magnetite/hematite and lesser pyrite. A few braided veins are of calcite with minor sericite along their margins and with associated lenses of pyrite in the adjacent wall rock. A few irregular discontinuous veinlets are of sericite with megacrysts of calcite. and minor pyrite.

mineral	**percentage**	**main grain size range**
ankerite	45-50%	0.003-0.015
sericite	40-45	0.002-0.005
magnetite/hematite	3- 4	0.05-0.1
pyrite	0.3	0.01-0.05
chalcopyrite	0.1	0.02-0.05
veins, veinlets		
1) magnetite/hematite-pyrite	0.3	0.02-0.05
2) calcite-(sericite)	5- 7	0.05-0.5
3) sericite-calcite	0.5	0.01-0.015 (se), 0.05-0.15 (ct)

Ankerite forms aggregates of equant grains that are intergrown with minor to abundant equant grains of sericite. Ankerite commonly is light orange in colour, probably from slightly oxidation to limonite. A few patches up to 1.5 mm in size contain ragged porphyroblasts of ankerite/calcite up to 0.15 mm in size intergrown with interstitial sericite; carbonate in these patches is colourless.

Locally sericite is concentrated moderately to strongly in diffuse subhedral patches up to 1.5 mm in size with some slightly coarser flakes; textures of the patches suggest that they may represent altered plagioclase phenocrysts.

Magnetite forms disseminated clusters of grains up to 0.5 mm in size Locally it is concentrated in wispy veinlets up to 0.1 mm wide that also contain minor pyrite.

Chalcopyrite forms disseminated patches and clusters of patches up to 0.1 mm in size, mainly away from magnetite and pyrite.

Braided veins up to 2 mm wide are dominated by calcite. Some of these contain lenses of host rock, some of which contain lenses of pyrite parallel to the main vein; it is uncertain whether pyrite is completely pre-calcite vein or some of it was introduced with the vein. One of the veins has a thin discontinuous selvage of sericite up to 0.05 mm wide along one side.

A few smaller more diffuse and irregular veinlets up to 0.3 mm wide are of extremely fine grained sericite with megacrysts (up to 0.2 mm in size) of calcite.

Sample 11-01 227.3 **Ankerite-Altered Latite/Dacite Flow**
Veinlets: Calcite

The sample consists of extremely fine grained plagioclase/quartz (possibly a dacite or latite flow) with much less abundant chlorite and ilmenite (altered completely to leucoxene); it was replaced strongly by ankerite with minor disseminated pyrite and minor patches of sericite. A few irregular veinlets are of calcite.

mineral	**percentage**	**main grain size range**	
plagioclase/quartz	30-35%	0.01-0.015	
chlorite/sericite	2- 3	0.03-0.05	
ilmenite/leucoxene	1- 2	0.1-0.3	
replacement			
ankerite	60-65	0.02-0.05	(locally up to 0.15 mm long)
pyrite	1	0.01-0.05	
chalcopyrite	trace	0.02-0.03	
veinlets			
1) calcite	1- 2	0.07-0.3	

Plagioclase/quartz forms aggregates of anhedral, equant grains. Locally it was replaced by patches of equant flakes of sericite.

Chlorite/sericite(?) forms disseminated ragged grains that range form colourless to pale green and range in birefringence from 0.005-0.015 (grey to first order yellow/orange). The mineral has parallel extinction and is length-slow.

Ilmenite (altered completely to leucoxene) forms disseminated irregular patches and lenses up to 0.3 mm long.

Ankerite forms a pervasive replacement of the host rock as equant anhedral grains and a few subhedral slightly elongate grains up to 0.15 mm long.

Pyrite forms disseminated subhedral to anhedral and locally euhedral grains. It is concentrated slightly to moderately in a few diffuse patches and bands, whose distribution is well seen in the scanned section.

Chalcopyrite forms disseminated equant grains in both the host rock and ankerite, and also forms a few disseminated grains (0.005-0.01 mm) enclosed in several patches of ilmenite/leucoxene. Chalcopyrite is concentrated moderately in one patch 0.6 mm across in which it is intergrown mainly with plagioclase/quartz and sericite.

Veinlets up to 0.8 mm wide are of calcite and minor flakes of chlorite.

Sample 11-01 253 K-feldspar-Ankerite-(Pyrite) Alteration
Veinlets: Pyrite; Calcite

The sample was altered very strongly to an intimate, patchy intergrowth of K-feldspar and ankerite with disseminated grains and patches of pyrite and minor ones of chalcopyrite. A veinlet is of pyrite. A few veinlets are of calcite.

mineral	**percentage**	**main grain size range**
K-feldspar	45-50%	0.01-0.05
ankerite	40-45	0.02-0.07
pyrite	2- 3	0.02-0.1
chalcopyrite	minor	0.02-0.04
ilmenite	minor	0.005-0.015
veinlets		
1) pyrite	1	0.02-0.07
2) calcite-(chlorite)	3- 4	0.05-0.2 (locally up to 1 mm)

K-feldspar forms aggregates of slightly interlocking equant grains. Some patches are clear, whereas, others contain abundant dusty semi-opaque (clinozoisite?); the latter may represent original plagioclase which had previously been altered partly to clinozoisite(?) which was not altered or only partially replaced by K-feldspar. A few patches up to 0.9 mm long may represent plagioclase phenocrysts that were replaced completely by K-feldspar grains that are nearly in optical continuity; margins of the phenocryst were destroyed, and oriented K-feldspar grains in the core of the grain grade outwards into unoriented equant K-feldspar grains at the margin.

Ankerite forms ragged, interlocking grains which also range from clear to turbid; the latter also probably represent original plagioclase aggregates altered to dusty clinozoisite(?), which was not completely replaced by ankerite.

Pyrite forms disseminated subhedral to euhedral grains and clusters of a few grains.

Chalcopyrite forms disseminated grains, in part alone and in part associated with pyrite.

Ilmenite forms disseminated ragged patches and grains, mainly less than 0.02 mm in size.

A veinlet up to 0.2 mm wide is of pyrite

A few veinlets including one up to 2 mm wide are of calcite.

Photographic Notes:

The scanned sections show the gross textural features of the sections; these features are seen much better on the digital image than on the printed image. For the photographs, sample numbers are shown in the upper left corner, photo numbers are shown in the lower left corner, and the letter in the lower right corner indicates the lighting conditions: P = plane light, X = plane light in crossed nicols; R = reflected light, RP = reflected light and plane incident light; ~RX = reflected light in moderately crossed nicols and incident light in crossed nicols. Locations of photographs are shown on the scanned sections.

List of Photographs

(page 1 of 2)

Photo	Section	Description
01	11-01 142.5	cluster of plagioclase phenocrysts (?, altered completely to aggregate of quartz and possibly minor plagioclase); enclosed in a groundmass of plagioclase (altered strongly to kaolinite and lesser sericite, with irregular patches of ankerite-clinozoisite(?) and clinozoisite (?), and disseminated clusters of magnetite (altered completely to hematite) with minor grains of pyrite and a small patch of chalcopyrite.
02	11-01 142.5	relics of very fine grained equant plagioclase in a strongly altered matrix of kaolinite and clinozoisite(?) with much less abundant sericite and disseminated patches of pyrite; two veinlets of ankerite cut by later veinlet of cherty quartz with disseminated grains of ankerite.
03	11-01 142.5	ragged patch of slightly coarser grained secondary plagioclase enclosed in cryptocrystalline groundmass of plagioclase-kaolinite with patches of magnetite (altered completely to hematite) and a clusters of magnetite/hematite with a patch of ilmenite (altered completely to leucoxene); veinlet of kaolinite-calcite with minor chalcopyrite and trace pyrite and a larger lens of calcite.
04	11-01 159.7	to the left: mainly extremely fine grained cherty plagioclase with minor pyrite and with small replacement patches of K-feldspar-chlorite-ankerite; to the right: replacement zone of K-feldspar with much less abundant pyrite and ankerite, and with minor chlorite and disseminated extremely fine grained magnetite.
05	11-01 159.7	to the left: mainly extremely fine grained plagioclase (altered slightly to moderately to dusty clinozoisite?) with smaller patches of ankerite, magnetite (altered in part to hematite) and chlorite; to the right: replacement patch dominated by ankerite with lesser patches of K-feldspar and pyrite, and minor chlorite and magnetite/hematite; a few relic patches of plagioclase/ (clinozoisite?).
06	11-01 159.7	to the left: replacement zone dominated by K-feldspar with disseminated patches of pyrite-magnetite (altered partly to hematite) and chalcopyrite; to the right: extremely fine grained host rock: plagioclase with accessory patches of ankerite and of chlorite.

List of Photographs

Photo	Section	Description
07	11-01 173	patchy aggregate of sericite-ankerite with veinlike zones of magnetite-(pyrite) and disseminated magnetite, pyrite, and chalcopyrite. (Note: some dark non-reflective patches represent ankerite [and lesser sericite] containing opaque minerals [mainly magnetite/hematite] that are not on the surface of the section but render the zones semi-opaque.)
08	11-01 173	intimate intergrowth of ankerite and sericite with patches of magnetite/ hematite and lesser pyrite; wispy veinlet of pyrite; diffuse irregular veinlet of slightly coarser grained sericite with megacrysts of calcite.
09	11-01 173	intimate intergrowth of sericite and ankerite with disseminated patches of magnetite/hematite and minor ones of pyrite and of chalcopyrite; braided vein of calcite with subparallel veinlets and lenses of pyrite and a wispy parallel veinlet of calcite.
10	11-01 227.3	extremely fine grained intergrowth of plagioclase/quartz with scattered ragged flakes of chlorite/sericite and disseminated patches of ilmenite (altered completely to leucoxene); replaced strongly and pervasively by ankerite with one grain of pyrite.
11	11-01 227.3	to the left: calcite veinlet; to the right: strongly altered host rock with relic(?) patches of chlorite/sericite and a few patches of ilmenite (altered completely to ilmenite) in a groundmass of ankerite with very finely disseminated pyrite.
12	11-01 227.3	diffuse patchy intergrowth of plagioclase/quartz with lesser ankerite, and minor sericite, with abundant disseminated pyrite, and in the centre of the photo, moderately abundant disseminated chalcopyrite.
13	11-01 253	possible relic plagioclase phenocrysts (replaced completely by K-feldspar and texture partly destroyed) in a groundmass of equant K-feldspar with patches of ankerite and disseminated grains of pyrite; veinlet of calcite.
14	11-01 253	patchy intergrowth of K-feldspar (mainly with relic dusty clinozoisite(?) and ankerite, locally with dusty relic clinozoisite(?), and disseminated clusters of pyrite.
15	11-01 253	host rock showing patchy alteration to K-feldspar and to ankerite; disseminated pyrite and lesser chalcopyrite, mainly with ankerite-rich patches, minor dusty ilmenite; veinlet of calcite.

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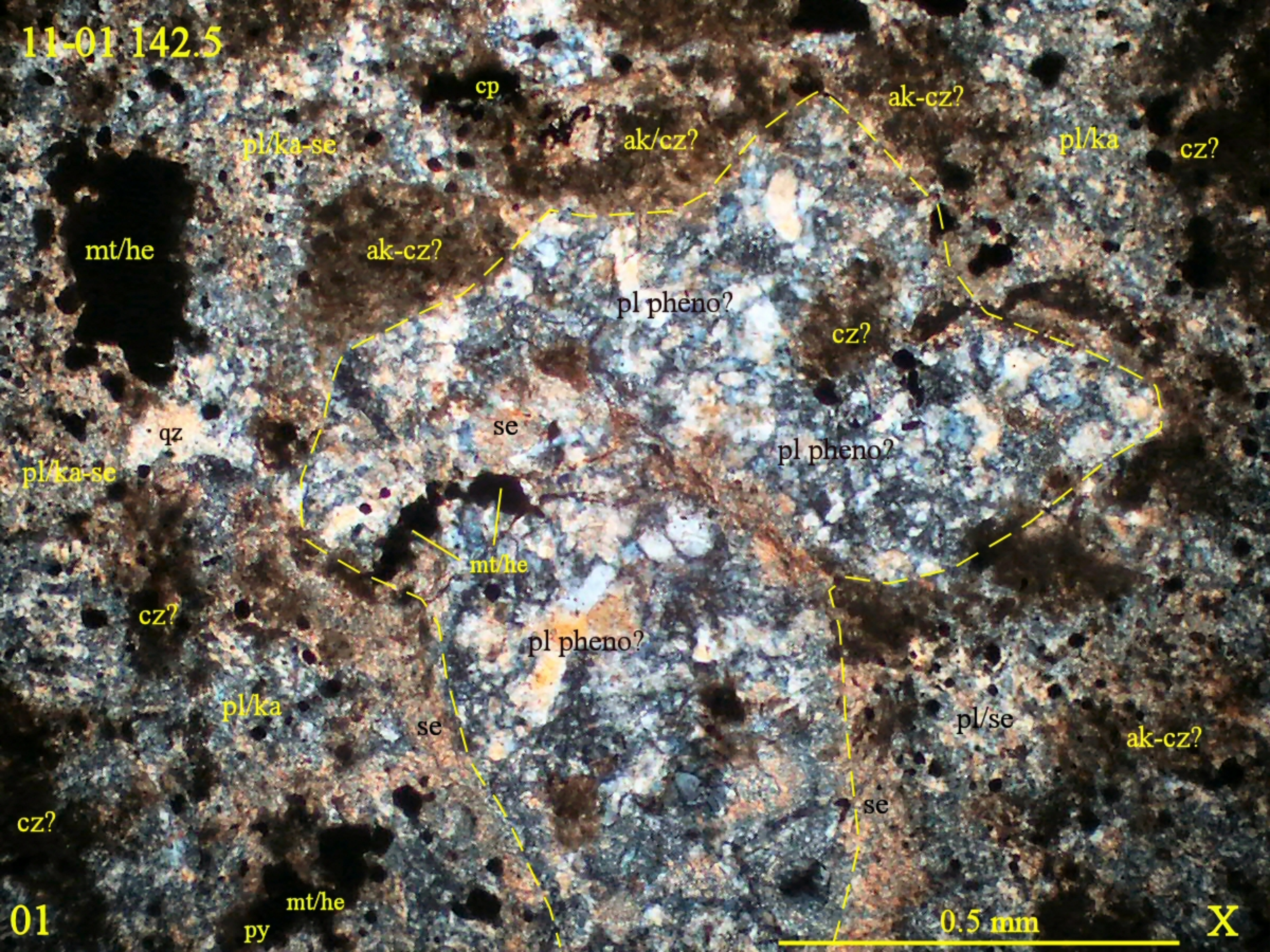
email: jppayne@telus.net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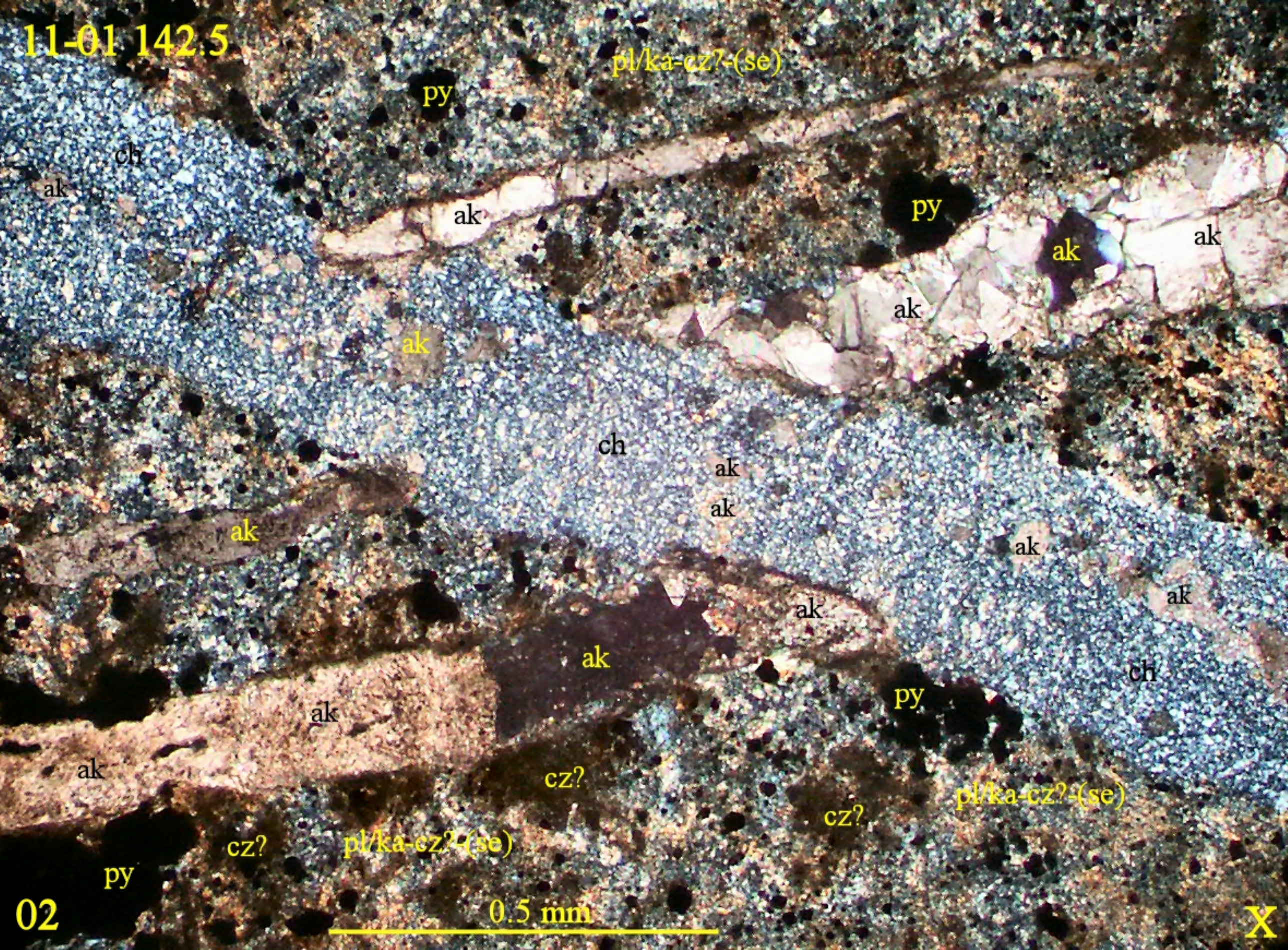
ak-cz?
pl/ka-se
ak/cz?
pl/ka
cz?
mt/he
ak-cz?
pl pheno?
cz?
qz
se
pl pheno?
pl/ka-se
mt/he
cz?
pl pheno?
pl/ka
se
pl/se
ak-cz?
se
cz?
mt/he
py
01
0.5 mm
X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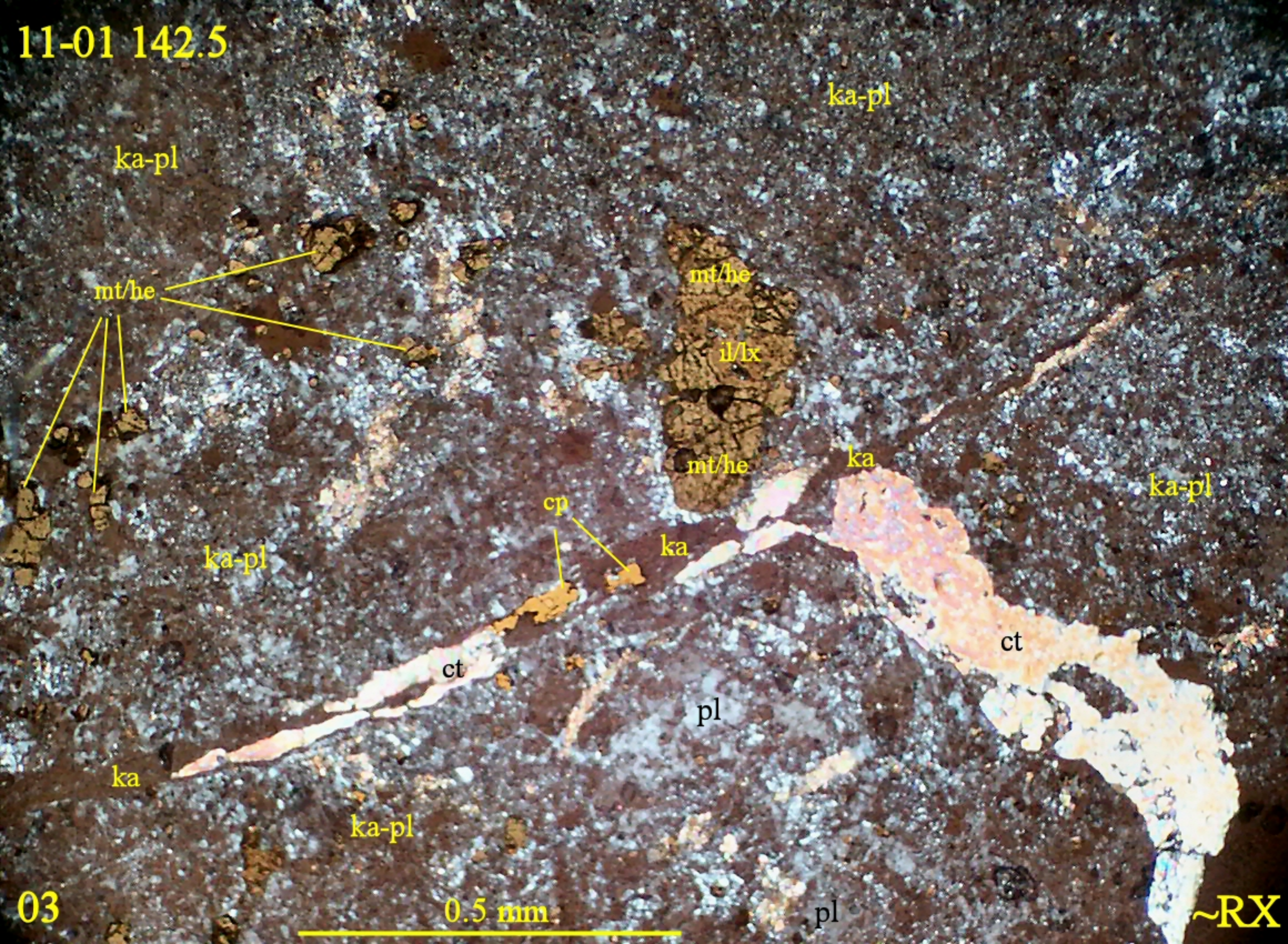
ak
py
ak
ak
ak
ak
ch
ak
ak
ak
ak
ak
ak
ch
ak
ak
ak
py
ak
cz?
pl/ka-cz?-(se)
cz?
cz?
pl/ka-cz?-(se)
py
02
0.5 mm
X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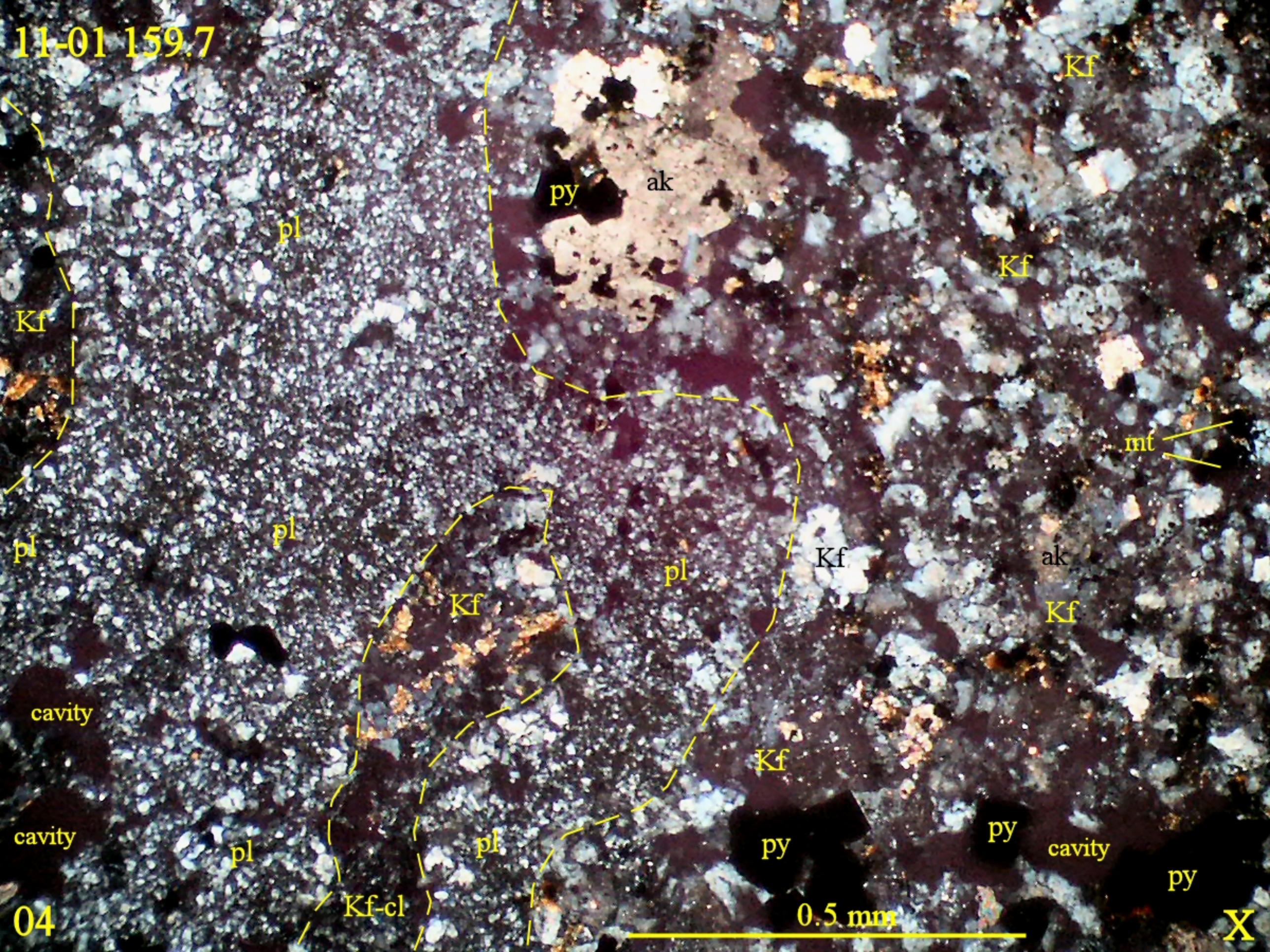
ka-pl
ka-pl
mt/he
mt/he
il/lx
mt/he
ka
ka-pl
cp
ka
ka-pl
ct
ct
pl
ka
ka-pl
03
0.5 mm
pl
~RX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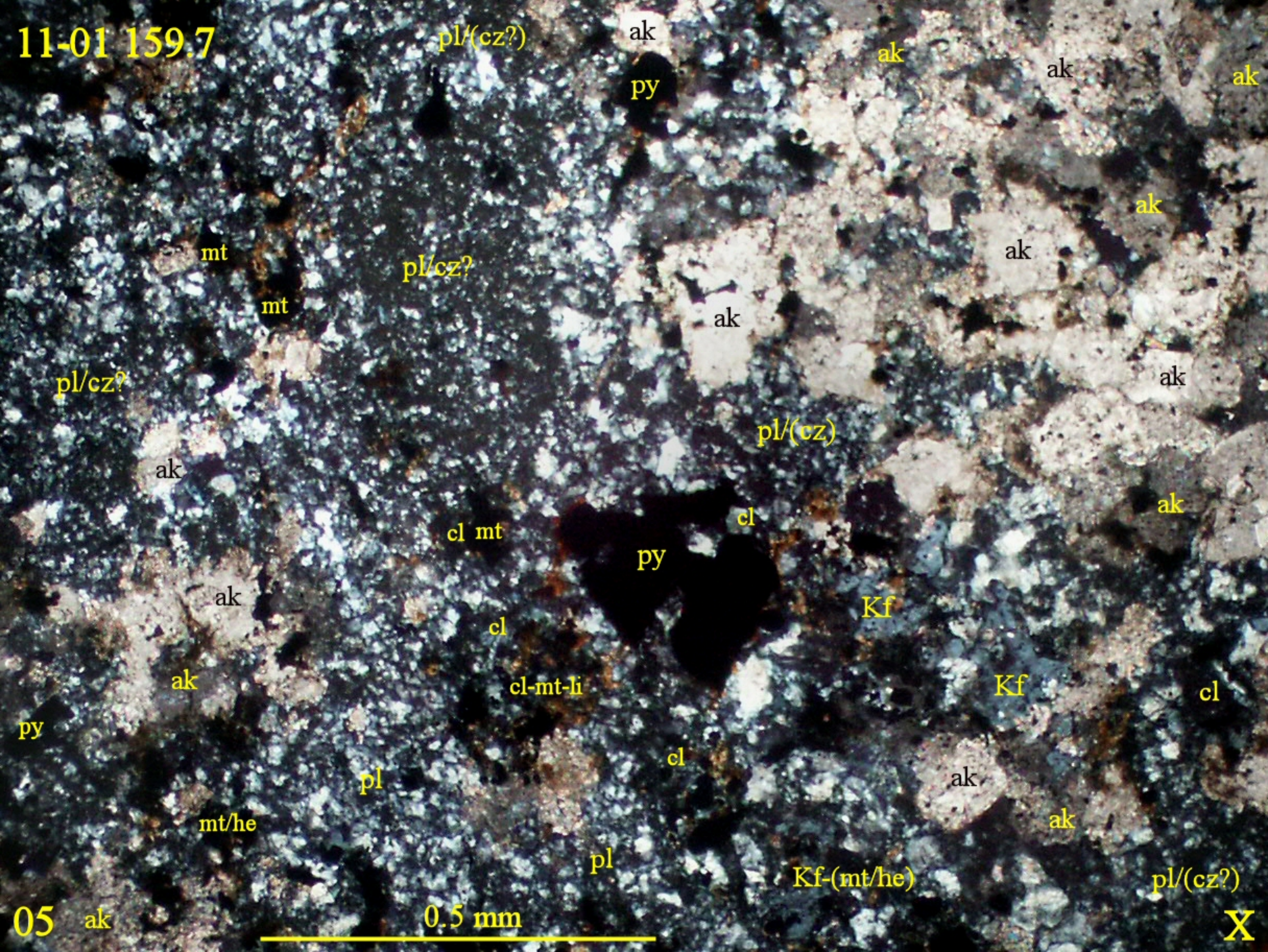
Kf
py
ak
pl
Kf
Kf
mt
pl
pl
Kf
pl
Kf
ak
Kf
cavity
Kf
cavity
pl
pl
py
py
cavity
py
Kf-cl
0.5 mm
04
X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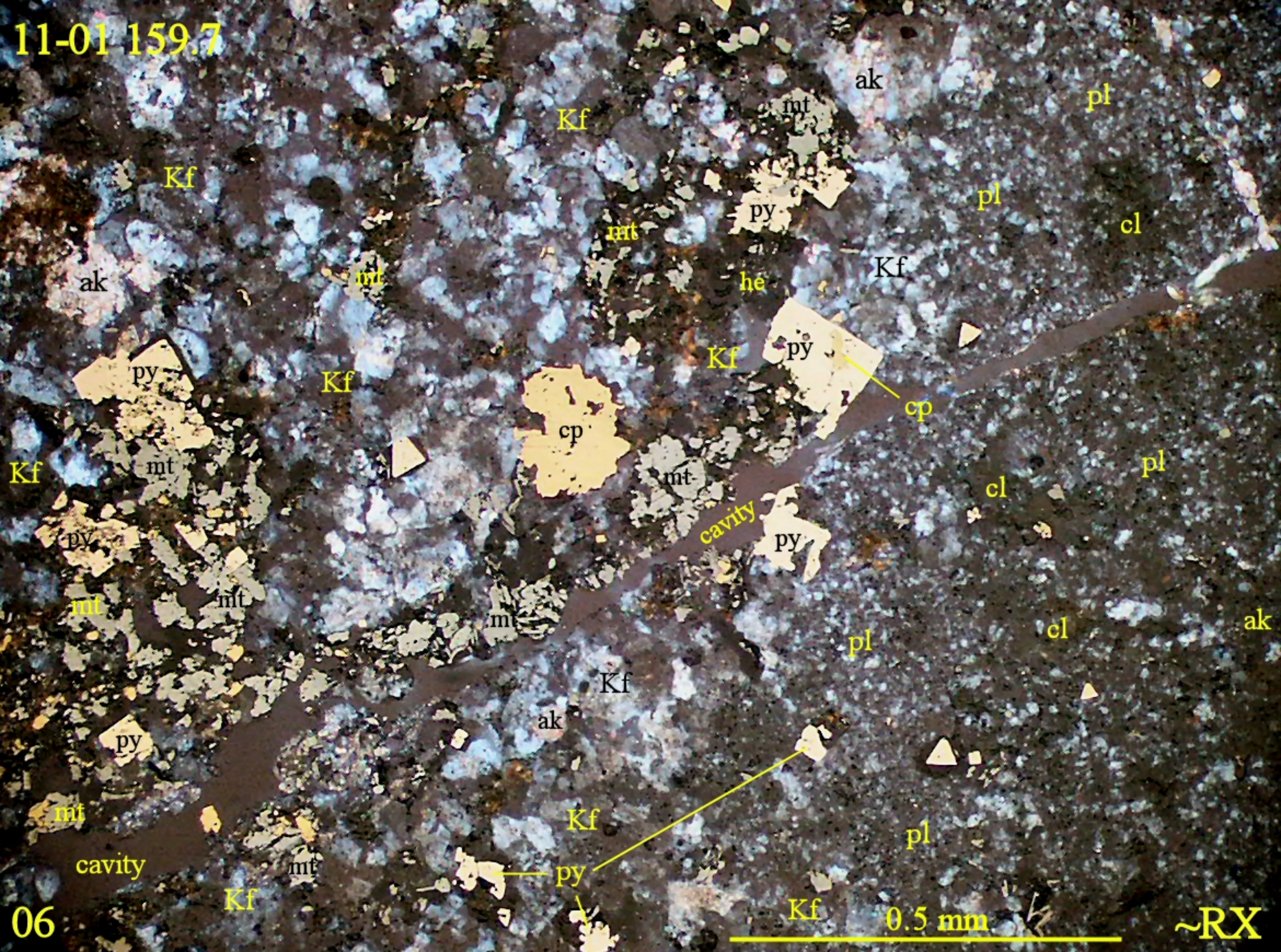
py
ak
ak
ak
ak
mt
pl/cz?
mt
ak
ak
pl/cz?
ak
pl/(cz)
ak
ak
cl
cl mt
py
ak
Kf
ak
cl
cl-mt-li
Kf
cl
py
cl
pl
ak
ak
mt/he
pl
Kf-(mt/he)
pl/(cz?)
05
ak
0.5 mm
X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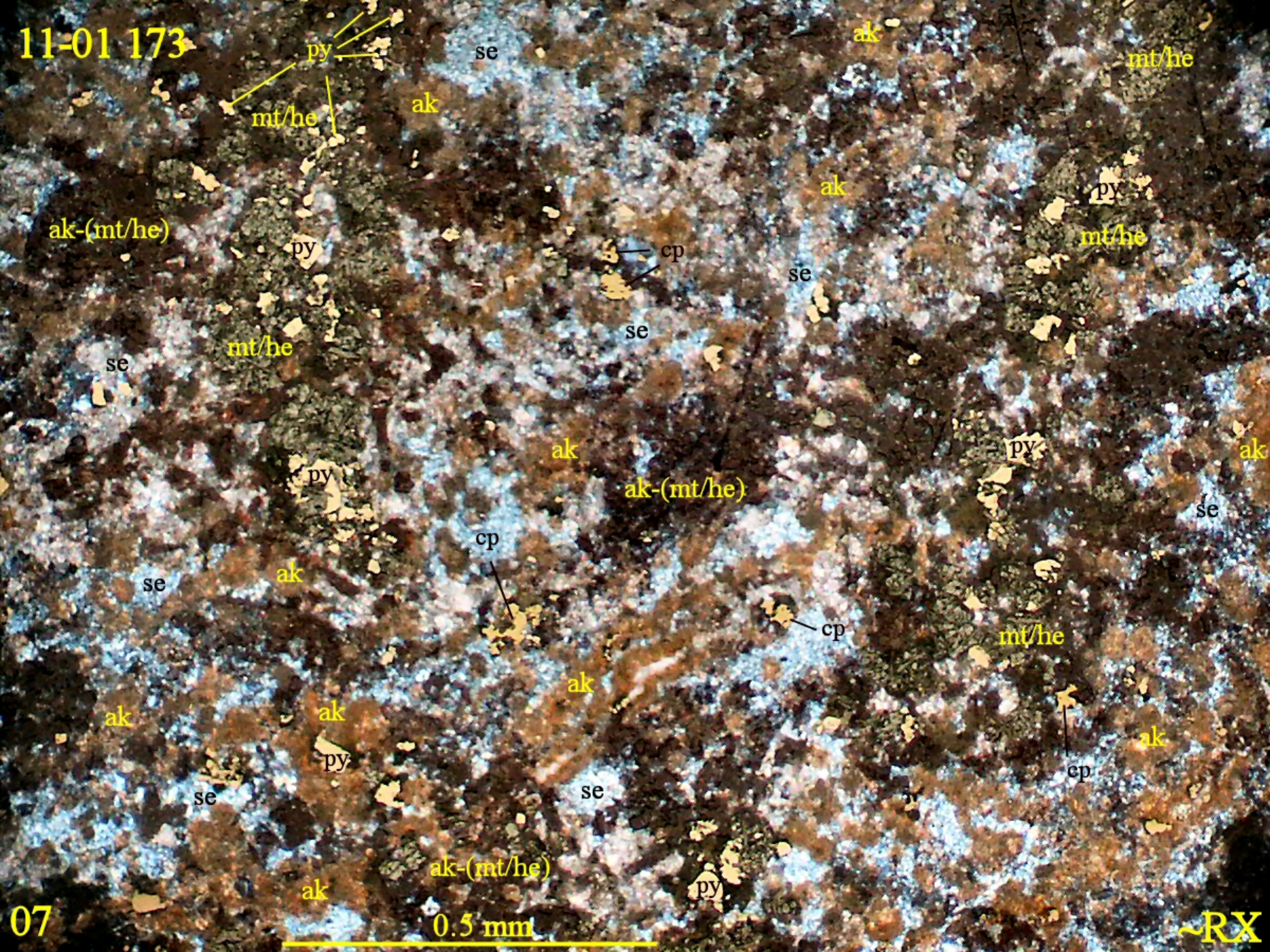
ak
pl
mt
Kf
Kf
pl
py
cl
mt
Kf
ak
mt
he
Kf
py
Kf
cp
Kf
mt
cp
pl
mt
cl
cavity
py
py
mt
mt
mt
cl
ak
mt
pl
Kf
ak
py
mt
Kf
pl
cavity
mt
py
Kf
Kf
0.5 mm
06
~RX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py
se
ak
mt/he
ak
mt/he
ak
py
ak-(mt/he)
py
cp
se
mt/he
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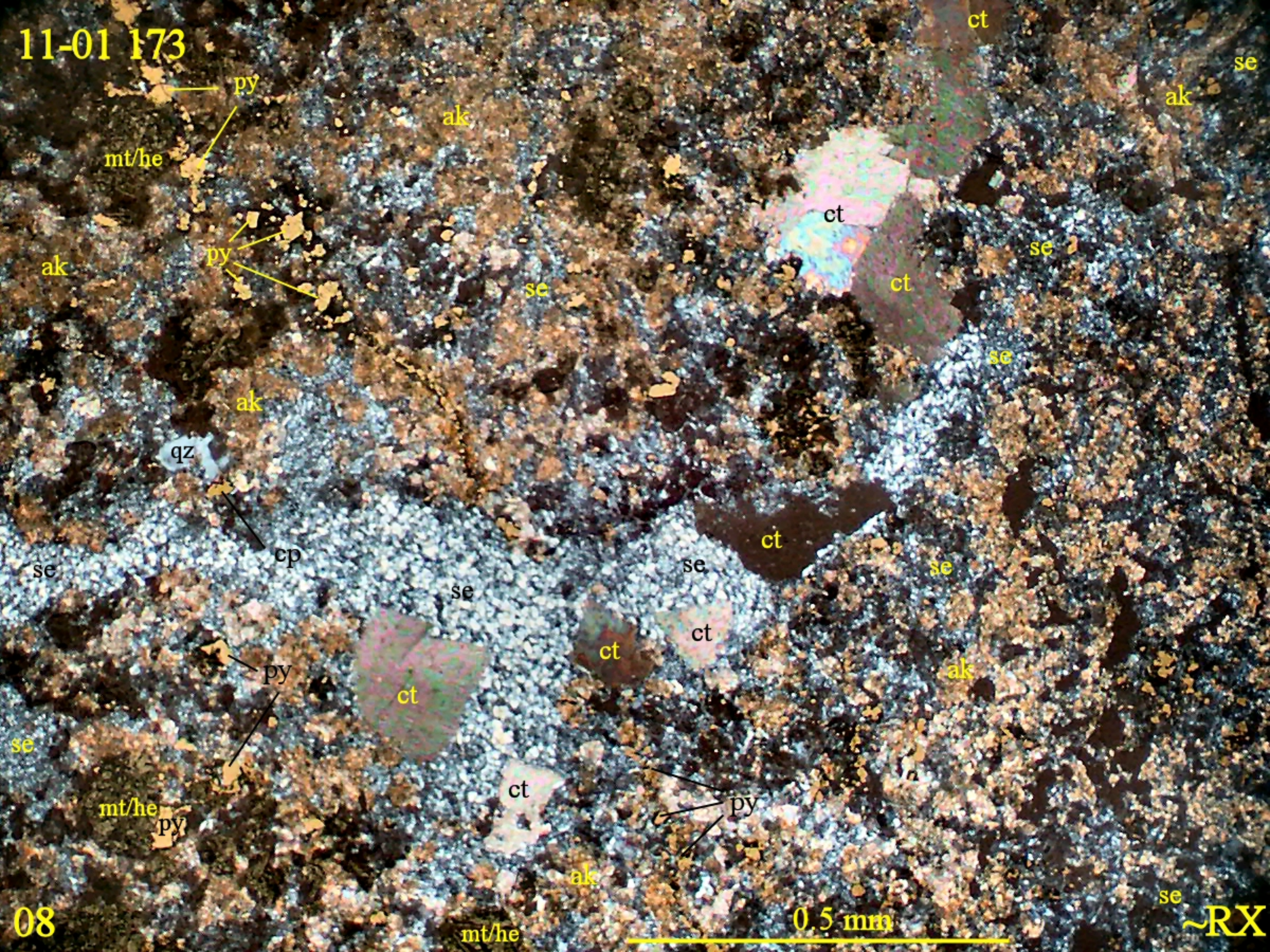
se
mt/he
se
ak
ak-(mt/he)
py
py
ak
se
cp
ak
se
cp
mt/he
ak
ak
ak
py
se
cp
ak
se
ak-(mt/he)
ak
py
07
0.5 mm
~RX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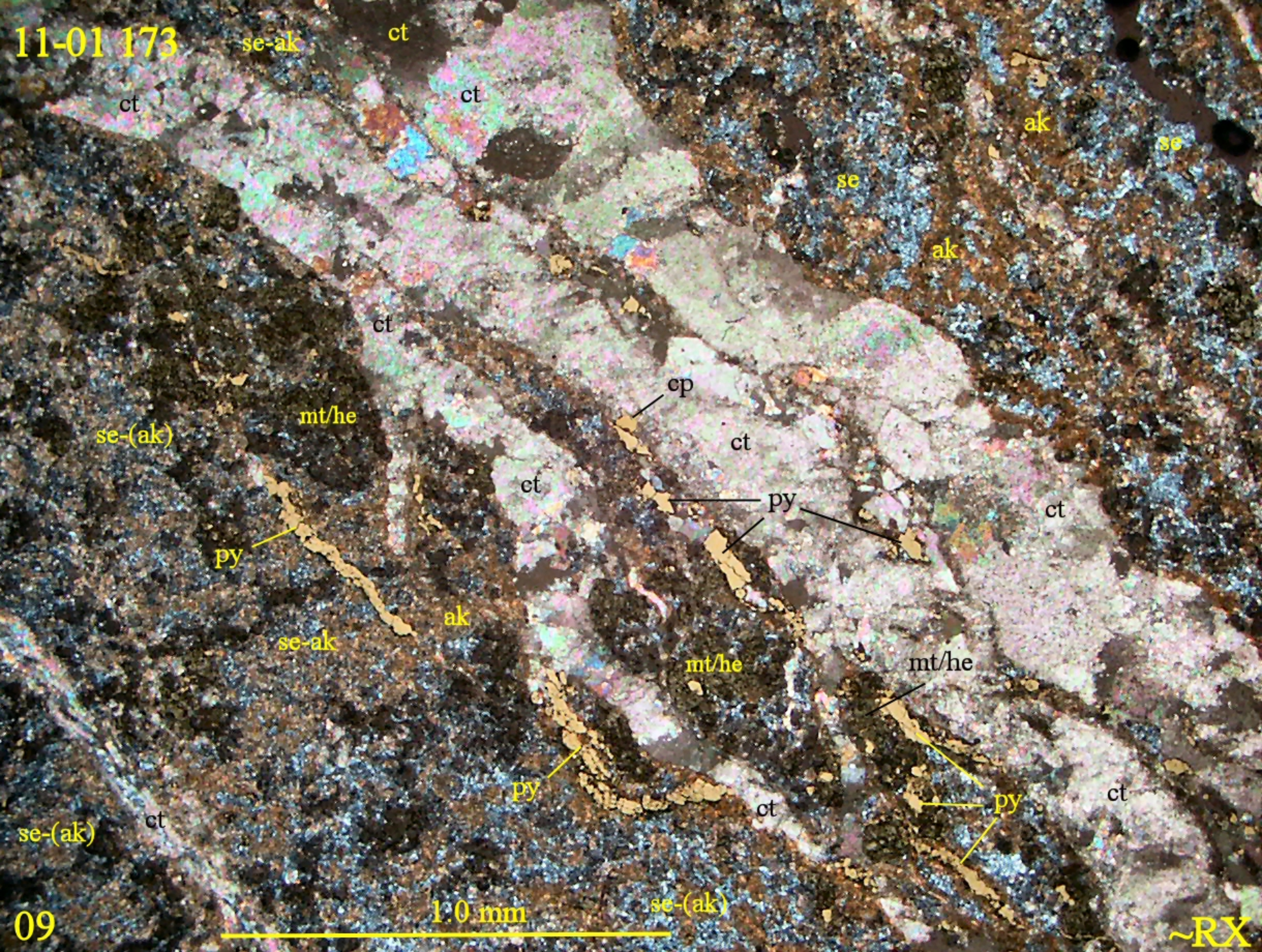
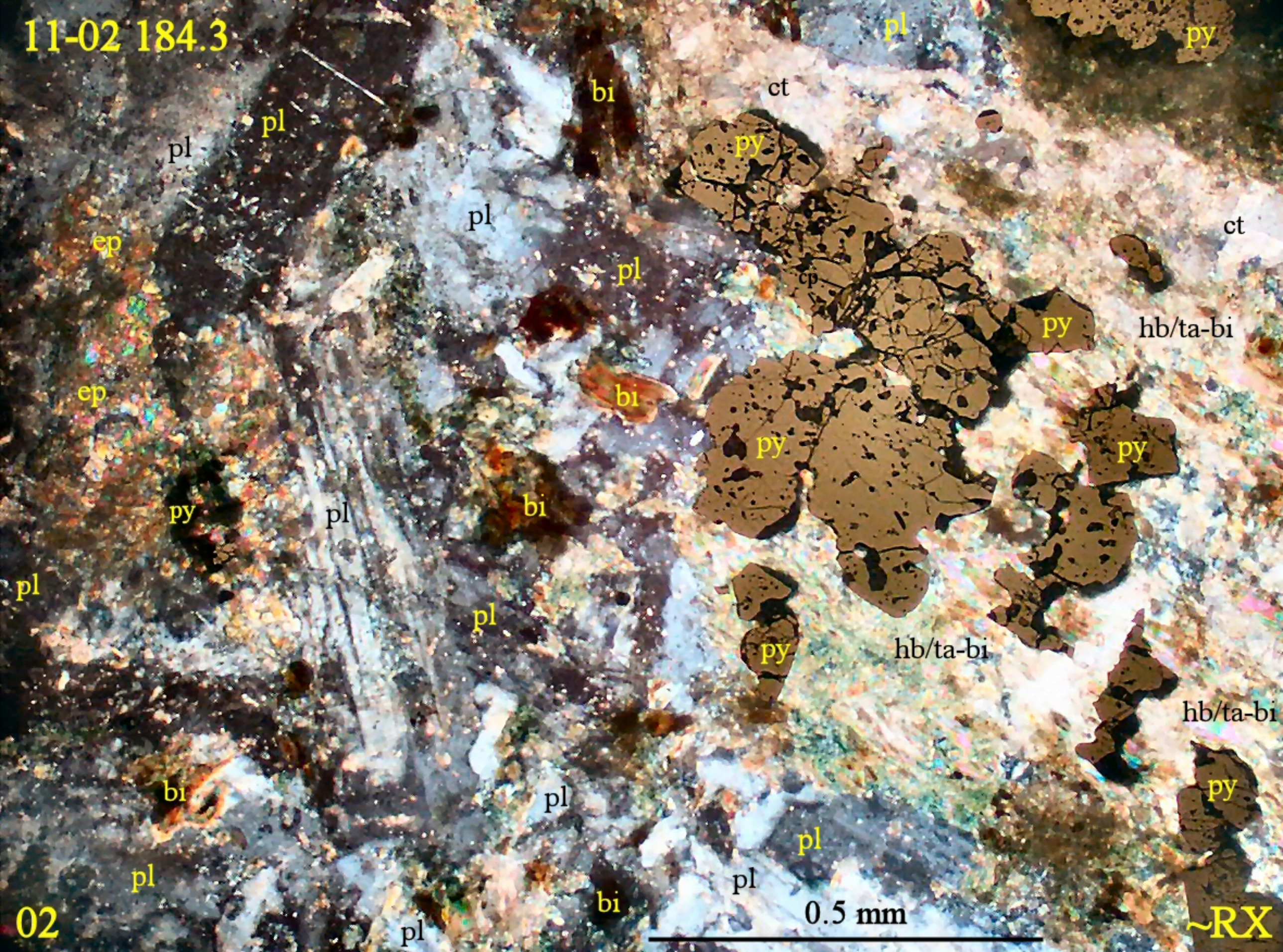
py
mt/he
ak
ct
se
ak
ct
se
py
ak
se
ct
se
ak
qz
cp
ct
se
se
se
ct
ct
ct
py
se
ak
mt/he
py
ct
py
ak
se
08
mt/he
0.5 mm
~RX


11-01 173
se-ak
ct
ct
ct
ct
ak
se
se
ak
ct
cp
mt/he
se-(ak)
ct
ct
py
ct
py
ak
se-ak
mt/he
mt/he
py
py
ct
ct
se-(ak)
se-(ak)
1.0 mm
09
~RX

11-02 184.3
ct
pl
ep
cp
pl
hb/ta
ct
pl
ep
pl
pl/(ep)
py
py
hb/ta-bi
ep
ct
pl
ct-se-cl
ep
ct
pl/(se)
pl
01
0,5 mm
ep
X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pl
pl
pl
ep
ep
py
pl
bi
pl
pl
bi
pl
bi
pl
pl
bi
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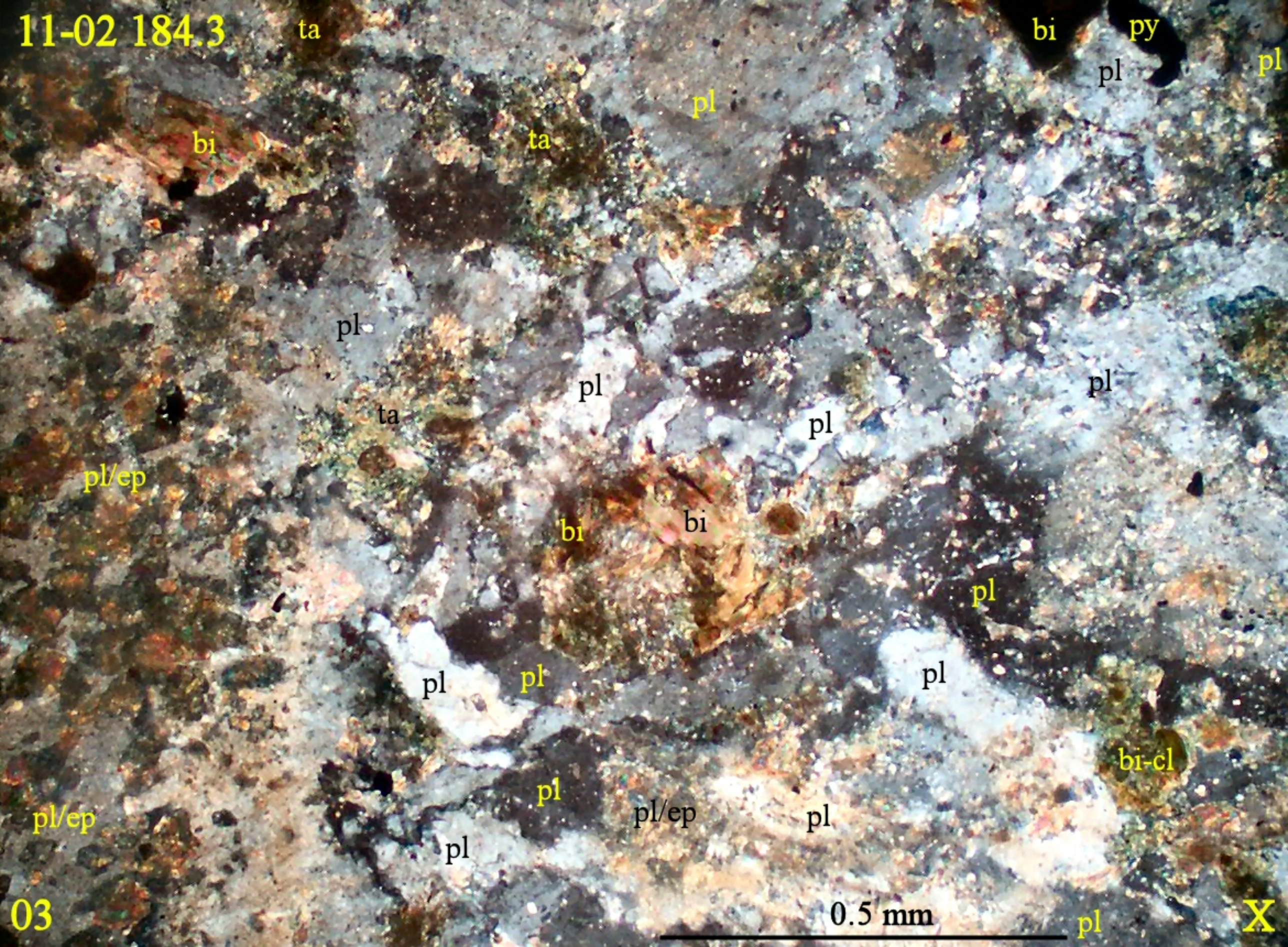
pl
bi
pl
pl
ct
py
cp
pl
py
py
py
hb/ta-bi
hb/ta-bi
hb/ta-bi
ct
py
pl
pl
0.5 mm
02
~RX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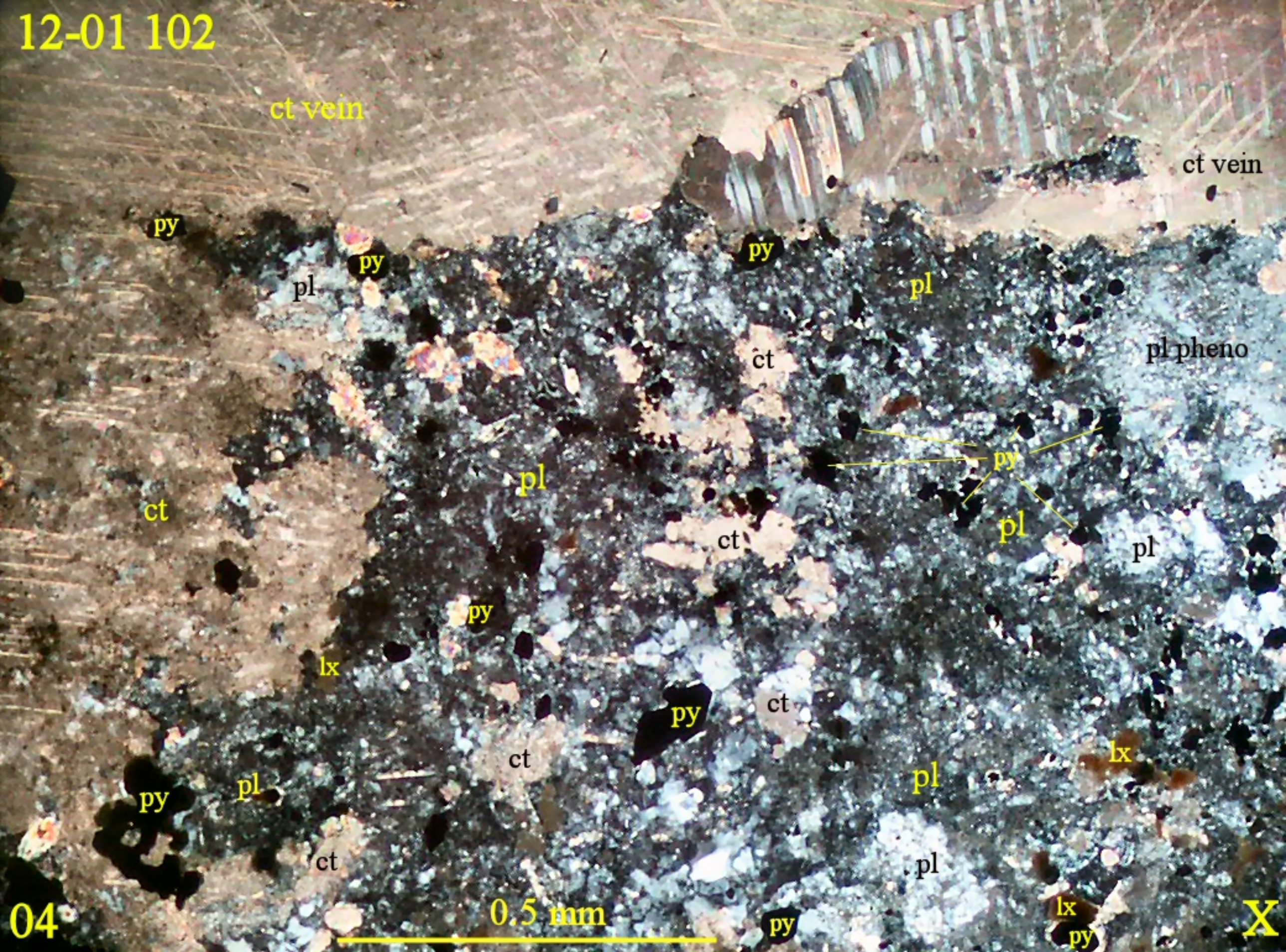
ta
bi
py
pl
pl
ta
bi
pl
pl
ta
pl
pl
pl
pl/ep
bi
bi
pl
pl
pl
pl
pl
pl/ep
pl
pl/ep
pl
bi-cl
pl
03
0.5 mm
X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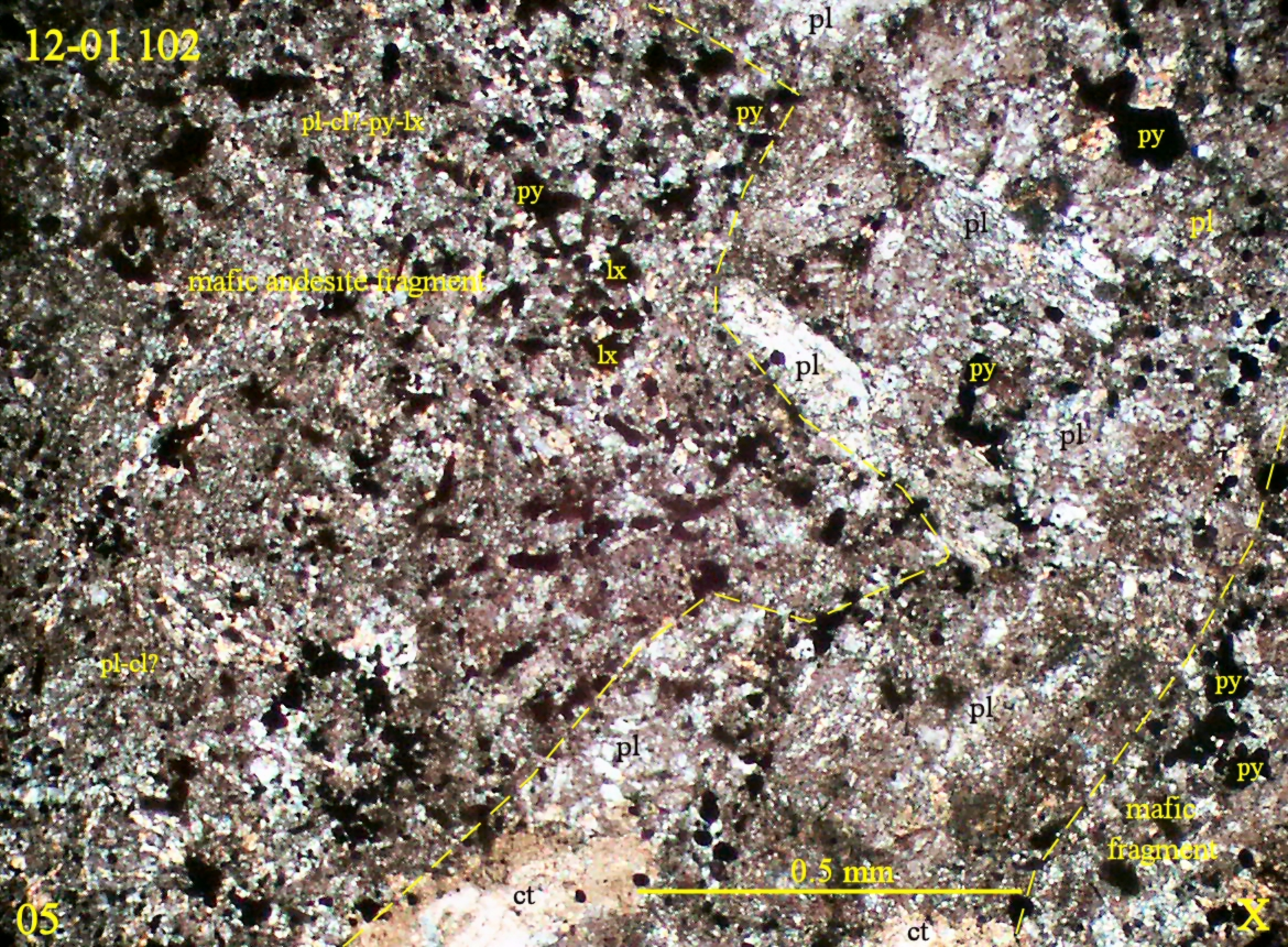
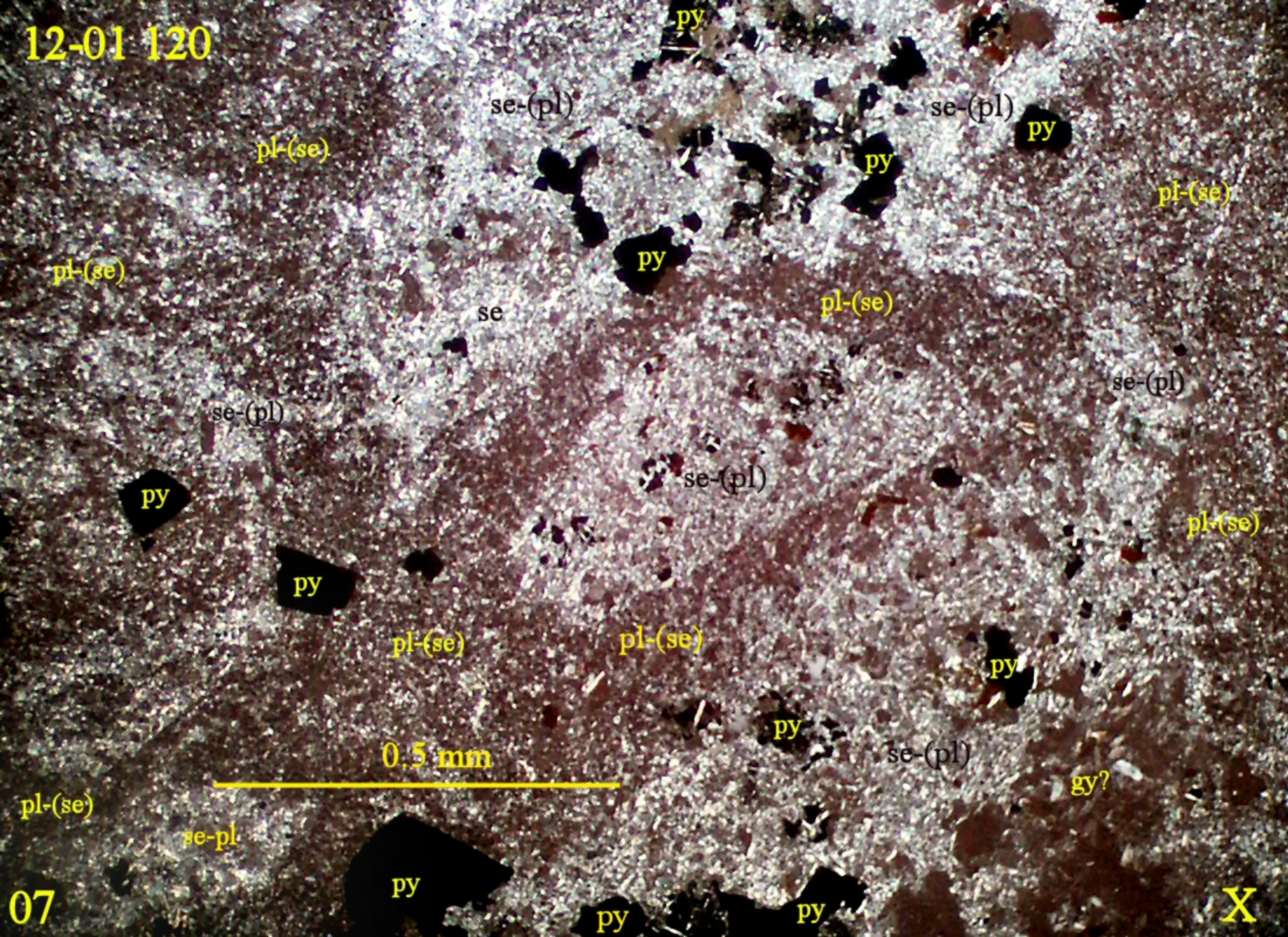
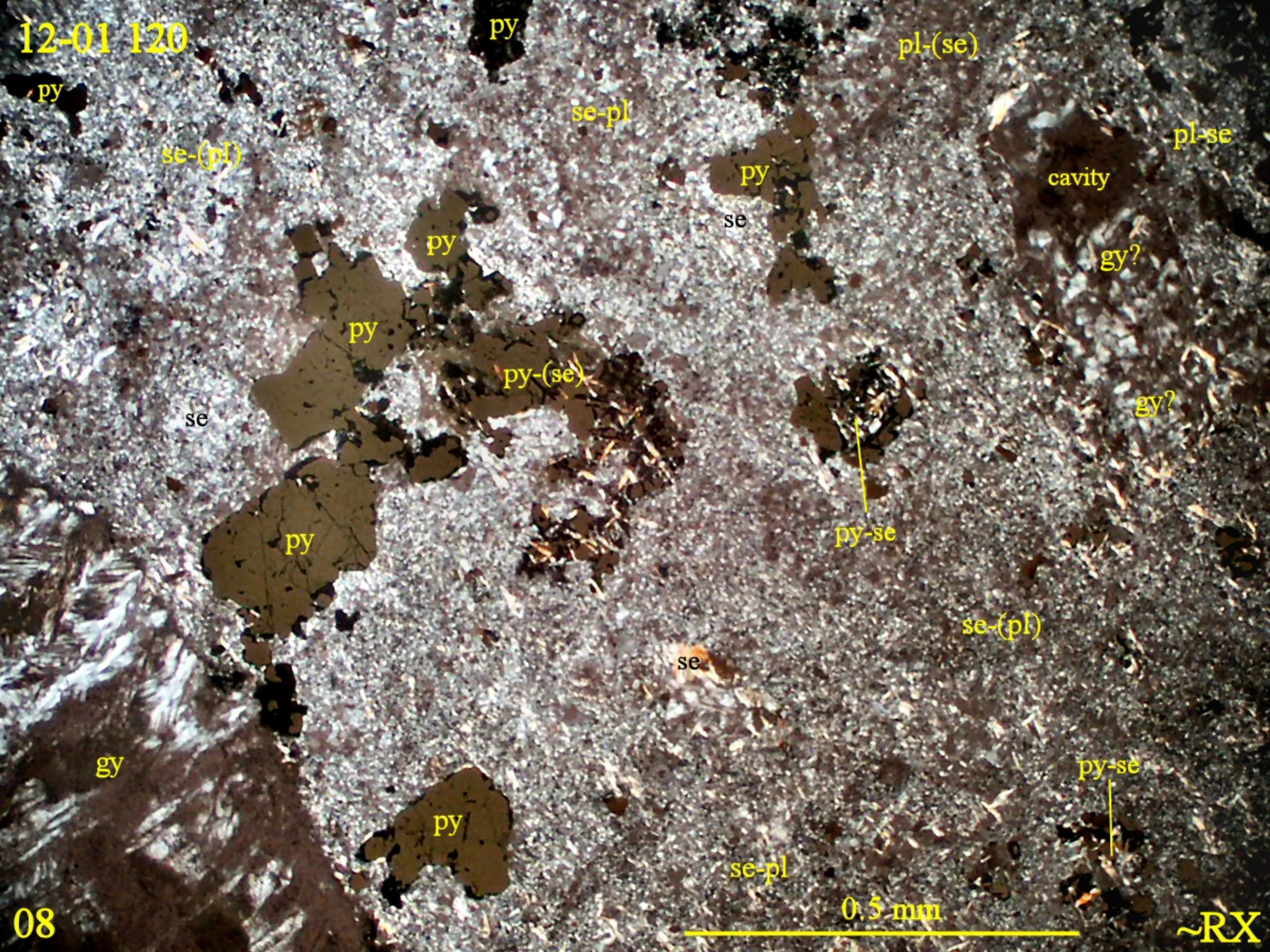
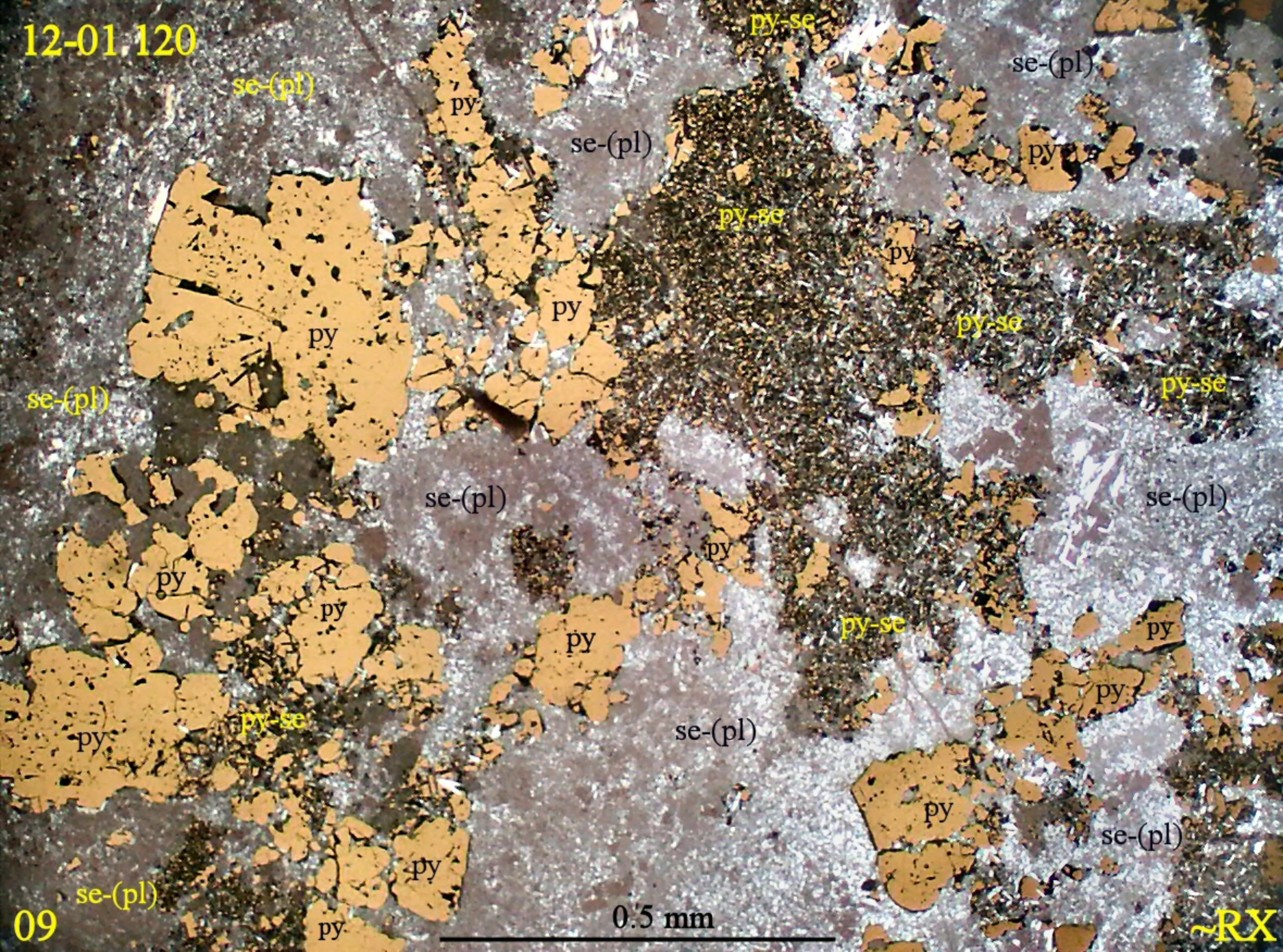
ct vein
ct vein
py
py
pl
py
pl
ct
pl pheno
py
pl
ct
pl
pl
ct
py
lx
py
ct
ct
lx
pl
py
pl
ct
pl
lx
py
04
0.5 mm
X

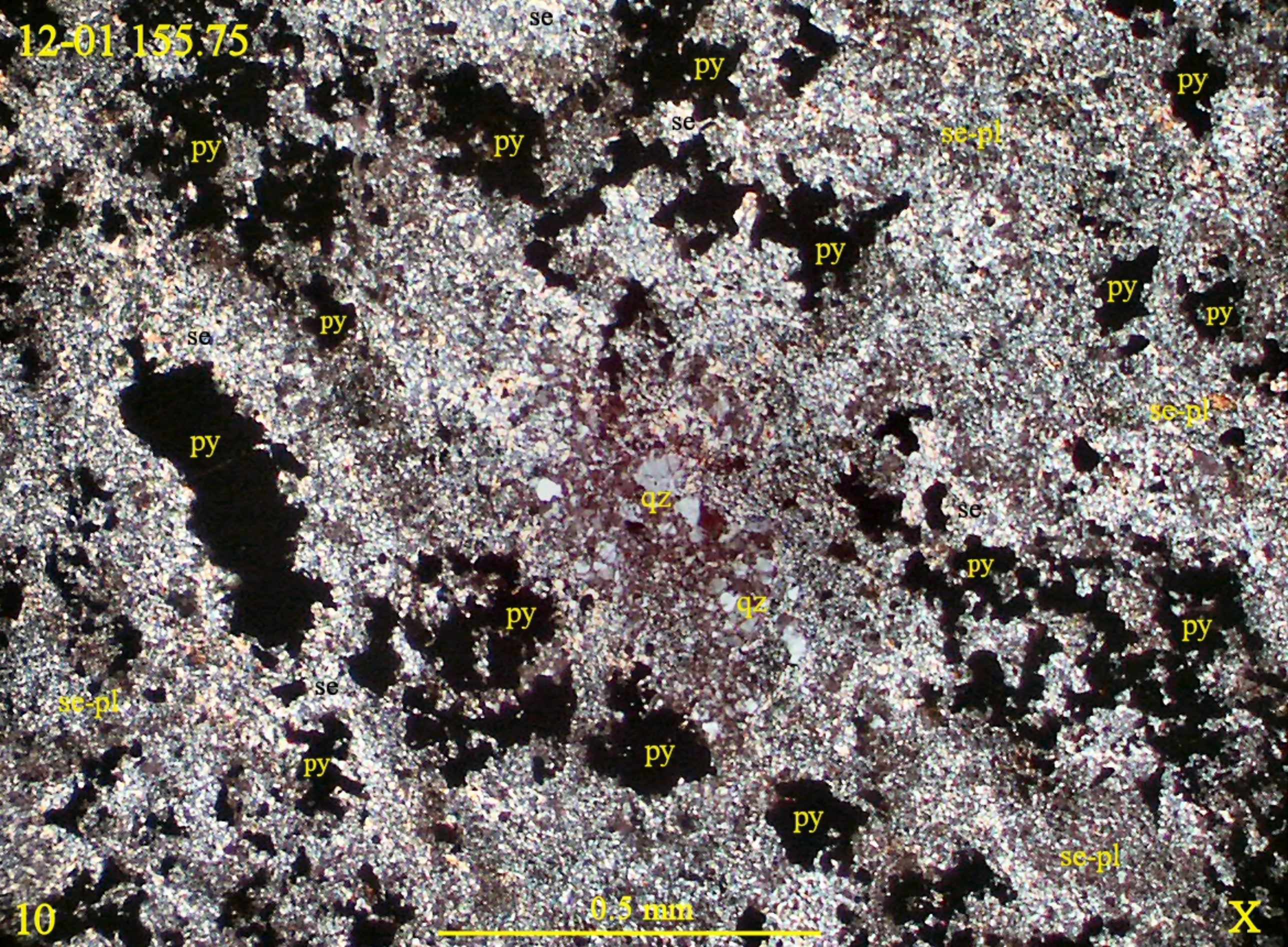

12-01 102
pl
pl-cl?-py-lx
py
py
py
pl
pl
mafic andesite fragment
lx
lx
pl
py
pl
pl-cl?
pl
pl
py
py
mafic
fragment
0.5 mm
ct
ct
05
X

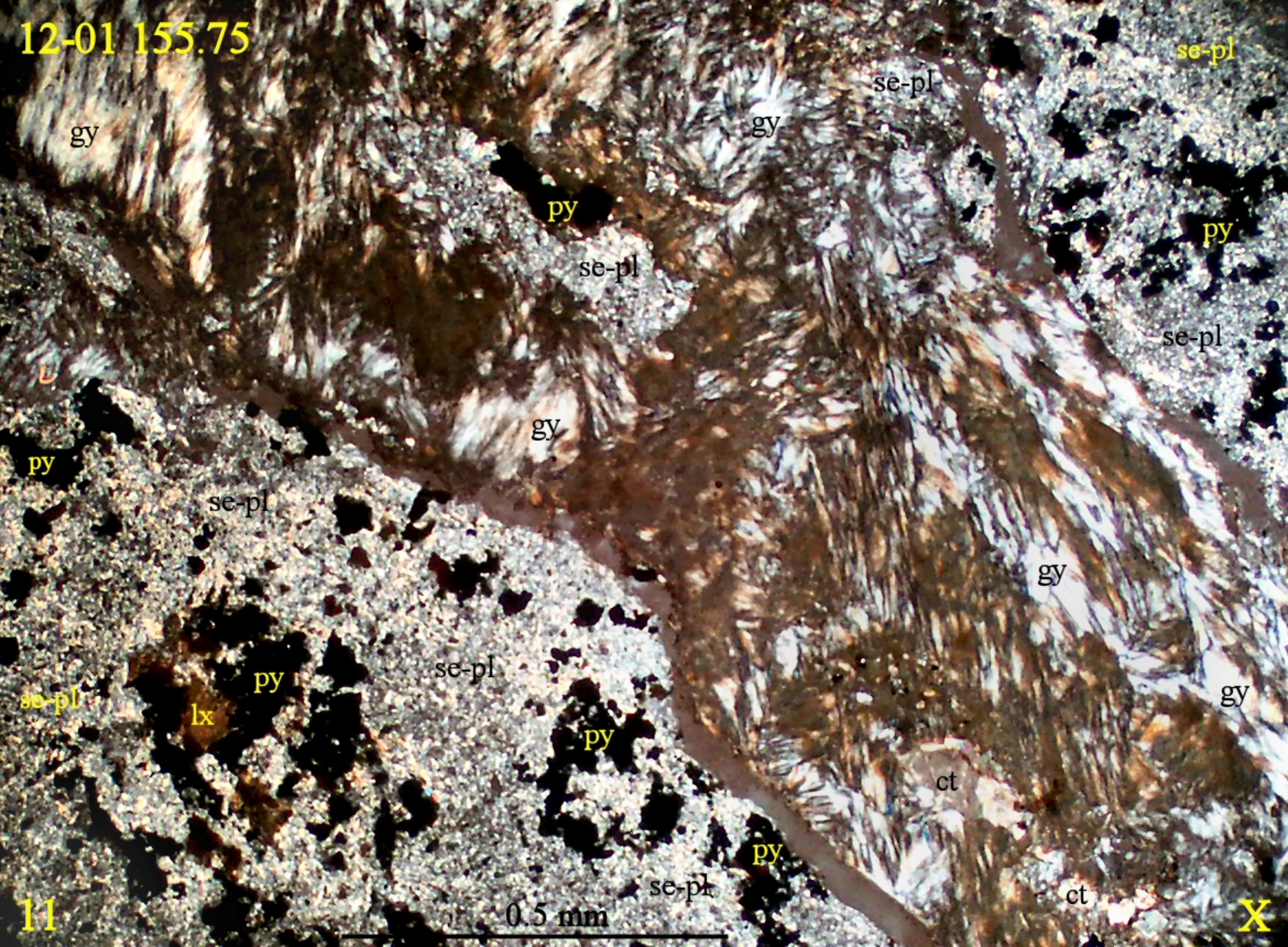
12-01 102
gy?
gy?
gy?
pl
pl
py
py
py
ct
ct
gy?
pl
ct
pl
gy?
ct
ct
gy?
ct
py
pl
py
pl
py
ct
ct
gy?
gy?
ct
gy?
ct
pl
0.5 mm
06
~RX

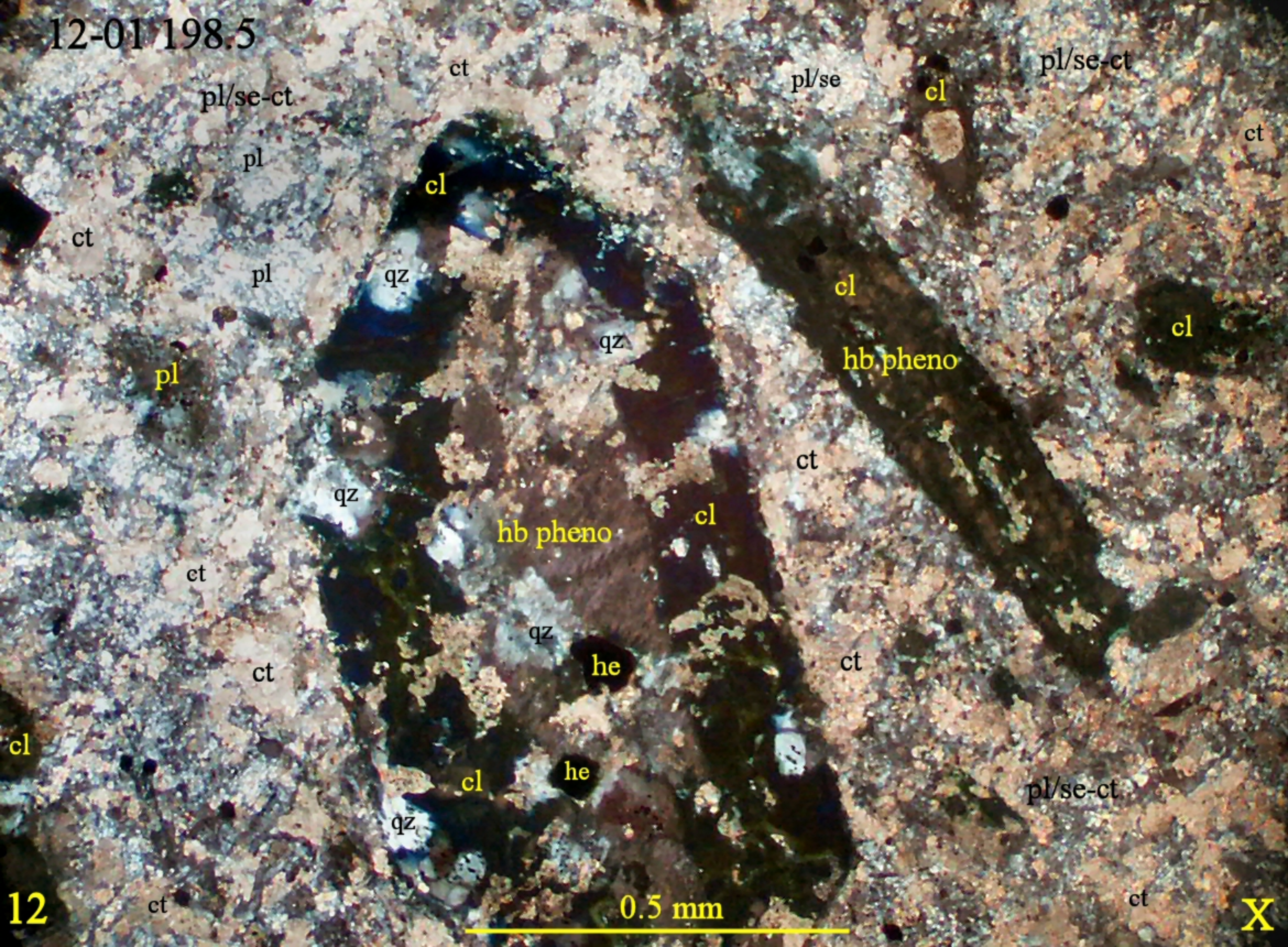

12-01 120
py
se-(pl)
se-(pl)
py
pl-(se)
py
pl-(se)
pl-(se)
py
pl-(se)
se
se-(pl)
se-(pl)
se-(pl)
py
pl-(se)
py
pl-(se)
pl-(se)
py
py
0.5 mm
se-(pl)
gy?
pl-(se)
se-pl
py
py
py
07
X

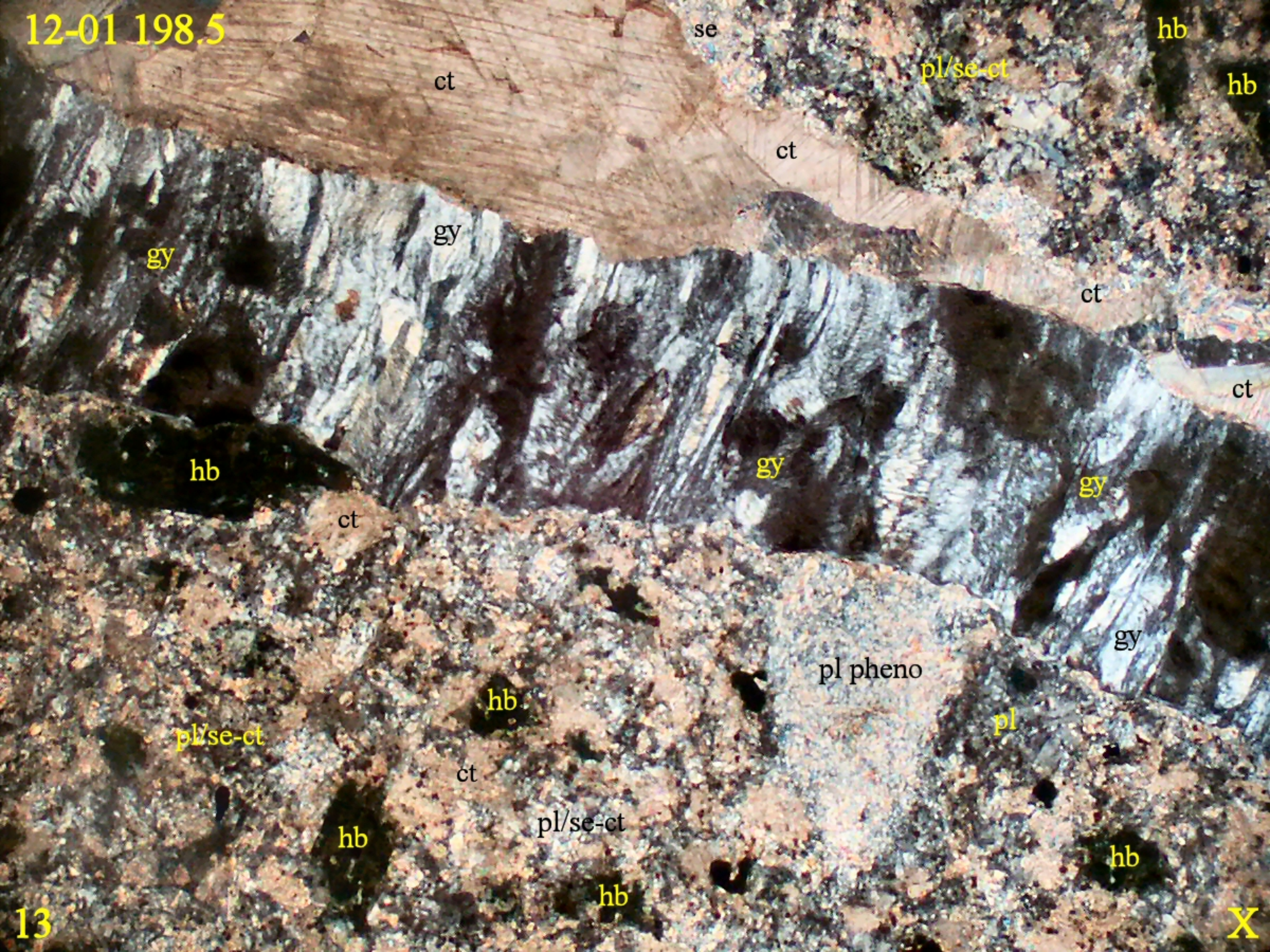

12-01 120
py
py
pl-(se)
se-pl
se-(pl)
pl-se
cavity
py
se
py
gy?
py
py-(se)
se
gy?
py-se
py
se-(pl)
se
gy
py-se
py
se-pl
0.5 mm
08
~RX

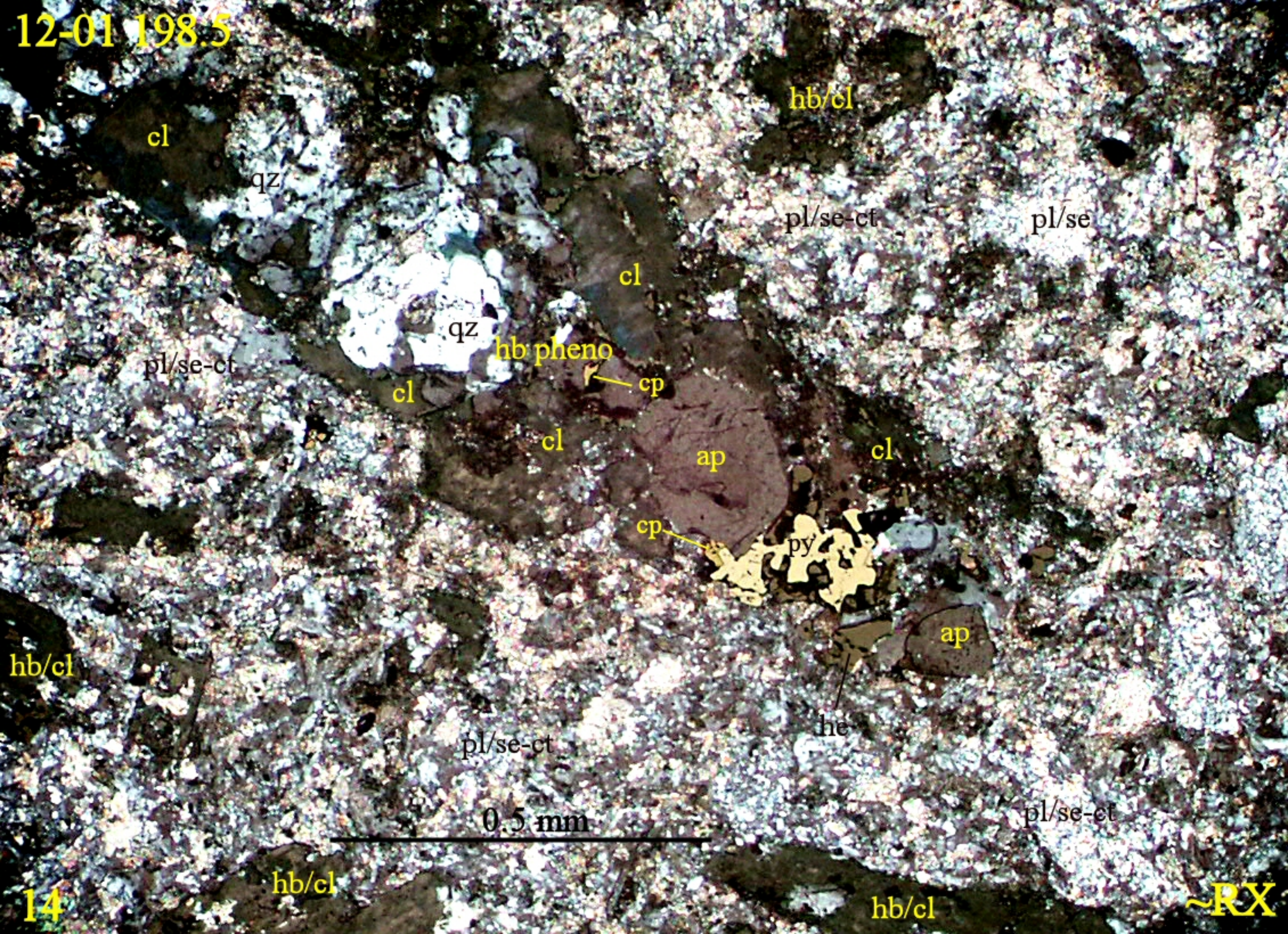

12-01.120
se-(pl)
py
se-(pl)
py-se
se-(pl)
py
py-se
py
py
py
py-se
se-(pl)
py-se
se-(pl)
se-(pl)
py
py
py
py-se
py
py
se-(pl)
py
se-(pl)
se-(pl)
09
0.5 mm
~RX

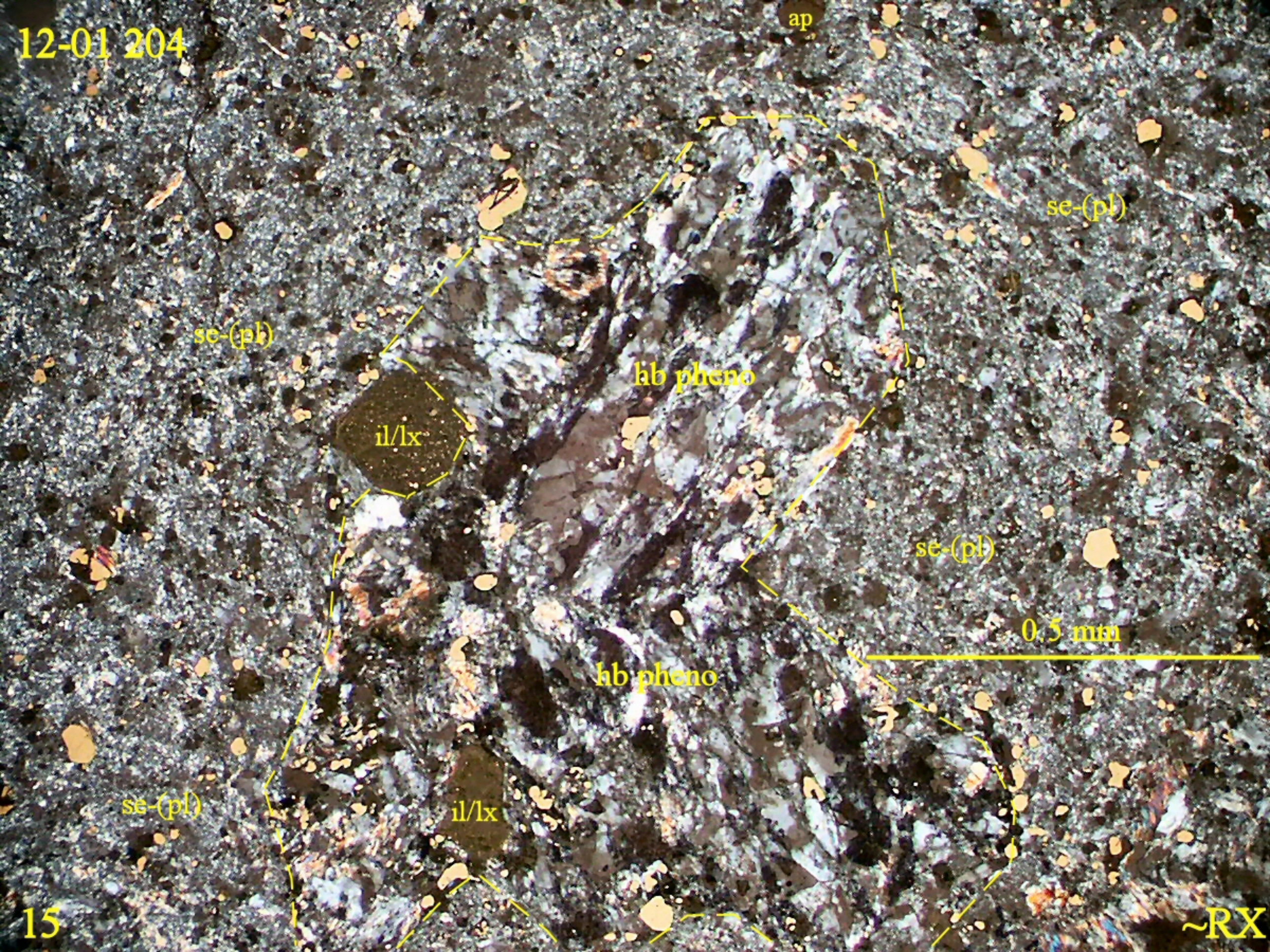

12-01 155.75
se
py
se
se-pl
py
py
py
py
py
py
se
py
se-pl
py
qz
se
py
qz
py
py
se
se-pl
py
py
py
se-pl
10
0.5 mm
X

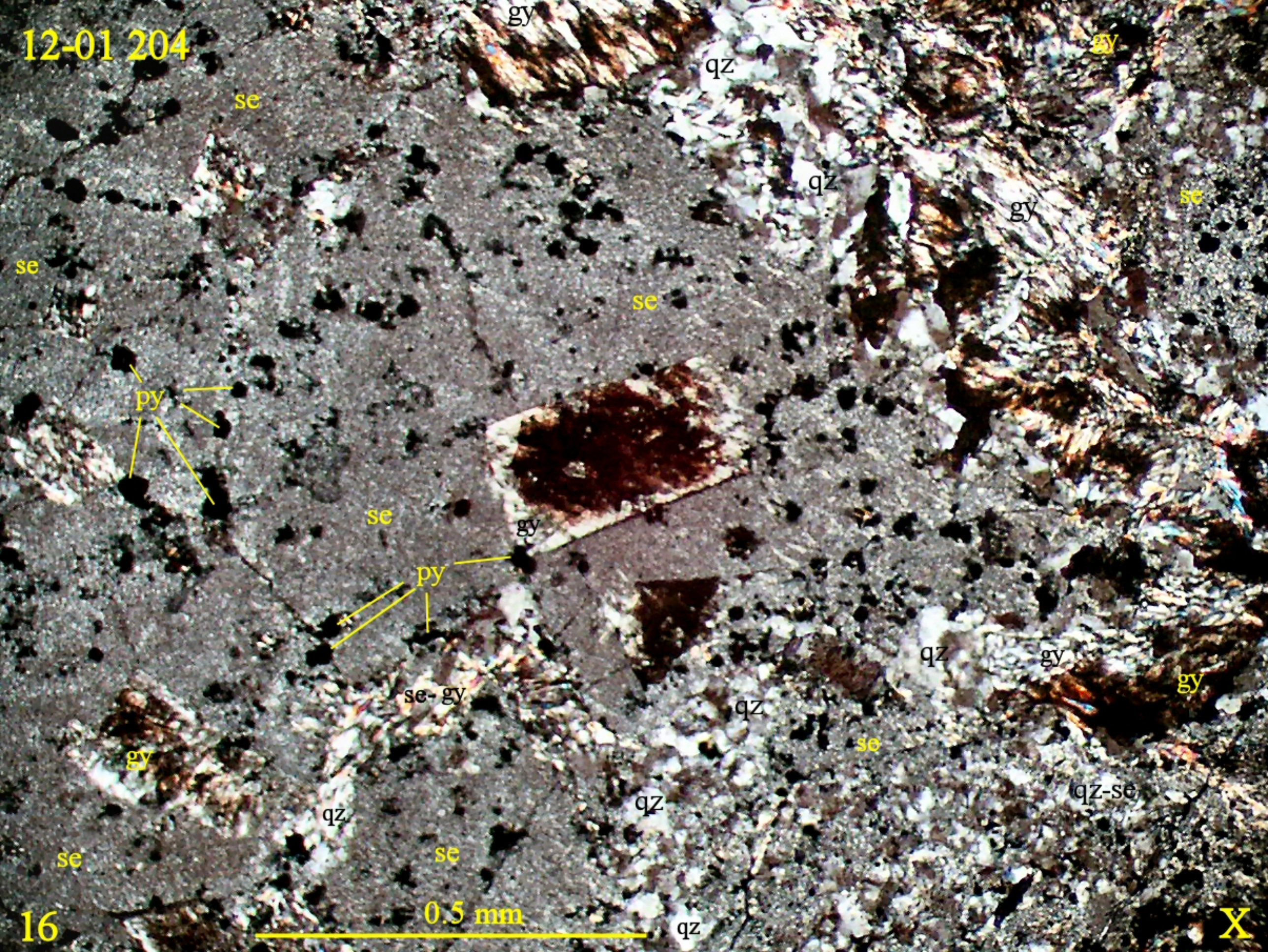

12-01 155.75
se-pl
se-pl
gy
gy
py
py
se-pl
se-pl
gy
py
se-pl
gy
se-pl
py
lx
se-pl
py
gy
gy
ct
py
se-pl
ct
11
0.5 mm
X

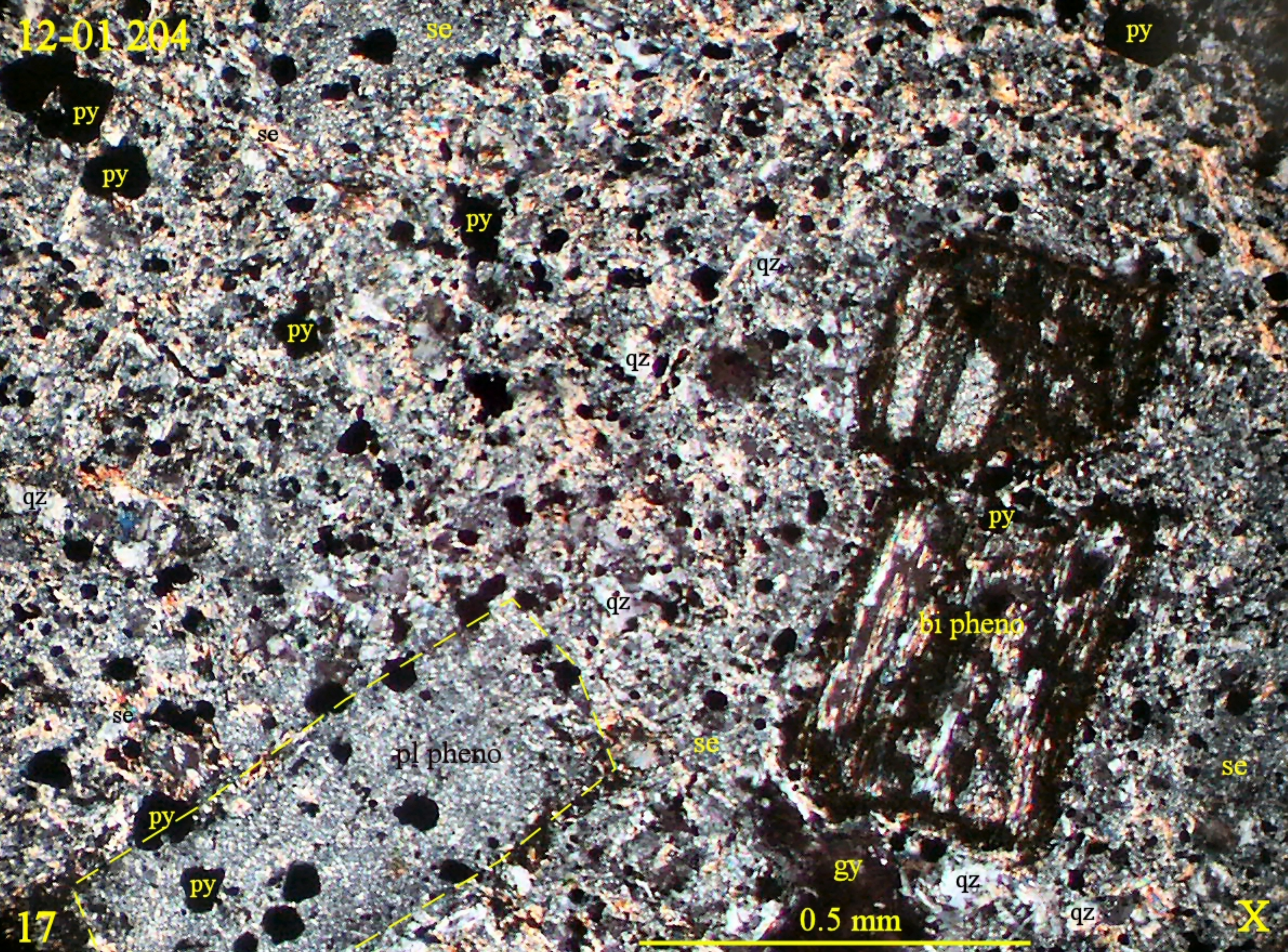

12-01 198.5
ct
pl/se-ct
pl
cl
ct
pl
qz
pl
qz
pl/se
cl
pl/se-ct
ct
cl
hb pheno
cl
ct
qz
hb pheno
cl
ct
qz
he
ct
ct
cl
he
cl
qz
pl/se-ct
ct
ct
0.5 mm
12
X

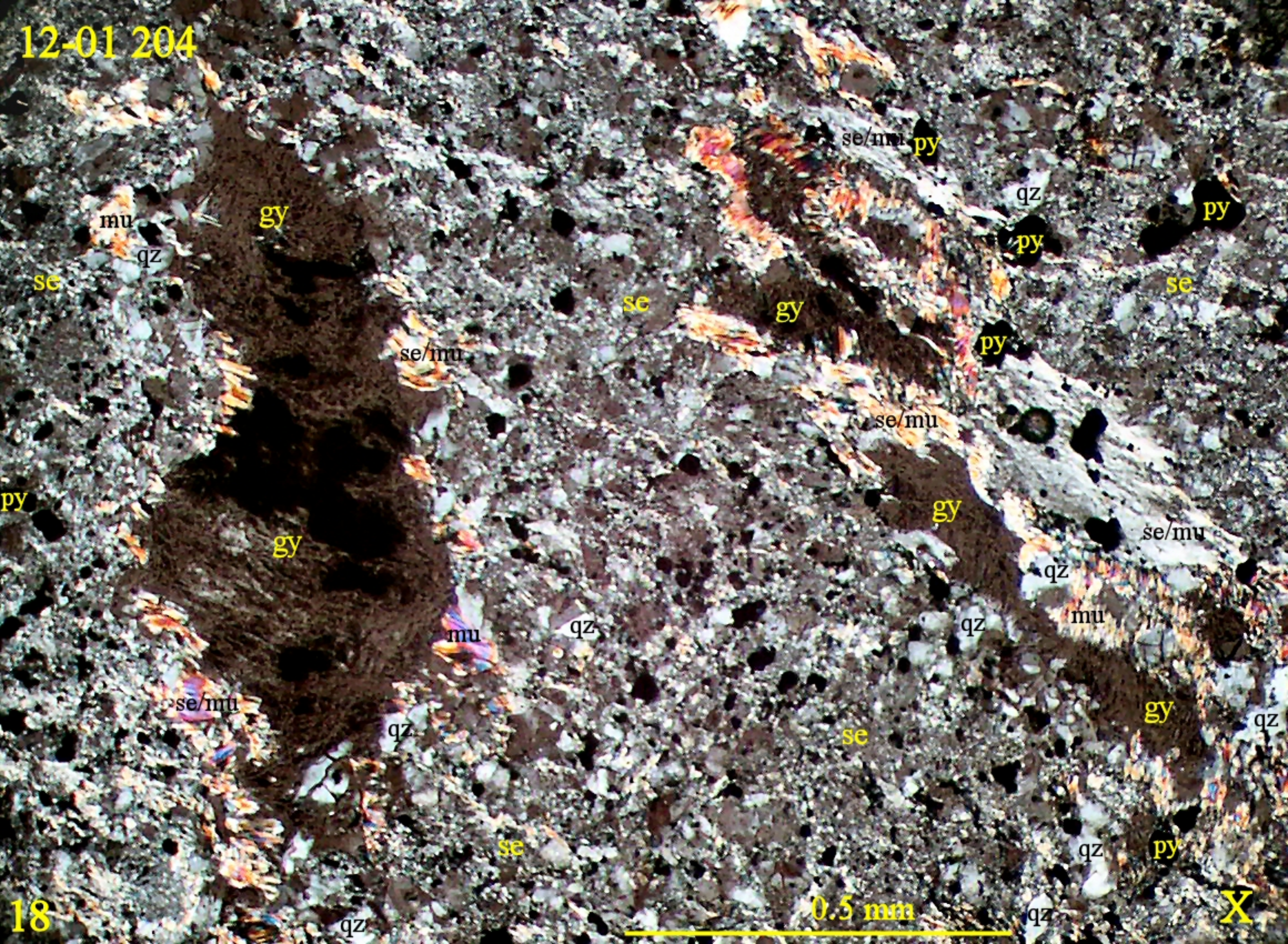

12-01 198.5
se
hb
pl/se-ct
hb
ct
ct
gy
gy
ct
ct
hb
gy
gy
ct
gy
pl pheno
hb
pl
pl/se-ct
ct
pl/se-ct
hb
hb
hb
13
X

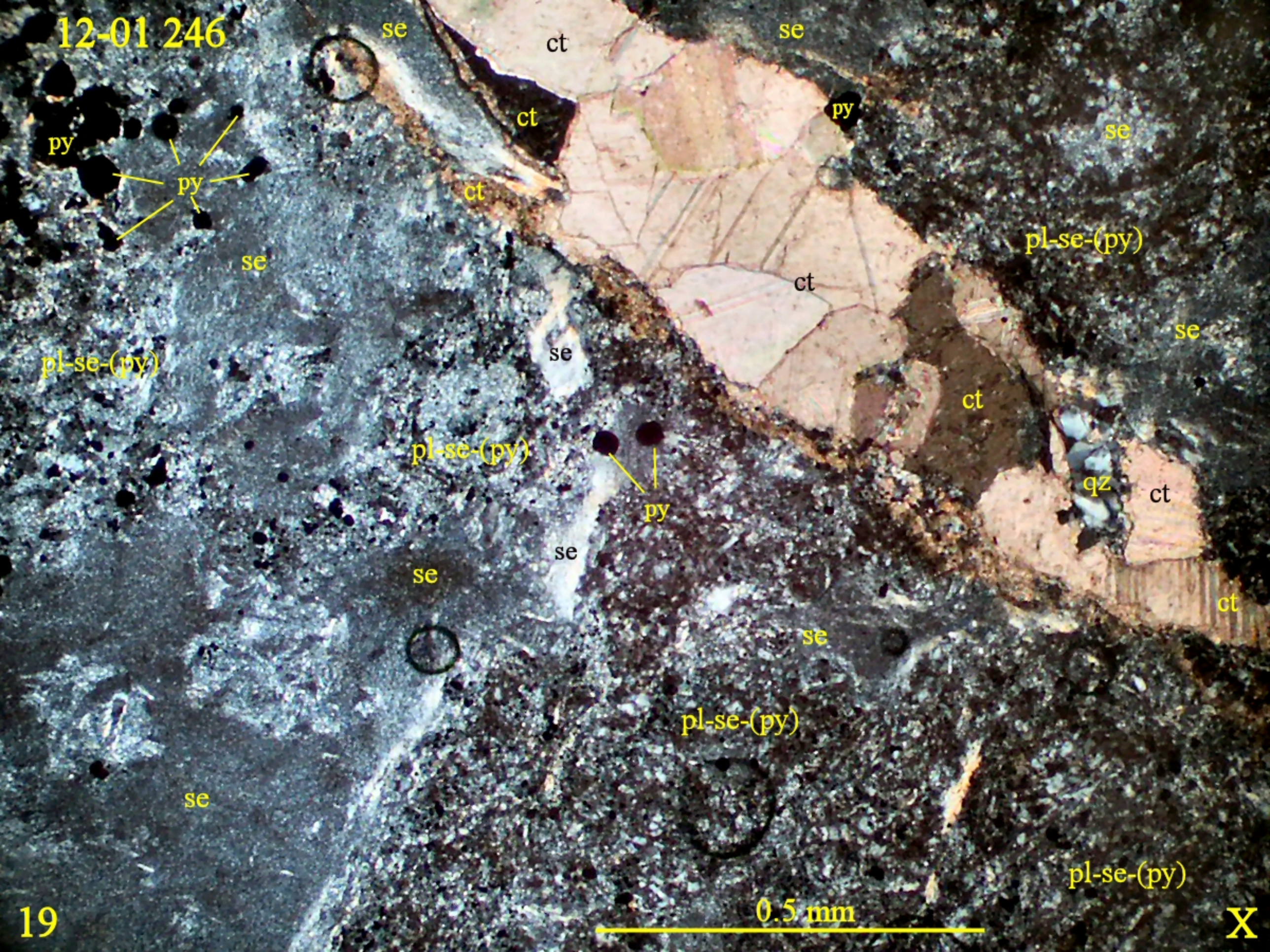

12-01 198.5
cl
qz
hb/cl
pl/se-ct
pl/se
cl
qz
hb pheno
cp
pl/se-ct
cl
cl
ap
cl
cp
py
ap
hb/cl
he
pl/se-ct
0.5 mm
pl/se-ct
hb/cl
hb/cl
14
~RX

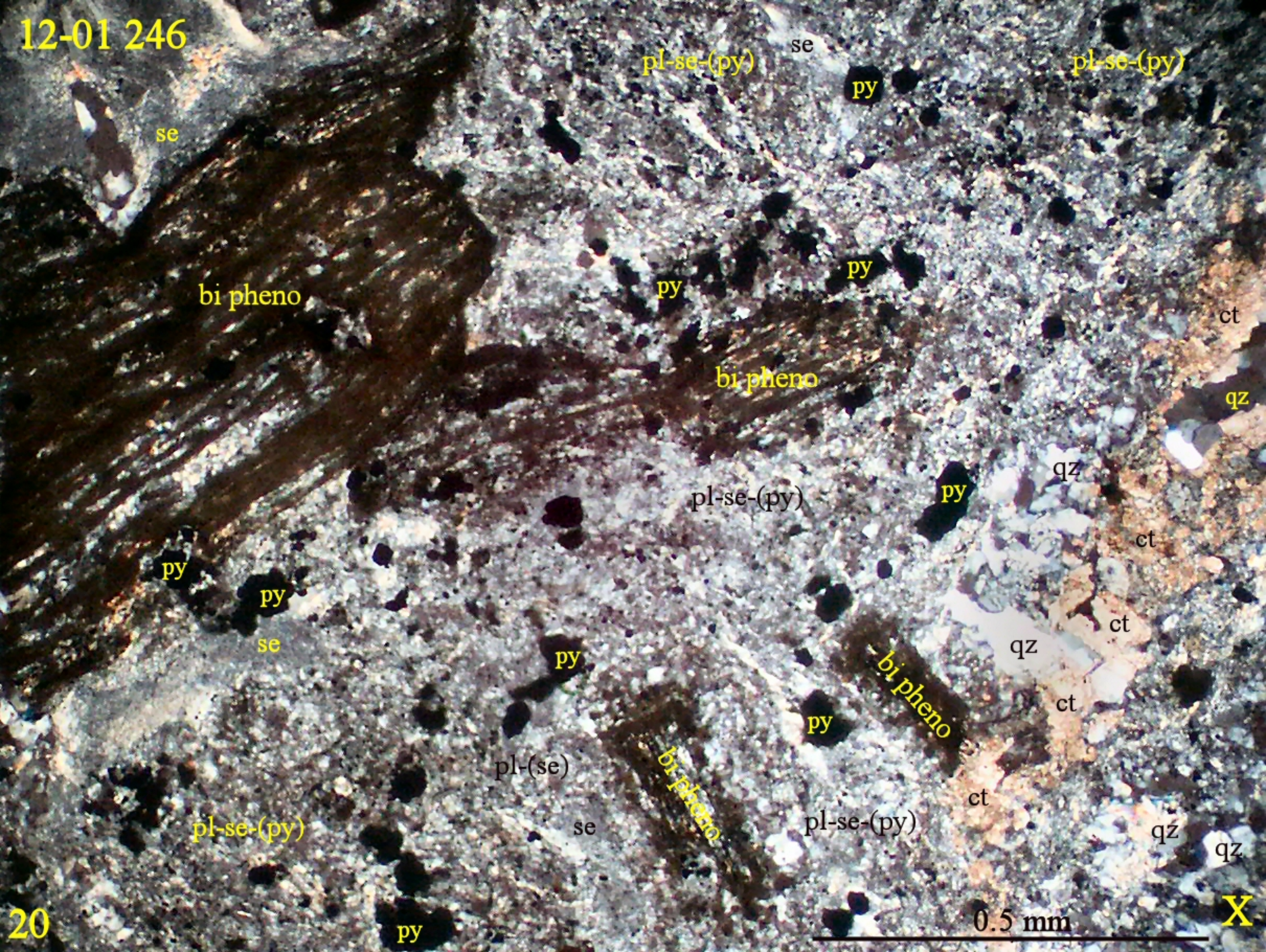

12-01 204
ap
se-(pl)
se-(pl)
hb pheno
il/lx
se-(pl)
0.5 mm
hb pheno
se-(pl)
il/lx
15
~RX

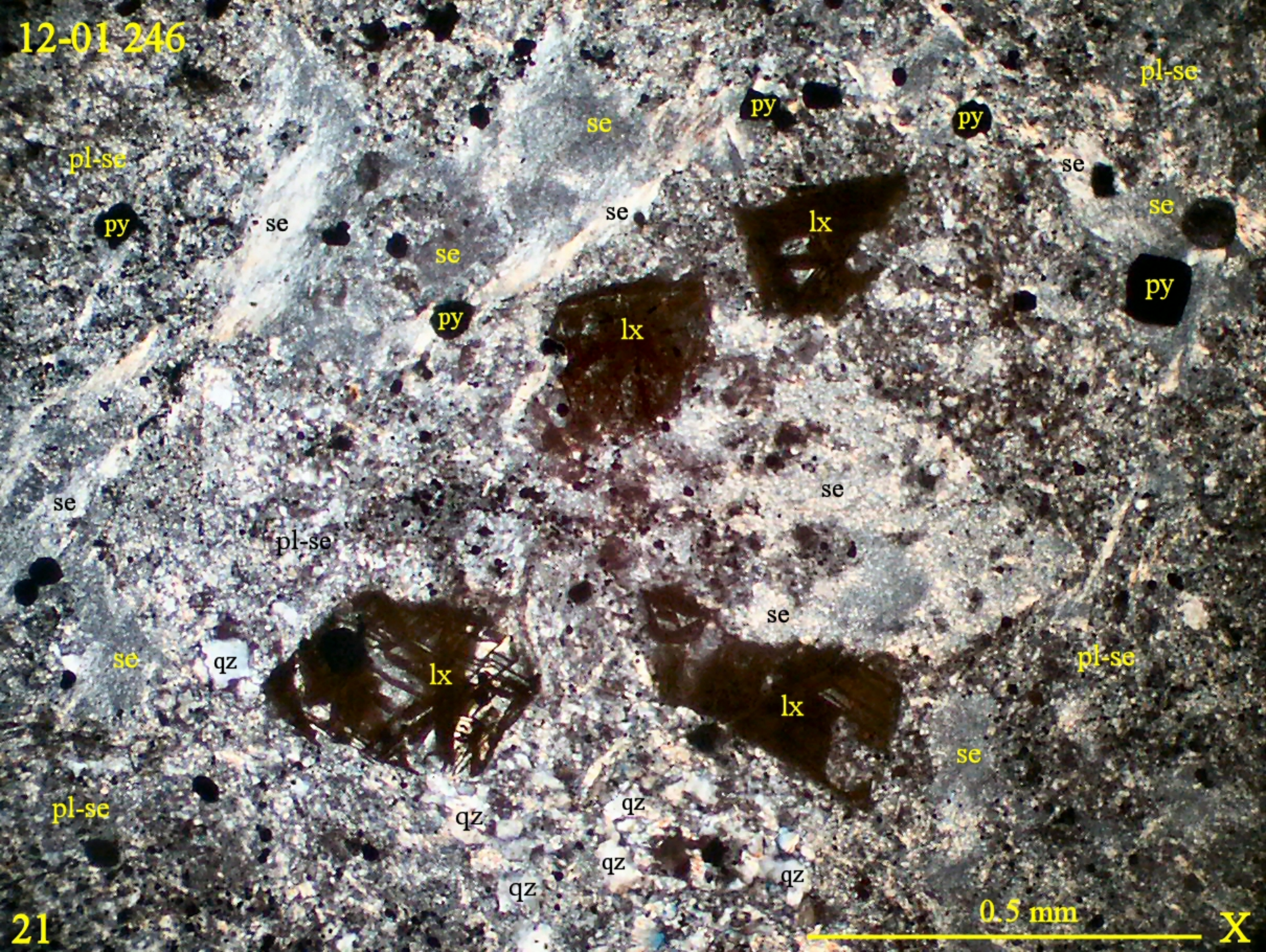

12-01 204
gy
qz
gy
se
qz
gy
se
se
se
se
py
se
gy
py
qz
gy
gy
se- gy
qz
se
gy
qz-se
qz
qz
se
se
0.5 mm
qz
16
X

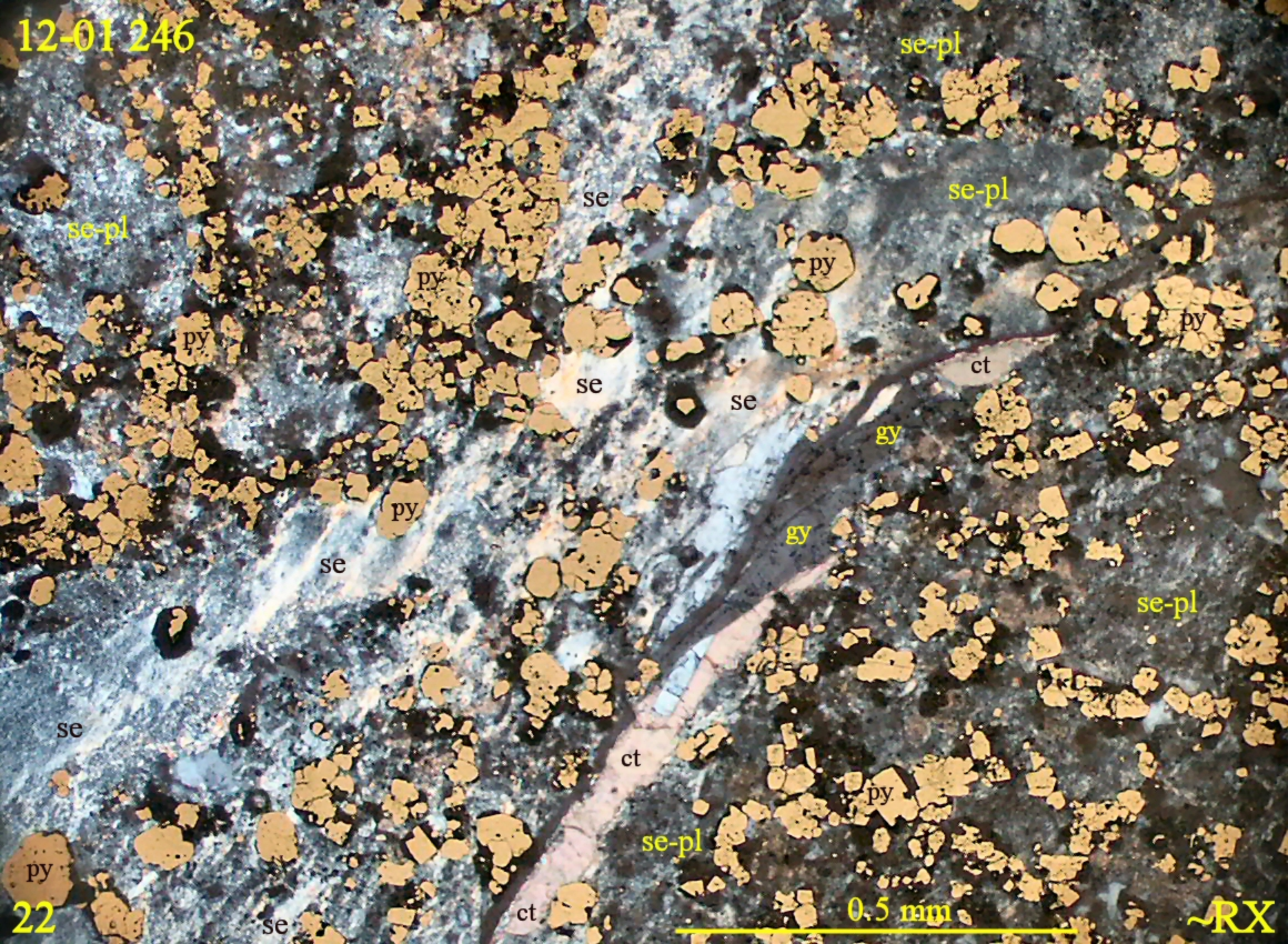

12-01 204
se
py
py
se
py
py
py
qz
qz
qz
qz
py
bi pheno
se
pl pheno
se
se
py
py
gy
qz
qz
0.5 mm
17
X

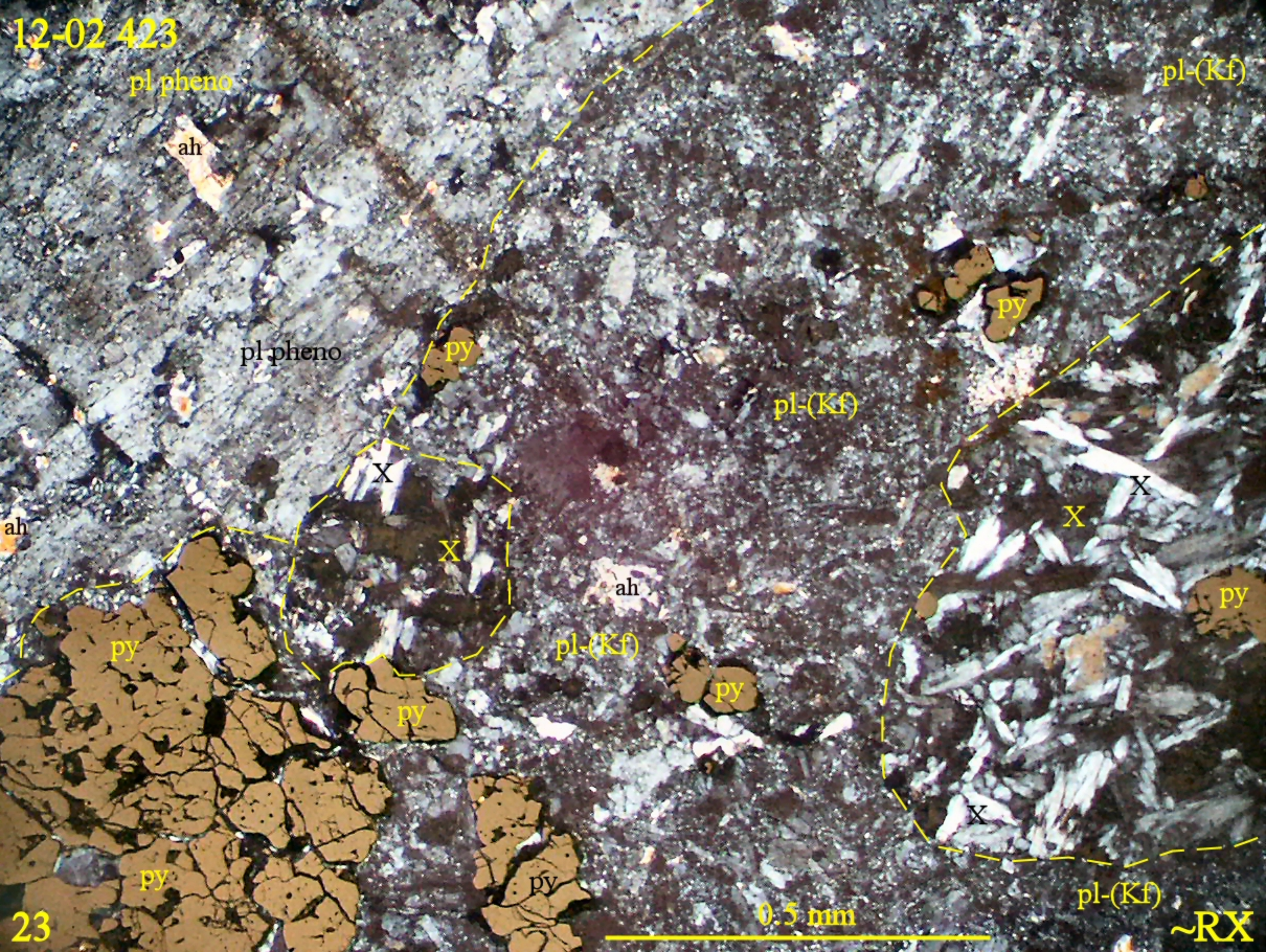

12-01 204
se/mu
py
qz
py
py
se
mu
qz
se
gy
se
gy
py
se/mu
se/mu
py
gy
gy
se/mu
qz
mu
qz
mu
qz
se/mu
qz
se
gy
qz
se
qz
py
18
qz
0.5 mm
X

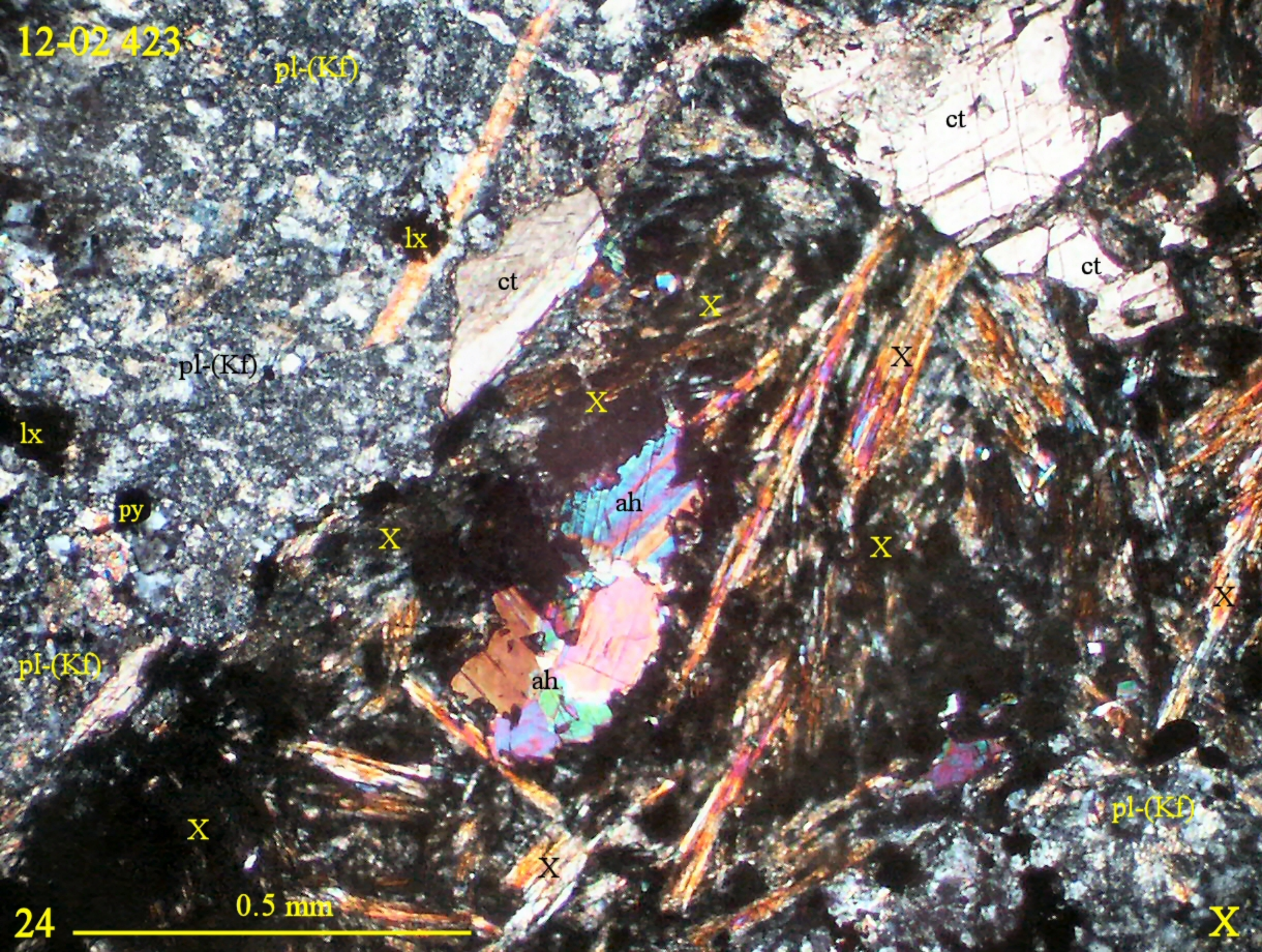

12-01 246
se
ct
se
ct
py
se
py
py
ct
pl-se-(py)
se
ct
se
pl-se-(py)
se
ct
pl-se-(py)
py
qz
ct
se
se
ct
se
pl-se-(py)
se
pl-se-(py)
0.5 mm
19
X

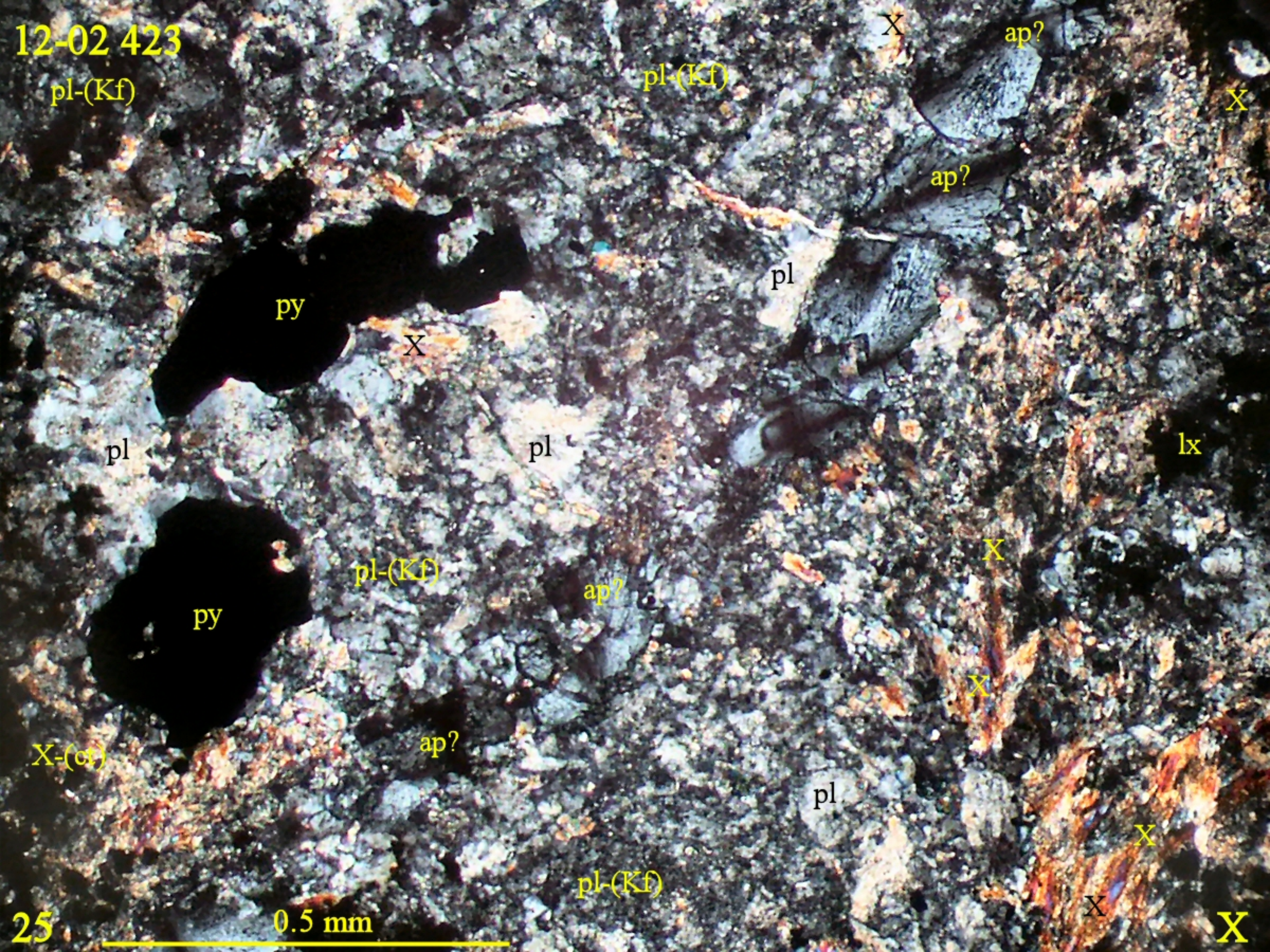

12-01 246
se
pl-se-(py)
se
py
pl-se-(py)
se
bi pheno
py
py
ct
bi pheno
qz
qz
pl-se-(py)
py
ct
py
py
se
ct
qz
py
bi pheno
ct
py
pl-(se)
bi pheno
ct
pl-se-(py)
se
pl-se-(py)
qz
qz
20
py
0.5 mm
X

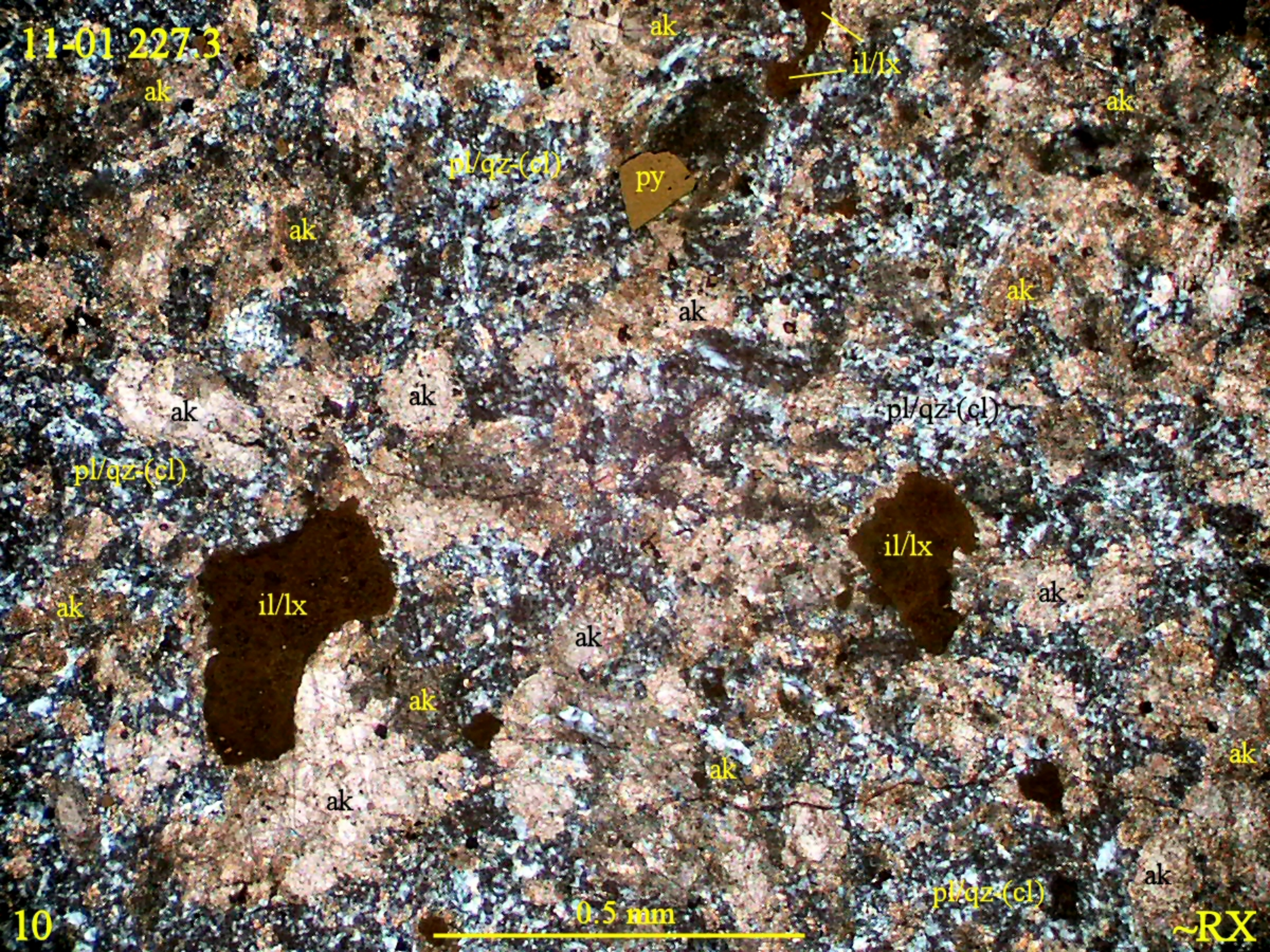

12-01 246
pl-se
se
py
py
pl-se
se
se
se
se
lx
se
py
se
py
lx
se
pl-se
se
qz
lx
lx
se
pl-se
qz
qz
qz
qz
qz
0.5 mm
X
21

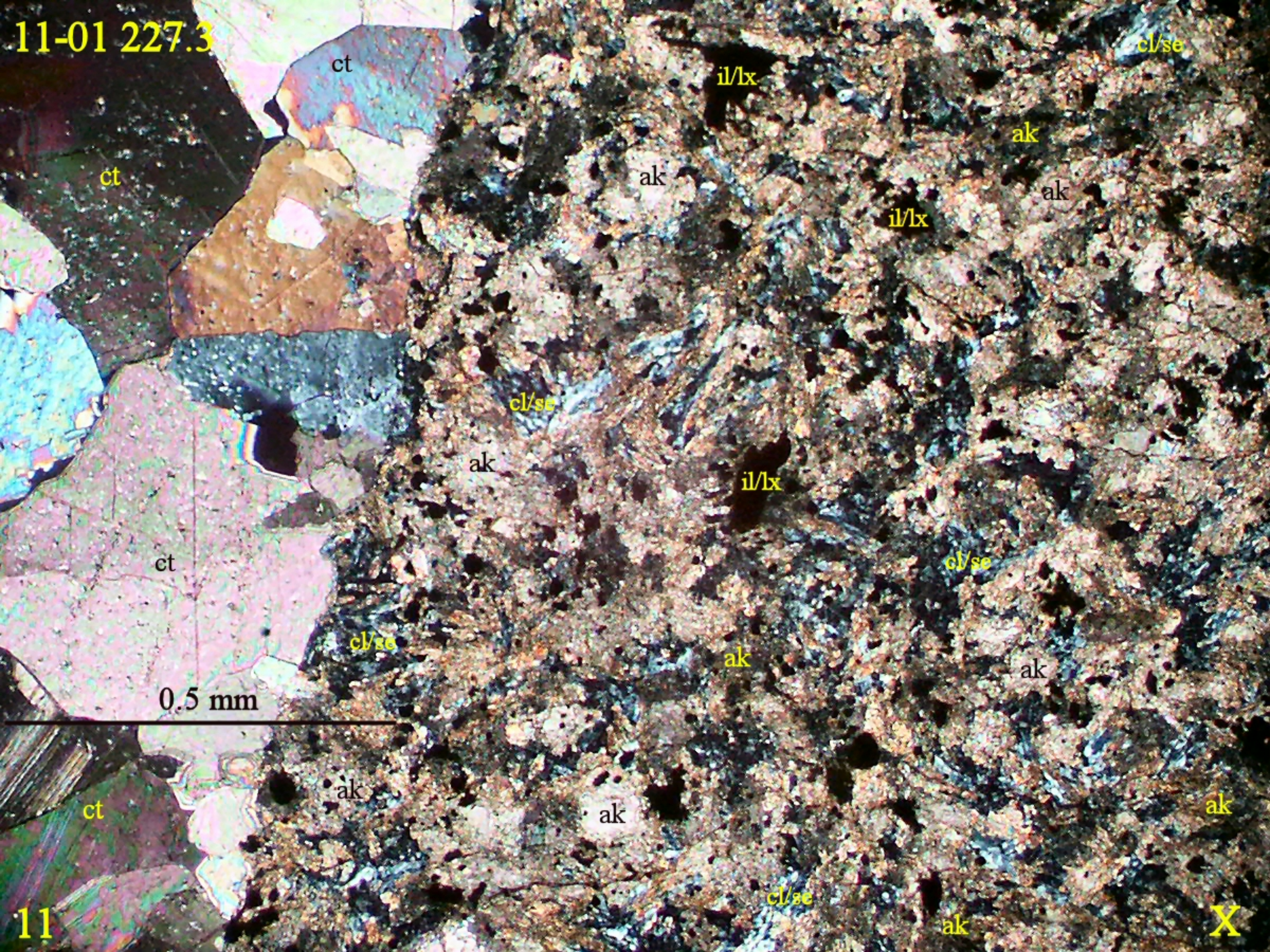

12-01 246
se-pl
se-pl
se
se-pl
py
py
py
py
se
se
ct
gy
py
gy
se
se-pl
se
ct
py
se-pl
py
22
se
ct
0.5 mm
~RX

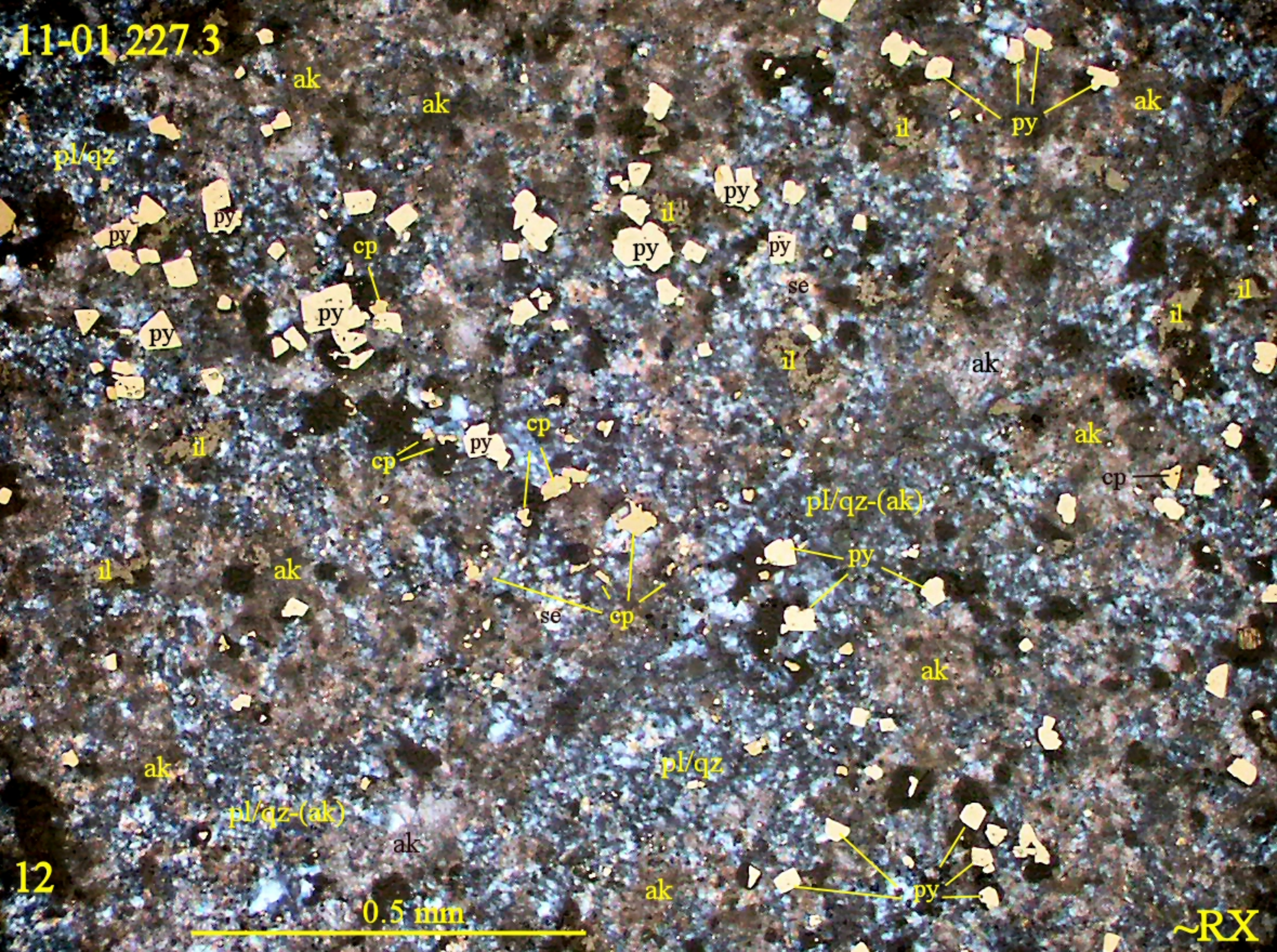

12-02 423
pl pheno
ah
pl pheno
py
pl-(Kf)
pl-(Kf)
py
X
X
X
ah
ah
py
pl-(Kf)
py
py
py
py
py
X
pl-(Kf)
0.5 mm
23
~RX

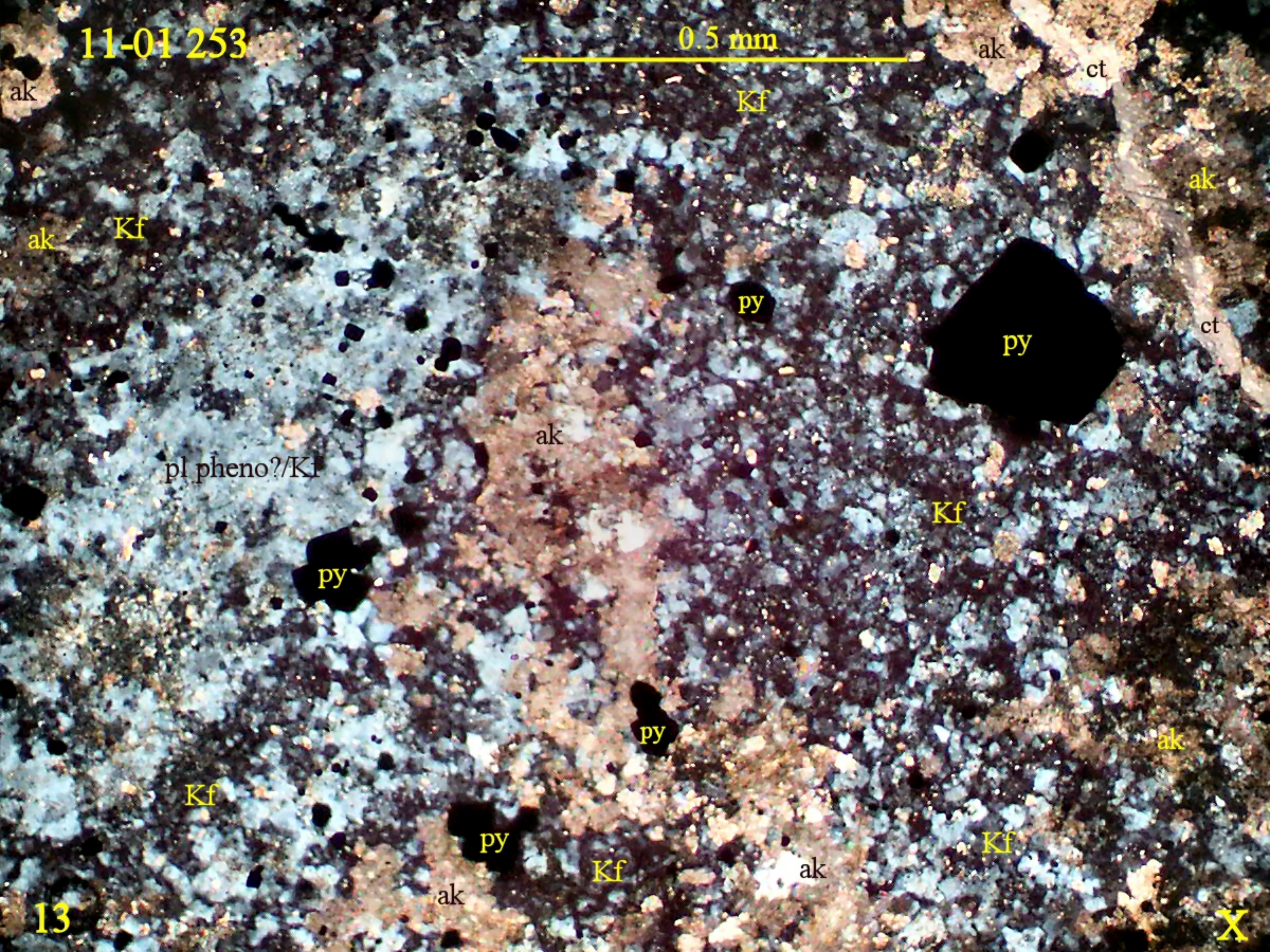

12-02 423
pl-(Kf)
ct
lx
ct
ct
X
pl-(Kf)
X
X
lx
ah
py
X
X
X
pl-(Kf)
ah
X
pl-(Kf)
X
0.5 mm
24
X

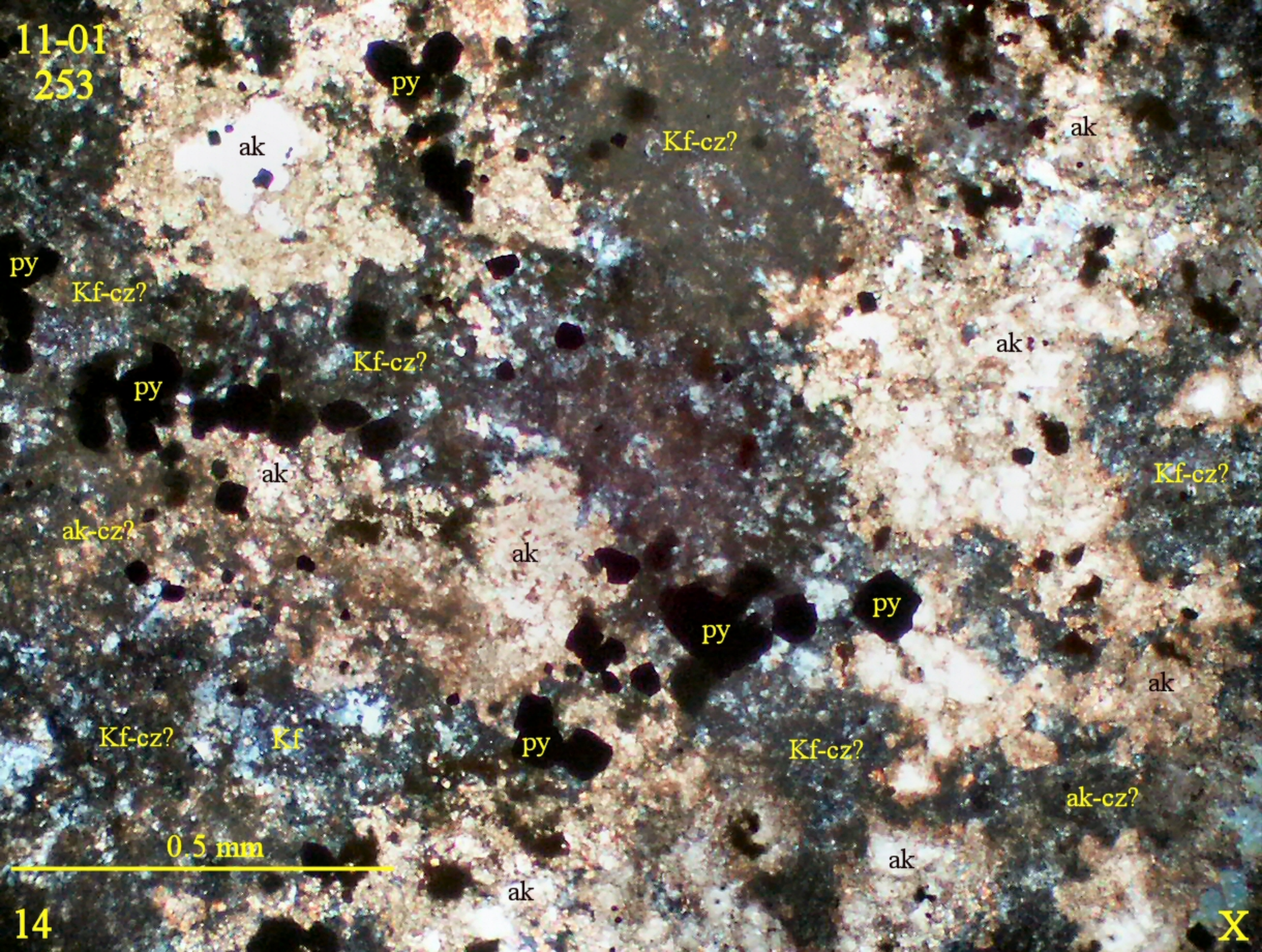

12-02 423
pl-(Kf)
X
ap?
pl-(Kf)
X
ap?
pl
py
X
pl
pl
lx
X
pl-(Kf)
ap?
py
X
X
ap?
X-(ct)
pl
X
pl-(Kf)
X
X
25
0.5 mm

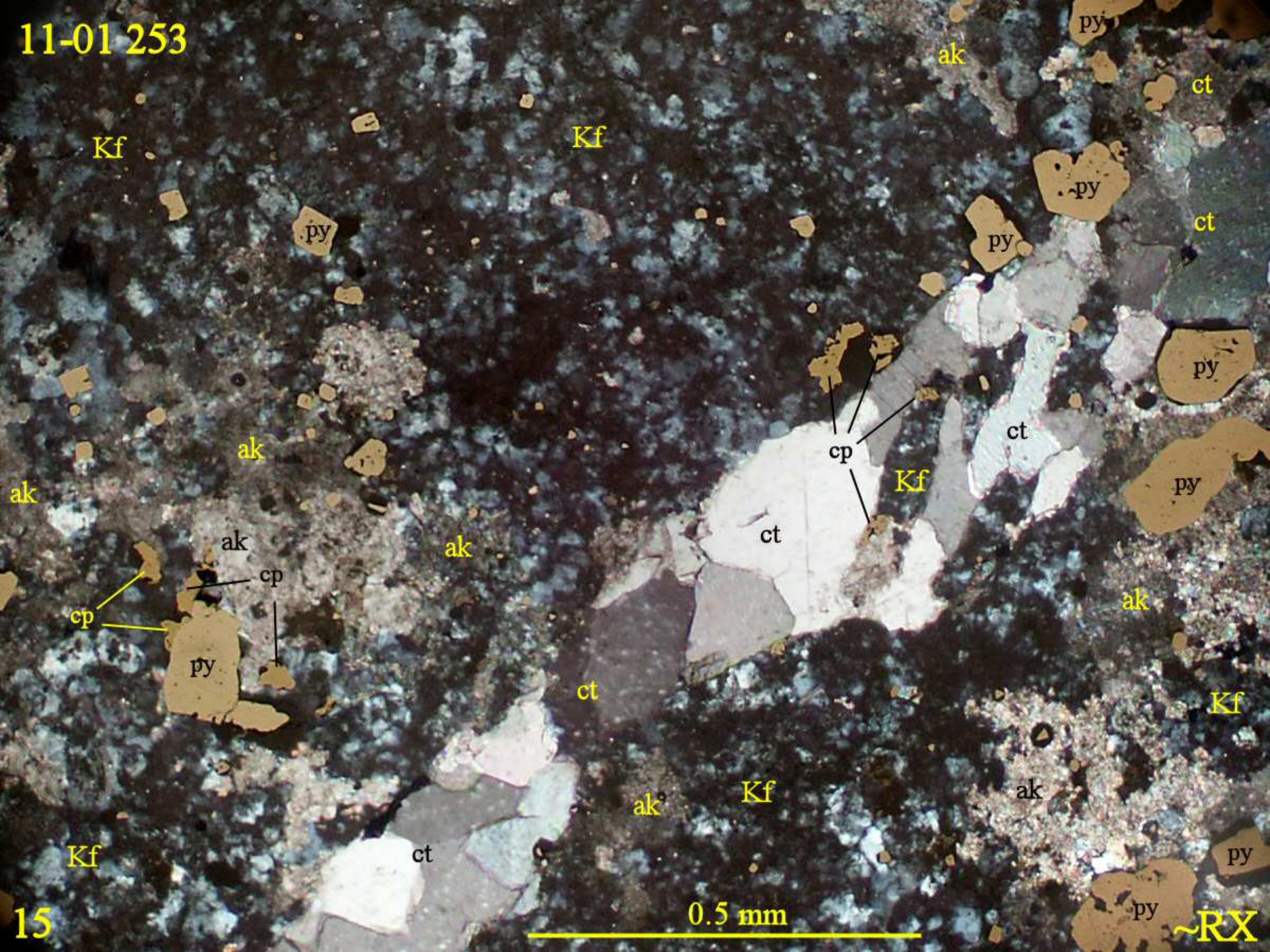

11-01 227.3
ak
il/lx
ak
ak
pl/qz-(cl)
py
ak
ak
ak
ak
ak
pl/qz-(cl)
pl/qz-(cl)
il/lx
ak
il/lx
ak
ak
ak
ak
ak
ak
pl/qz-(cl)
10
0.5 mm
~RX

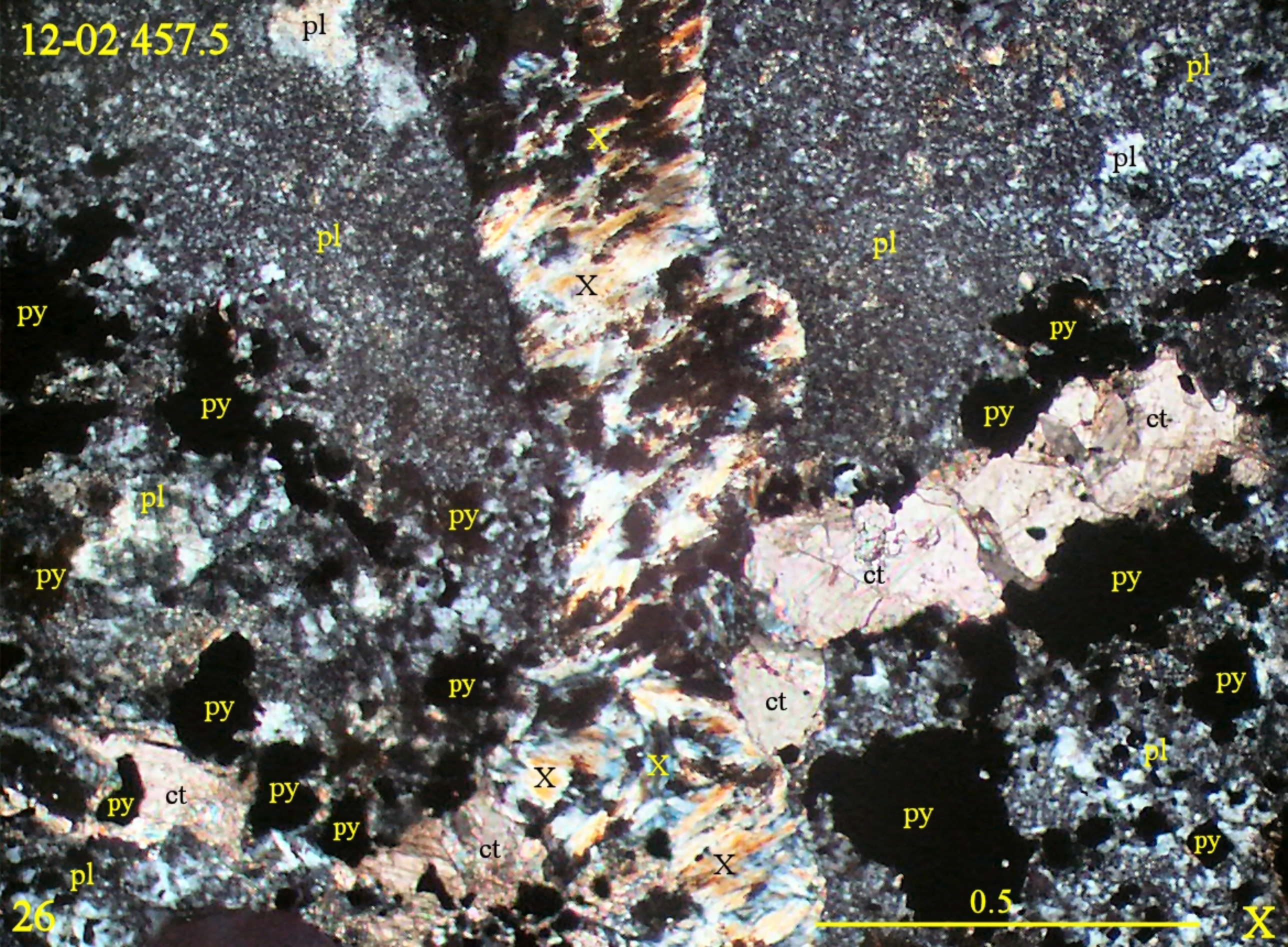

11-01 227.3
ct
ct
ct
ct
il/lx
cl/se
ak
ak
ak
il/lx
cl/se
ak
il/lx
cl/se
cl/se
ak
ak
ak
0.5 mm
ak
ak
ak
cl/se
ak
11
X

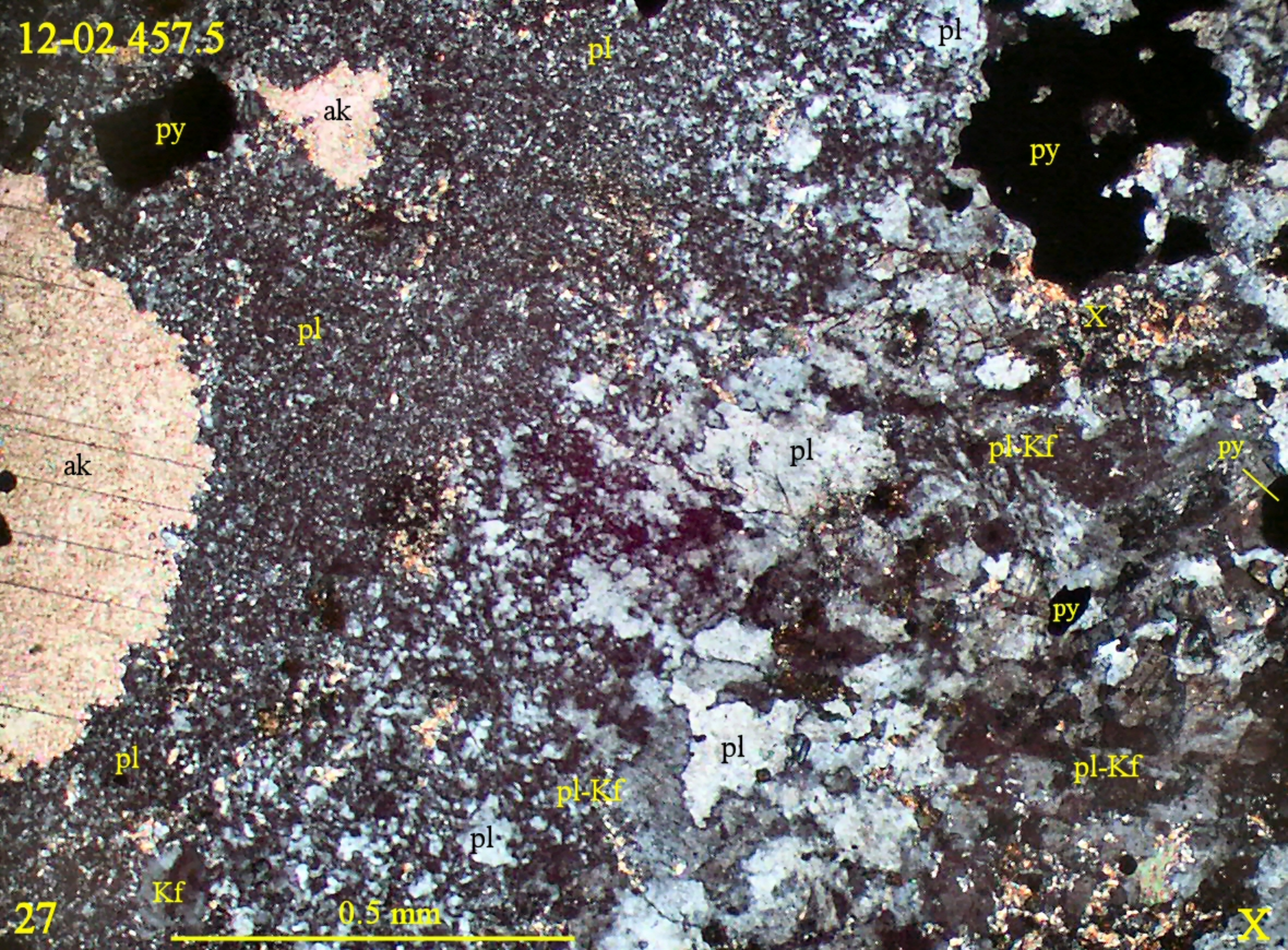

11-01 227.3
ak
ak
pl/qz
py
py
py
cp
py
py
il
py
py
se
il
py
il
il
ak
ak
il
cp
cp
py
cp
pl/qz-(ak)
cp
il
ak
py
se
cp
ak
ak
pl/qz
pl/qz-(ak)
ak
12
ak
py
0.5 mm
~RX

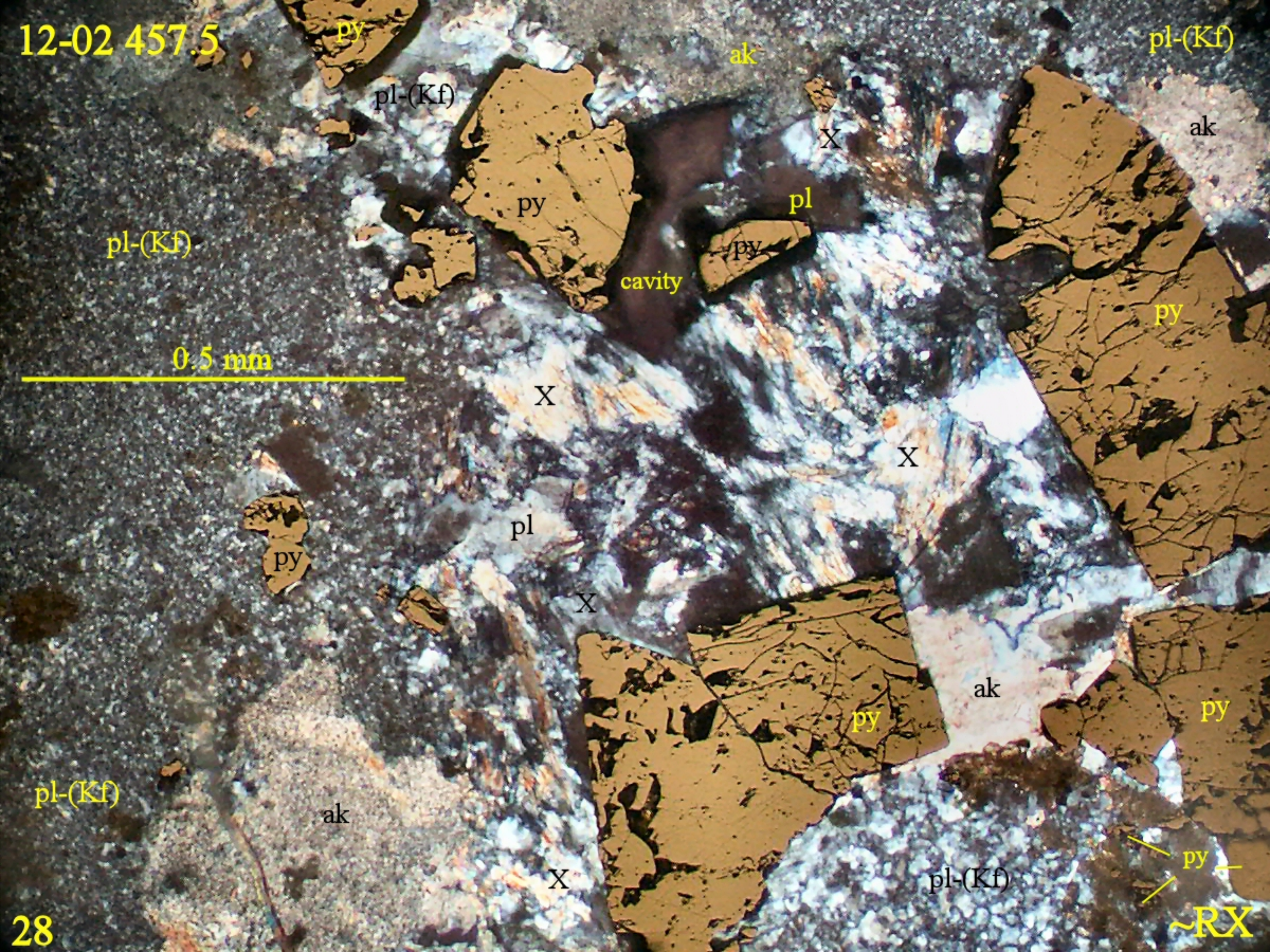

11-01 253
0.5 mm
ak
ct
Kf
ak
Kf
ak
py
py
ct
ak
pl pheno?/Kf
Kf
py
py
ak
Kf
py
Kf
ak
Kf
ak
13
X

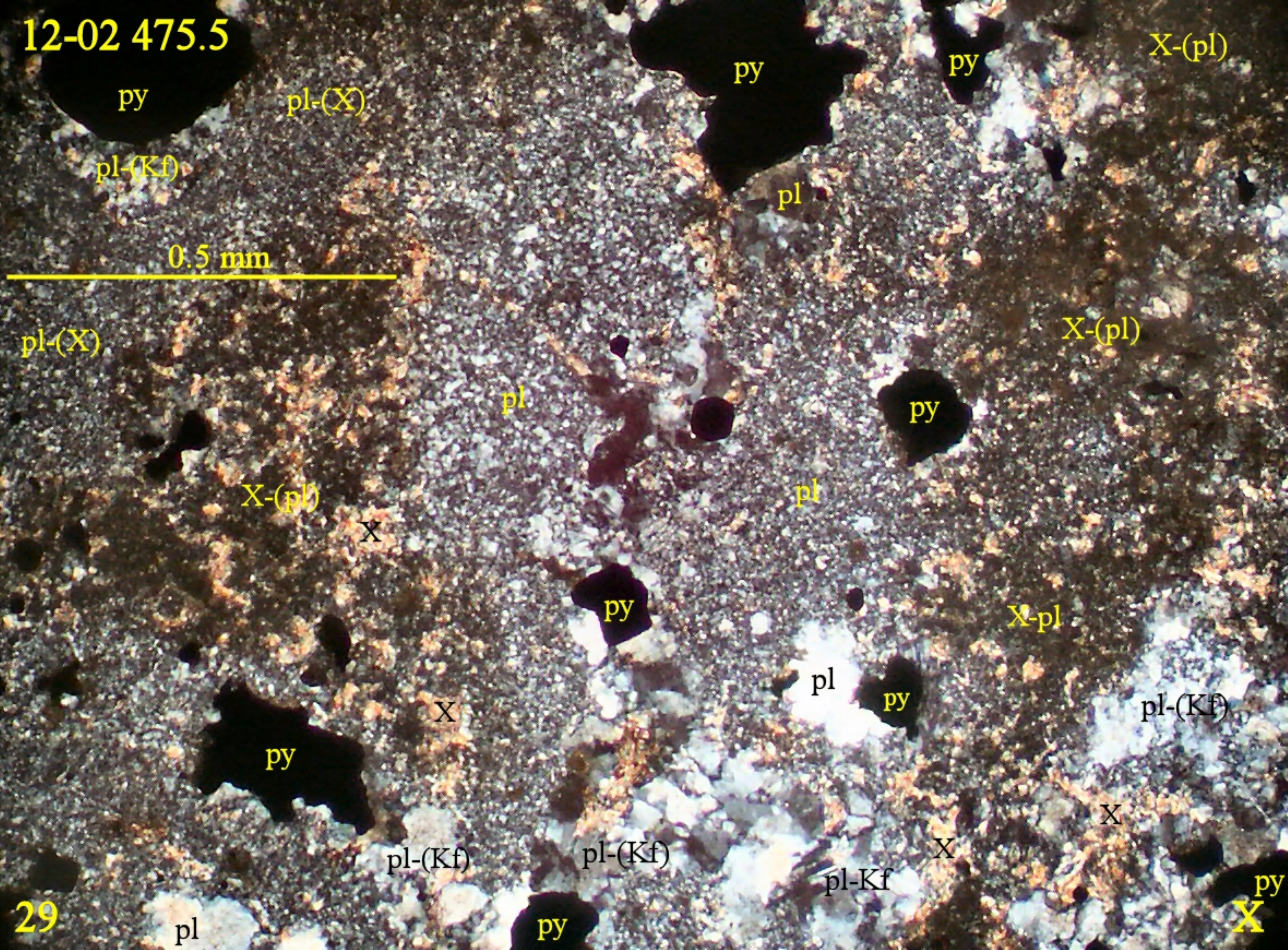

11-01
253
py
ak
Kf-cz?
ak
py
Kf-cz?
Kf-cz?
py
ak
ak
Kf-cz?
ak
ak-cz?
ak
py
py
ak
Kf-cz?
Kf
py
Kf-cz?
ak-cz?
0.5 mm
ak
ak
14
X

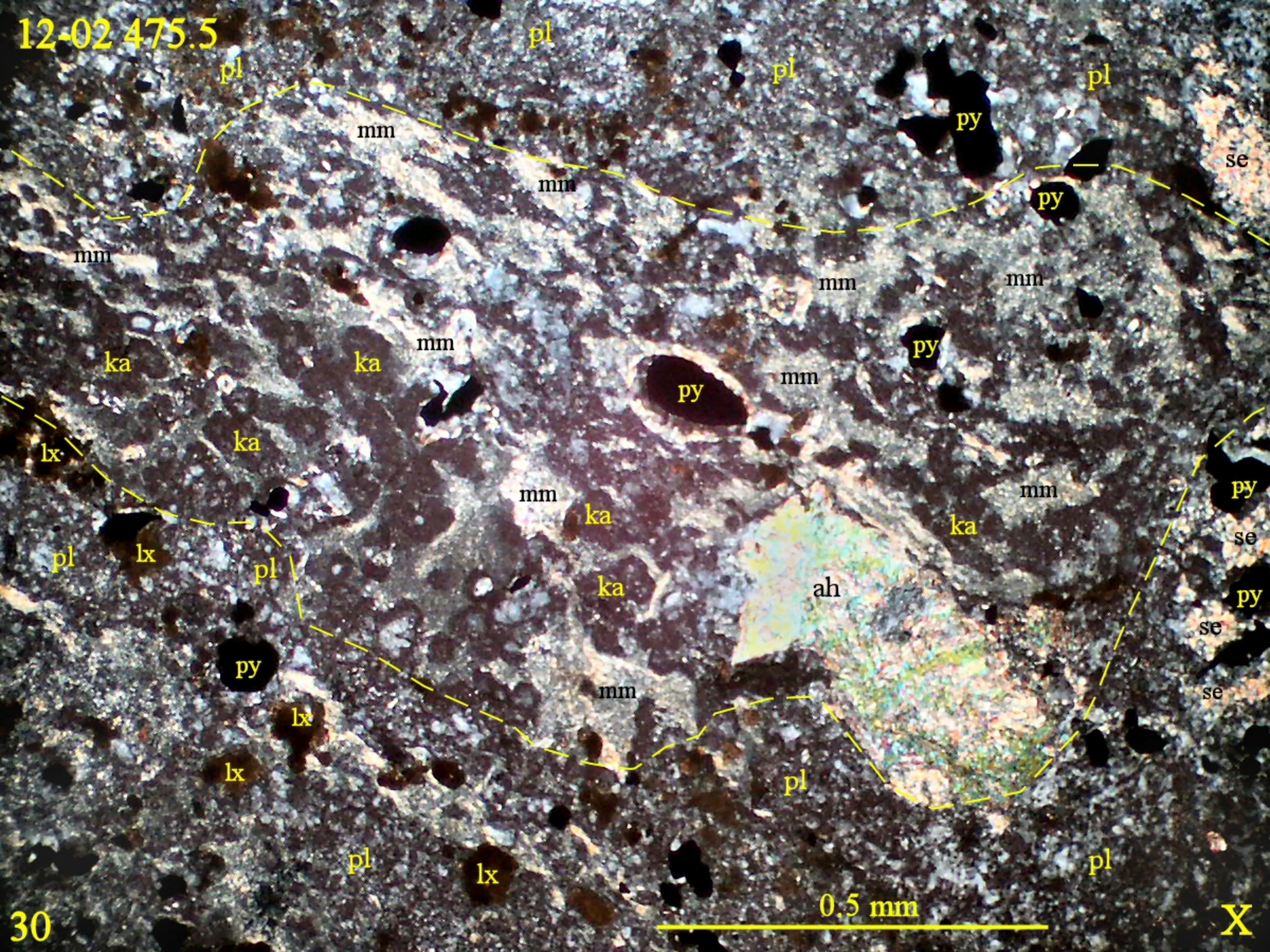

11-01 253
Kf
Kf
py
ak
py
ct
py
ct
py
py
ct
cp
Kf
ct
py
ak
ak
ak
ak
cp
cp
py
ct
ak
Kf
Kf
ak
Kf
ak
ct
py
py
0.5 mm
15
~RX

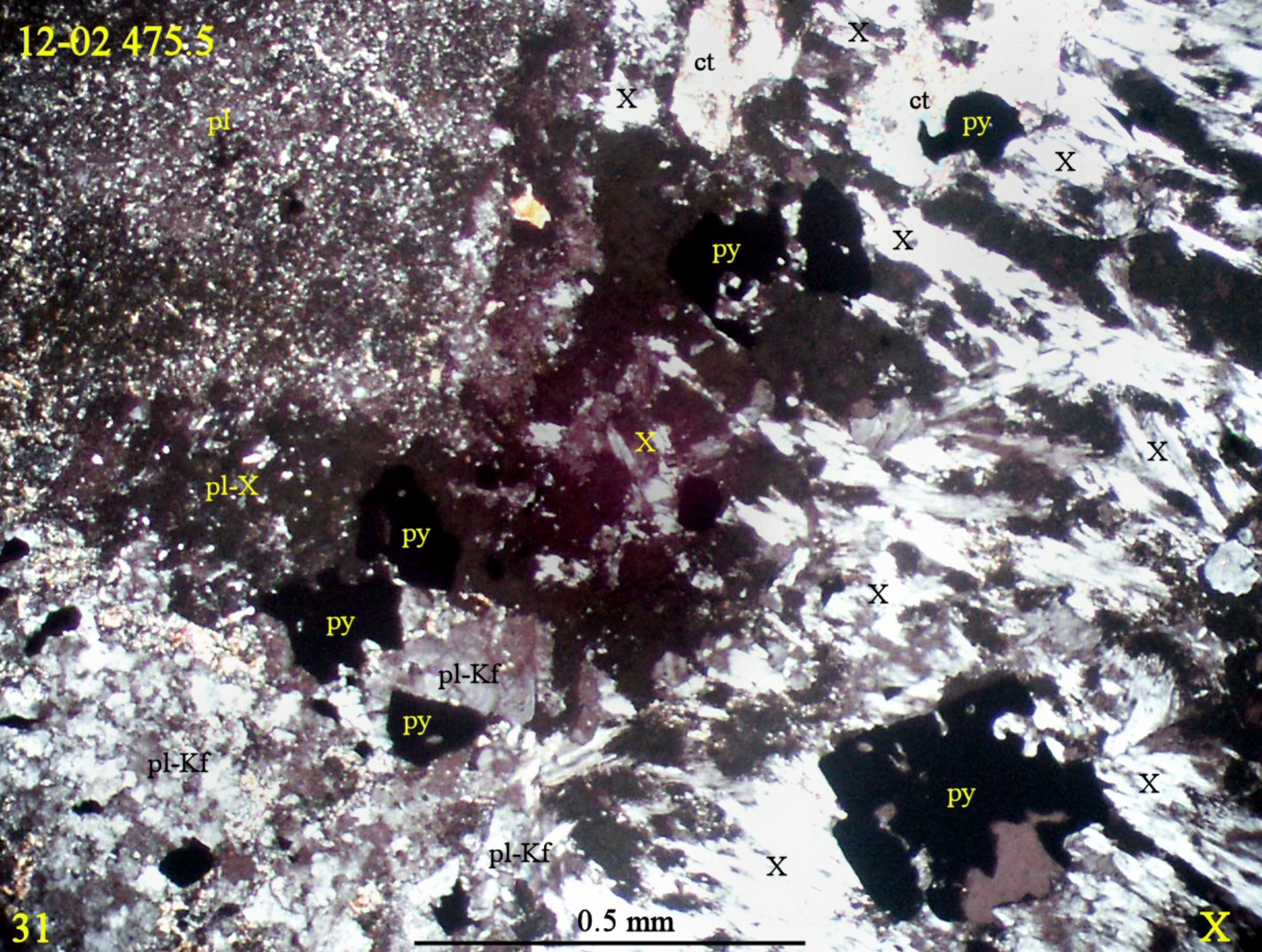

12-02 457.5
pl
X
pl
pl
pl
X
py
py
py
py
ct
pl
py
ct
py
py
ct
py
py
ct
py
X
X
py
pl
py
ct
py
pl
ct
X
X
0.5
26
X


12-02 457.5
pl
pl
py
ak
py
X
pl
ak
pl
pl-Kf
py
py
pl
pl
pl-Kf
pl-Kf
pl
Kf
0.5 mm
X


12-02 457.5
py
pl-(Kf)
ak
pl-(Kf)
ak
X
py
pl
py
cavity
pl-(Kf)
py
0.5 mm
X
X
pl
py
X
ak
py
py
pl-(Kf)
ak
X
pl-(Kf)
py
~RX
28


12-02 475.5
py
pl-(X)
pl-(Kf)
0.5 mm
pl-(X)
X-(pl)
X
pl
py
X-pl
pl-(Kf)
pl-Kf
29


12-02 475.5
pl
pl
pl
pl
mm
mm
py
py
se
mm
mm
mm
mm
ka
ka
mm
py
mm
py
ka
lx
mm
ka
mm
py
ka
pl
lx
pl
ah
se
py
se
se
py
lx
mm
lx
pl
pl
lx
0.5 mm
30
X


12-02 475.5
pl
ct
X
ct
py
X
X
py
X
X
X
pl-X
py
py
X
pl-Kf
py
pl-Kf
X
py
X
pl-Kf
X
0.5 mm
31
X