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Alcor Minerals Ltd., conducted an exploration program on Permit 147 commencing July 1, 1971 and completed at August 31, 1971.

This work consisted mainly of trenching and the recording of the trenching data. This trenching was done with two men crews carried out in three areas on the Permit. Only minor occurrences of mineralization was found.

Dated May 1, 1972.

Donald S. O'Sullivan, Secretary-Treasurer
QUARTZ MINERAL EXPLORATION PERMIT No. 147

AKAMINA MINERALS LTD.,
203, 10275 JASPER AVENUE,
EDMONTON 15, ALBERTA

DATE OF ISSUE - FEBRUARY 5, 1970
AREA - 9,600 ACRES

WATERTON LAKES NATIONAL PARK

ALBERTA BOUNDARY

BRITISH COLUMBIA BOUNDARY

R.2 R.1 W.5 M.
QUARTZ MINERAL EXPLORATION PERMIT No. 147

CANCELLED
PREVIOUSLY TRANSFERRED TO:
ALCOR MINERALS LTD.,
225 ONE THORNTON COURT,
EDMONTON, ALBERTA

DATE OF ISSUE - FEBRUARY 5, 1970
AREA - 9,600 ACRES
NO LEASES SELECTED

WATERTON LAKES NATIONAL PARK
1. Grinnell Formation
2. Pucell & Suyi Formations
3. Sheppard Formation
4. Gateway Formation
5. Phillips Formation
6. Roosevelt Formation
7. Paleozoic (undivided)
SECTION 14 - PRAIRIE BLUFF

Greyish red argillite; greyish red on fresh surfaces; beds 3\\textsuperscript{4} to 1\frac{1}{2}'; with ripple marks and salt casts.

Greyish red argillite; greyish red on fresh surface; beds 1\frac{1}{2} to 1'; ripple marks; salt casts and specular hematite along bedding.

Greyish red argillite; greyish red on fresh surfaces; beds 2\frac{1}{2} to 1'; ripple marks; salt casts and specular hematite along bedding.

Buff-weathered dolomitic argillite; greyish red to dark bluish grey on fresh surfaces; beds 1" to 2'.

Greyish red argillite; thin bedded; widely spaced jointing.

Light-buff-weathering argillite grading to argillaceous dolomite; light olive green on fresh surfaces; beds 4" to 6'; CHALCOPYRITE.

Sheppard Formation.

should have Section 4 - Victoria Peak. This section is N of the permit area.
Buff-weathering dolomite; beds 1" to 4".

Purplish-green-weathering siltstone grading to argillaceous siltstone; finely laminated.

Diorite silt.

Buff-weathering very fine-grained dolomite grading to silty dolomite; FINELY DISSEMINATED CHALCOPYRITE.

Brownish-grey-weathering argillaceous dolomite and siltstone; grey on fresh surfaces; beds 1" to 2".

Grey-weathering, fine-grained quartzite with limonitic spots; beds 6" to 2'.

Buff-weathering stromatolitic breccia and medium-grained dolomitic sandstone.

Interbedded purplish red siltstones, very fine sandstones and argillaceous siltstones with a few beds of buff siliceous dolomite, 3' thick.

Purple-weathering quartzite; beds 6" to 1'; crossbedded.

Buff-weathering medium-grained sandstone with dolomite cement; beds 2" to 6'.

Buff-weathering stromatolitic breccia; pink on fresh surfaces; siliceous.

Interbedded red siltstone and buff dolitic dolomite with red predominating; beds 4".

Mostly covered with one 10" bed of red siltstone and 6" of dolomitic sandstone at base.

Red-weathering siltstone; beds 1' to 6'; finely laminated.

Covered.

Interbedded greenish-to-buff-weathering dolomite, siltsone and limy argillite; beds 1" to 4"; a few interbeds of sandstone, 4" thick, and of edgewise conglomerate; beds are irregular and lensiclar.

Brown-grey-weathering quartzite with argillite pebbles and chips and with interbeds, 4' to 6' thick, of very fine-grained buff-weathering dolomite.

Brown-grey-weathering dolomitic siltstone with 8" interbeds of coarse-grained quartz sandstone; light grey on fresh surfaces.
Red-weathering argillaceous siltstone and silty argillite becoming sander and thicker at top with bands, bleached white, throughout.

Light green dolomitic argillaceous siltstone; finely laminated.

Red argillaceous siltstone which forms series of resistant bands in outcrop; bleached whitish bands throughout; finely laminated 1" beds of green argillite near top.

Light green dolomitic argillite; very finely laminated with beds 1" to 3". Greenish-buff-weathering, very fine-grained dolomite; beds 1" to 18".

Light green dolomitic argillite; very finely laminated. Purplish red argillaceous siltstone; grey green bands increasing toward top.

Light-green-weathering argillaceous siltstone containing dolomite beds, 3" to 1" thick, which weather out as brown bands; grades down into 18" basal greyish purple siltstone.

Red-weathering silty argillite grading to siltstone; beds 1" to 2"; finely laminated and with thin argillaceous partings; salt coats abundant on bedding planes; siltstone lenses form resistant ribs, 1" to 4" thick; light brownish grey siltier beds are present sporadically throughout; locally more resistant due to increased sand content.

Small scale crossbedding and ripple marks.

White bands comprise 50% and produce striped appearance.

Regular alternation of brownish grey siltstones and red argillaceous siltstones.
SECTION 2 - PINCHER RIDGE

PHILLIPS FORMATION

Green argillite with more resistant silifer beds; 3" to 4" thick; more abundant.
Brown-weathering dolomitic sandstone grading to siltstone; beds 2" to 3".
Green-weathering siltstone with thin argillaceous partings; beds 6" to 10".

Interbedded green-weathering siltstones and argillites with a few 4" beds of brown-weathering dolomite.
Purplish red-weathering, very finely laminated argillaceous siltstone.
Green-weathering, very finely laminated argillite with a few more resistant siltstones of 2" to 4" thick.
Rusty-brown-weathering finely laminated, silty dolomite with beds 2" to 3" thick; fine-ripple marks.
Brownish green-weathering, very fine-grained dolomite grading to argillaceous dolomite; beds 2" to 4"; more argillaceous at top.

Green-weathering argillaceous siltstone with interbeds of silty dolomite, 1" to 4" thick.
Brown-weathering, sandy dolomite in very thin beds.
Green-brown-weathering silty dolomite in very thin beds.
Brownish green-weathering argillite grading to argillaceous siltstone; finely laminated.
Interbedded purplish red siltstones, green argillaceous siltstones and a few sandy silts; in some beds 2" to 4" thick; argillites and siltstones are finely laminated and alternate in units 2' thick.

Interbedded sequence of green-weathering siltstones; argillaceous dolomite in beds 1" to 2" thick.
Green-brown-weathering very fine-grained argillite grading to silty dolomite; beds 1" to 2".
Green-weathering argillites and siltstones, with a few 4" beds of brown-green weathering dolomite, finely laminated; back 1" to 2".

Interbedded red and greyish-green-weathering siltstones and argillaceous siltstones alternating in units 2' thick.

Red-weathering siltstone; beds 4" to 1"; finely laminated.

Light grey-weathering, very fine-grained dolomite; beds 1" to 2".
Pale blue green dolomite; beds B (MALACHITE) stain across 2'.
Bleached, silty argillite; thinly bedded; salt casts; variable amount of bleaching.

Greyish red and light brown silty argillite; beds thin; ripple marks; salt casts; large pockets of chlorite and some bleaching along bedding.

Slightly more bleaching along discontinuous zones.

Greyish red and light brown silty argillite; beds thin; specular hematite; ripple marks and salt casts along bedding.

Light greenish grey, very sandy dolomite; greenish grey on fresh surfaces.

Greyish-orange to pale yellowish brown, weathering argillaceous dolomite; greenish grey on fresh surfaces; beds 3' to 6'.

CHALCOPYRITE widely disseminated and found in vugs with celestite.
Slightly more silty bleached argillite for 15'.

Bleached argillite correlative with unit at 750' of Part 1.
Reddish grey, silty argillite; thinly bedded with salt casts and ripple marks; with pockets of chlorite.
Bleached dolomitic argillite.
SECTION 12 - LOAF MOUNTAIN

Greenish grey bleached and baked argillite; CHALCOPYRITE.
Diorite sill; medium-grained; contains pink feldspar; pyrite.

Greenish grey, silty to sandy, friable argillaceous dolomite; green grey on fresh surfaces; beds 1/8" to 2".

Greyish-buff weathering argillaceous dolomite; dark greenish grey on fresh surfaces; beds 1/16" to 5"; salt casts along bedding.

Interbedded bleached argillites and greyish red silty argillites; beds 1/2" to 1"; fractured at close intervals giving rise to elongated fragments; has a tendency to be more reddish along partings and bleached within beds.

Greyish red dense argillite; beds thin; salt casts and ripple marks along bedding.