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T rue |254E|Ge ology|SylviaGrinne llL ake (south)|Baffin Island,Nunavut|St-Onge,M.R.,W e lle r,O.M.,Dyc k,B.J.,Rayne r,N.M.,Chad wic k T.,and L iikane,D.|False |False |T rue |1|2|Canad ian Ge osc ie nc e Map|254E|Ge ologic alSurve yof Canad a|GSC|NaturalRe sourc e sCanad a|Ope n File Map|2016-11E|Canad a-NunavutGe osc ie nc e Offic e |CNGO||

GSC ᑲᓇᑕᒥᓄᓇᓂᑦᖃᐅᔨᓴᓂᕐ ᒧᑦᓄᓇᙳ ᐊᖅ 254S•CNGO ᒪᑐᐃᖓ ᔪᖅ ᓄᓇᖑᐊᖅ 2016-11S

GSC ᑲᓇᑕᒥᓄᓇᓂᑦᖃᐅᔨᓴᓂᕐ ᒧᑦᓄᓇᙳ ᐊᖅ 254S•CNGO ᒪᑐᐃᖓ ᔪᖅ ᓄᓇᖑᐊᖅ 2016-11S

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ᓴᖅᑭᑎᑕᐅᒋᐊᕐ ᖓ ᖅᓯᒪᔪᑦ

ᑖᒃᑯᓂᖓ ᖃᐅᔨᓴᖅᑎᓄᑦ
ᐋᖅᑭᒋᐊᖅᑕᐅᓯᒪᖏ ᑦᑐᑦ.

ᑐᕌᒐᕆ ᔭᖏ ᑦᓄᓇᖑᐊ ᓕᐅᓂᕐᒧᑦᓂᒋᖓ ᓂ ᕿᑎ ᐊ ᓂ ᕿᑭᖅᑖᓗ ᒃ2015ᐱ ᐅ ᓯᑎ ᒋ ᐊ ᖅᑕᐅ ᓗ ᓂ ᐅᔭᖅᑲᓂᑦᖃᐅ ᔨᓴᓂᕐᒧᑦᖃᐅ ᔨᒪᔭᐅᔪᑦ
ᑎ ᑎ ᕋᖅᑕᐅᓯᒪᔪᓪ ᓗ ᑮᓇᐅ ᔭᓕᐅ ᕋ ᓱ ᐊ ᕈ ᑎ ᔅᓴᐅ ᔪᓐᓇᖅᑐᓂᑦᐃ ᖃᓗ ᐃ ᑦᖃᓂᒋᔭᖓ ᓂᑦ.ᓄᓇᖑᐊ ᑦᑕᑯᔅᓴᐅ ᑎ ᑦᑎ ᔪᑦᓇᒦᓐᓂᖏ ᑦᓄᓇᖏ ᑦ
ᖃᓄᐃ ᓕᖓ ᓂᖏ ᑦ, ᐱ ᖃᓯᐅ ᑎ ᓪ ᓗ ᑎ ᐊ ᔾᔨᒌᖏ ᑦᑐᑦ ᐅ ᔭᖅᑲᐃ ᑦ ᐊᒻᒪ ᓄᓇᐃ ᑦ ᑲᑎ ᓂᖏ ᑦ. ᓄᓇᒥᑦ ᖃᐅ ᔨᓴᕐᓂᖅ
ᐊᔾᔨᒌᖏ ᑐᖏ ᓐᓇᐅ ᒐᓗ ᐊ ᖅᑎ ᓪ ᓗ ᒋᑦ ᐊ ᕕᑦᑐᖅᓯᒪᔪᓕᒫᓂᑦ, ᓄᓇᖑᐊ ᓕᒫᑦ ᐱ ᑕᖃᖅᑎ ᑦᑎ ᔪᑦ ᐊ ᑐᖅᑕᐅ ᒐᔪᑦᑐᓂᑦ: ᐊ ᒥᐊᓖ ᑦ ᐊ ᒻᒪ
ᑎ ᑎ ᖅᑲᖏ ᑦᓇᓗ ᓇᐃ ᖅᓯᓪ ᓗ ᑎ ᖃᓄᐃ ᑦᑑᓂᖏ ᑦᐅᔭᖅᑲᐃ ᑦᓄᓇᐅ ᑉ ᖄᖓ ᓃᑦᑐᑦ,ᑎ ᑎ ᑯᑖᔅᓯᒪᔪᑦᑲᑯᔅᓴᐅ ᑎ ᑦᑎ ᓗ ᑎ ᖃᓄᐃ ᑦᑑᓂᖓ
ᐊᒻᒪ ᓇᒦᓐᓂᖓ ᐊ ᑦᑐᕐᕕᒋᔭᖓ ᐊ ᒻᒪ ᓄᓇᐅ ᑉ ᑭᓪ ᓕᖏ ᑦ,ᑎ ᑎ ᑲᓪ ᓚ ᔅᓯᒪᔪᑦ ᑕᑯᔅᓴᐅᑎ ᑦᑎ ᓗ ᑎ ᑦ ᓇᒧᑦ ᖁᓕᕇ ᑦᑐᑦ ᐅ ᕕᖓ ᒻᒪᖔ ᑕ,
ᓄᓇᖑᐊ ᕐᓗ ᓇᓗ ᓇᐃ ᒃᑯᑕᐃ ᑦᓇᓗ ᓇᐃ ᔭᐃ ᔪᑦᐊ ᒥᐊ ᖏ ᓐᓂᑦᐊ ᒻᒪᓇᓗ ᓇᐃ ᒃᑯᑕᖏ ᑦᐊ ᑐᖅᑕᐅᔪᑦ.

Indᑕᑯᔅᓴᐅ ᓂᕆ ᔭᖏ ᑦᓄᓇᖑᐊᓂᑦᐊ ᒥᐊ ᖏ ᑦ.ᐊ ᑐᓂ ᐊ ᒥᐊ ᖏ ᑦᑭᒡᒐᖅᑐᐃ ᔪᑦᐊ ᔾᔨᒌᖏ ᑦᑐᓂᑦᓄᓇᓂᑦᖃᐅ ᔨᓴᓂᕐᒧᑦᐊᕕᑦᑐᖅᓯᒪᔪᑦ
ᓄᓇᓂᑦᖃᐅ ᔨᓴᓂᕐᒧᑦᐊᕕᑦᑐᖅᓯᒪᔪᑦᐊ ᖏ ᓂᕆ ᔭᖓ ᓇᓗ ᓇᐃ ᖅᑕᐅ ᓯᒪᔪᒥᑦᐅ ᔭᖅᑲᐃ ᑦᖃᓄᐃ ᑦᑑᓂᖏ ᓐᓄᑦᐊ ᕐᕌᒍᖏ ᓪ ᓗ.ᓄᓇᓂᑦ
ᖃᐅ ᔨᓴᓂᕐᒧᑦ ᐊ ᕕᑦᑐᖅᓯᒪᔪᑦ ᐊ ᑎ ᖃᐅ ᖅᑐᑦ ᐊ ᒻᒪ ᓇᓗ ᓇᐃ ᖅᑕᐅᓯᒪᔪᑦ ᐅ ᔭᖅᑲᓂᑦ ᖃᐅ ᔨᓴᖅᑎ ᓄᑦ ᓄᓇᖑᐊ ᓕᐅ ᖅᐸᑦᑐᑦ,
ᑐᓐᖓ ᓂᐊ ᖅᑐᑎ ᑦ ᑕᑯᔭᐅᓂᖏ ᓐᓄᑦ ᐅ ᔭᖅᑲᐃ ᑦ ᖃᐅ ᔨᓴᕐᕕᐅᔪᓂᑦ ᐊ ᒻᒪ ᖃᐅ ᔨᓴᖅᑕᐅ ᓂᖏ ᓐᓄᒧᑦ ᐅᔭᖅᑲᐃ ᑦ ᐊᕐᕌᒍᖏ ᓐᓂᑦ.
ᐃ ᓚ ᒋ ᐊᕐᓗ ᒍ ᐊ ᒥᐊ ᓕᓐᓄᑦ,ᐊ ᑐᓂ ᐊ ᕕᑦᑐᖅᓯᒪᔪᑦ ᑎ ᑎ ᖅᑲᖃᐅ ᖅᑎ ᑕᐅ ᔪᑦ ᐊ ᔾᔨᐅ ᖏ ᑦᑐᓂᑦ ᓄᓇᖑᐊ ᒥᑦ.ᓇᓄᓇᐃ ᒃᑯᑕᕆ ᒐᔪᑦᑕᖏ ᑦ
ᐊᖏ ᔪᑦ ᑎ ᑎ ᖅᑲᐃ ᑦᑭᖑᓕᕆ ᓪ ᓗ ᓂᒋᑦ ᐊ ᖏ ᔫᑎ ᒃᑲᓐᓃᑦ ᑎ ᑎ ᖅᑲᐃ ᑦ ᒥᑭᔫᑕᐅᓂᖅᓴᐅ ᓗ ᑎ ᓘ ᓐᓃᑦ.ᓯᕗᓪ ᓕᖅᐹᖅ ᑎ ᑎ ᖅᑲᖅ ᐊ ᖏ ᔪᖅ
ᑭᒡᒐᖅᑐᐃ ᔪᖅ ᐊ ᕐᕌᒍᖓ ᓂᑦᓄᓇᒥᖃᐅ ᔨᓴᓂᕐᒧᑦᐊ ᕕᑦᑐᖅᓯᒪᔪᖅ. ᓄᓇᓂᑦᖃᐅ ᔨᓴᖅᑕᐅ ᔪᑦᐊᑎ ᖃᐅ ᖅᑐᑦᐊ ᒻᒪᓇᓗ ᓇᐃ ᔭᖅᑕᐅ ᓯᒪᔪᑦ
ᐅᔭᖅᑲᓂᑦᖃᐅ ᔨᓴᖅᑎ ᒧᑦᓄᓇᖑᐊ ᓕᐅ ᖃᑦᑕᖅᑐᖅ,ᑐᓐᖓ ᓂᖃᖅᑐᑎ ᑦᐅᔭᖅᑲᓂᑦᑕᑯᔭᖏ ᓐᓂᑦᖃᐅ ᔨᓴᕐᕕᐅ ᔪᒥᑦᖃᐅ ᔨᓴᖅᑕᐅ ᓪ ᓗ ᑎ ᓪ ᓗ
ᐊᕐᕌᒍᖏ ᑦ ᐅ ᔭᖅᑲᐃ ᑦ. ᐃ ᓚ ᒋᐊ ᕐᓗ ᒍ ᐊ ᒥᐊ ᖏ ᓐᓄᑦ, ᖃᐅ ᔨᓴᕐᕕᐅ ᔪᑦ ᐊ ᕕᑦᑐᖅᓯᒪᔪᑦ ᑎ ᑎ ᖅᑲᖃᖅᑎ ᑕᐅ ᔪᑦ ᐊ ᔾᔨᐅ ᖏ ᑦᑐᒥᑦ
ᓇᓗ ᓇᐃ ᒃᑯᖁᑕᖏ ᑦ. ᓇᓗ ᓇᐃ ᒃᑯᑕᕆ ᒐᔪᑦᑕᖏ ᑦ ᐊ ᖏ ᔪᑦ ᑎ ᑎ ᖅᑲᐃ ᑦ ᑭᖑᓂᐊ ᒍ ᐊ ᑕᐅᓯᖅ ᒪᕐᕉᓘ ᓐᓃᒃ ᐊ ᖏ ᔪᑦ ᑎ ᑎ ᖅᑲᐃ ᑦ
ᒥᑭᓂᖅᓴᐃ ᓘ ᓐᓃᑦᑎ ᑎ ᖅᑲᐃ ᑦ.ᓯᕗᓪ ᓕᖅᐹᖅ ᐊ ᖏ ᔪᖅ ᑎ ᑎ ᖅᑲᖅ ᓇᓗ ᓇᐃ ᖅᓯᔪᖅ ᐊᕐᕌᖓ ᐅ ᔭᖅᑲᓂᑦᖃᐅ ᔨᓴᕐᕕᐅᔪᖅ.ᐅ ᔭᖅᑲᓂᑦ
ᖃᐅ ᔨᓴᖅᑏᑦᐊ ᒡᒍᑐᖅᓯᒪᔭᖏ ᑦ ᓯᓚ ᕐᔪᐊ ᖅ ᖃᓄᐃ ᓘ ᖃᑦᑕᕐᓂᖓ ᐱ ᓕᐊ ᖏ ᓐᓃᑦᑐᓂᑦ ᐊ ᕐᕌᒍᖏ ᓐᓂᑦ. ᓇᓗ ᓇᐃ ᒃᑯᑕᓕᒫᑦ ᐊ ᖏ ᔪᓂᑦ
ᑎ ᑎ ᖅᑲᓂᑦᐱ ᒋ ᐊ ᕐᓂᖃᖅᑐᑦᓇᓗ ᓇᐃ ᖅᓯᔪᑦᐊ ᕐᕌᒍᖏ ᑦᐱ ᓕᐊ ᖏ ᓐᓃᑦᑐᓂᑦ:ᐆ ᑦᑑᑎ ᒋᓗ ᒍ { (Paleo p ro tero zo ic–2500ᑎ ᑭᑦᑐᒍ
1600ᒥᓕᐊ ᓐᐊ ᕐᕌᒍᐃ ᑦ),+ (Neo p ro tero zo ic–1000ᑎ ᑭᑦᑐᒍ 541ᒥᓕᐊ ᓐᐊᕐᕌᒍᐃ ᑦ),ᐅᕝᕙᓘ ᓐᓃᑦ / (Qu aternary–2.58
ᒥᓕᐊ ᓐ ᐊ ᕐᕌᒍᐃ ᑦᐅ ᓪ ᓗ ᒥᒧᑦᑎ ᑭᑦᑐᒍ).ᐊ ᖏ ᔪᑦᑎ ᑎ ᖅᑲᐃ ᑦᑭᖑᓂᐊ ᓃᑦᑐᑦᓇᓗ ᓇᐃ ᖅᓯᔪᑦ ᐊᑎ ᖓ ᐊᕕᑦᑐᖅᓯᒪᔪᖅ,ᐱ ᑕᖃᕈ ᓂ.
ᒥᑭᓂᖅᓴᐃ ᑦ ᑎ ᑎ ᖅᑲᐃ ᑦ ᓇᓗ ᓇᐃ ᖅᓯᔪᑦᖃᓄᐃ ᑦᑑᓂᖏ ᑦ ᐅ ᔭᖅᑲᐃ ᑦ.ᓲᕐᓗ ᐅᔭᖅᑲᐃ ᑦ ᐊ ᑎ ᖃᖅᑐᑦ ᐊ ᕕᑦᑐᖅᓯᒪᔪᓂᑦ ᕿᑭᖅᑖᓗ ᒻᒥ
metas edimentary ᐅ ᔭᖅᑲᐅ ᔪᑦ ᑕᐃ ᔭᐅ ᔪᑦ "ᑭᒻᒥᕈᒻᒥ ᐱ ᓕᕆ ᔪᑦ".ᑕᐃ ᒪᐃ ᓐᓂᖓ ᓄᑦ {LHq ᓄᓇᖑᐊ ᒥᑦ ᓇᓗ ᓇᐃ ᒃᑯᑕᐅᒐᔭᖅᑐᖅ
ᑭᒻᒥᕈᒻᒧᑦᐱ ᓕᕆ ᔪᓄᑦᐅ ᔭᖅᑲᖅ qu artzite(ᓄᓇᒨᖅᓯᔪᑦ Paleo p ro tero zo ic−ᒥᑦ).ᐊᔾᔨᐸᓗ ᐊᓂᑦ,+d ᓇᓗ ᓇᐃ ᒃᑯᑕᐅ ᒐᔭᖅᑐᖅ
ᐊᑎ ᖃᖅᑎ ᑕᐅ ᖏ ᑦᑐᓄᑦᐊ ᕕᑦᑐᖅᓯᒪᔪᓄᑦᐅ ᔭᖅᑲᐃ ᑦdiabas eᐃ ᓕᓯᒪᔪᑦNeo p ro tero zo ic−ᖑᑎ ᓪ ᓗ ᒍ.

Indᒪᕐᕉᒃ ᐊ ᔾᔨᒌᖏ ᑦᑐᑦ ᐅ ᔭᖅᑲᓖ ᑦ ᓴᓂᓕᕇ ᑦᑐᑎ ᑦ ᑕᐃ ᔭᐃ ᔪᑦ ᑲᑎ ᓐᓂᖓ,ᐊ ᒻᒪ ᑖᓐᓇ ᓇᓗ ᓇᐃ ᖅᑕᐅ ᔪᖅ ᐊ ᔾᔨᒋᖏ ᑕᖏ ᓐᓂᑦ
ᑎ ᑎ ᖅᑕᐅ ᓯᒪᔪᓂᑦᓄᓇᖑᐊ ᒥᑦ. ᐊ ᔾᔨᒋᖏ ᓂᕆ ᔭᖏ ᓐᓄᑦᓅᑦᑕᐅ ᓯᒪᔪᑦ ᓴᓂᑦᑎ ᐊ ᖓ ᓄᑦ ᐃ ᒻᒥᓂᒃ ᑕᐃ ᒪᐃ ᓚ ᐅ ᖅᑎ ᓪ ᓗ ᒋᑦ ᑲᑎ ᓐᓂᖓ

ᐊᕕᒃᓯᒪᓂᖓ ᒍᑦ ᑲᑎ ᓐᓂᖃᖅᑐᖅ. ᐅᔭᖅᑲᐅ ᔪᖅ ᐊ ᓯᐊᓄᑦ ᐊ ᔭᐅ ᖅᑕᐅ ᒍᓂ (ᓲᕐᓗ ᐅ ᔭᖅᑲᐃ ᑦ granite ᐊᑦᑐᖃᑦᑕᐅᑎ ᒋᓪ ᓗ ᓂᐅ ᒃ
s edimentary s trata)ᐊ ᑦᑐᕐᓂᕆ ᔭᖏ ᑦ ᐊ ᐅ ᓚ ᔾᔭᐃ ᓂᖃᖅᑐᑦ ᐊᑦᑐᕐᓂᖓ. ᐊ ᓯᐊ ᑦᑕᐅ ᖅ ᑕᑯᔅᓴᐅ ᑎ ᑕᐅ ᔪᑦ ᑐᑭᓕᐊ ᖅᑐᑦ ᓄᓇᓄᑦ
ᓄᓇᖑᐊ ᑦᐱ ᕆ ᒍᓐᓇᖅᑐᖅ.ᐃ ᓚ ᒋ ᐊ ᕐᓗ ᒍ ᓅᑦᑕᐅ ᓂᖏ ᓐᓄᑦᑲᑎ ᓐᓂᖏ ᓐᓄᑦ,ᓄᓇᓕᕆ ᓂᕐᒧᑦᐊ ᕕᑦᑐᖅᓯᒪᔪᑦᓂᐅᖓ ᓂᖃᕈᓐᓇᖅᑐᑦ
ᓴᖑᖓ ᓂᖃᒻᒪᕆ ᓪ ᓗ ᑎ ᑦ. ᑐᑭᓕᐊ ᖅᑐᑦ ᑎ ᑎ ᕋᖅᑕᐅᓯᒪᔪᑦ ᖄᖓ ᒎᖅᑐᓘ ᓐᓃᑦᑕᐃ ᔭᐅ ᔪᖅ ᐊ ᑦᑐᕐᕕᖏ ᑦ. ᑲᑎ ᕝᕕᓪ ᓗ ᐊ ᕆ ᔭᖓ ᓂᑦ,
ᑕᑯᔅᓴᐅ ᑎ ᑕᐅ ᔪᖅ ᑎ ᑎ ᑯᑖᔅᓯᒪᓪ ᓗ ᓂ,ᑭᓯᐊ ᓂ ᓇᓗ ᓇᐃ ᖅᓯᒪᑦᑎ ᐊ ᖏ ᑉᐸᑦ,ᑕᑯᔅᓴᐅᑎ ᑕᐅ ᔪᑦᑎ ᑎ ᖅᑕᐅ ᑲᐃ ᓐᓇᖃᑦᑕᖅᑐᓂ ᑐᑭᓕᐊᖅᑐᓂᑦ.
ᑎ ᑎ ᑯᑖᔅᓯᒪᔪᑦ ᓄᓇᖑᐊ ᒥᑦ ᐊ ᓯᔾᔨᖅᑕᐅ ᔪᓐᓇᖅᑐᖅ ᐊ ᓯᖏ ᓐᓄᑦ ᓇᓗ ᓇᐃ ᒃᑯᑕᓄᑦ ᑎ ᑎ ᑯᑖᔅᓯᒪᔪᒥᑦ (ᐱ ᖓ ᓱ ᓂᑦ ᓴᓂᕋ ᓕᒃ,ᒥᑭᔪᑦ
ᑎ ᑎ ᖅᓯᒪᔪᑦ,ᖃᔾᔪᓐᖑᐊ ᑦ,ᐊ ᓯᖏ ᓪ ᓗ)ᑐᑭᓯᒋᐊ ᕈ ᑎ ᖃᖅᑎ ᑦᑎ ᓂᖅᓴᐅ ᔪᑦᑎ ᑎ ᑯᑖᔅᓯᒪᔪᒧᑦ.ᐆ ᑦᑑᑎ ᒋᓗ ᒍ,ᑲᑎ ᓐᓂᖏ ᑦᐱ ᖓ ᓱ ᑦᓄᓇᐃ ᑦ
ᑕᑯᔅᓴᐅ ᑎ ᑦᑎ ᔪᖅ ᓴᓂᕋᖓ ᐱ ᖓ ᓱ ᓂᑦᓴᓂᕋᓕᓐᓂᑦᖁᕝᕙᕆ ᐊ ᖅᓯᒪᔪᖅ ᓴᓂᕌᓅᖅᑐᓂ ᐱ ᖓ ᓱ ᓂᑦᓴᓂᕋ ᓕᒻᒨᖏ ᑦᑐᖅ.ᐊ ᔾᔨᒌᖏ ᑦᑐᓕᒫᑦ
ᓇᓗ ᓇᐃ ᒃᑯᑕᐃ ᑦᑎ ᑎ ᖅᓯᒪᔪᓂᑦᓇᓗ ᓇᐃ ᔭᖅᓯᒪᔪᑦᓄᓇᖑᐊ ᑉᓇᓗ ᓇᐃ ᒃᑯᑕᖏ ᑦ.ᐊ ᑎ ᖃᖅᑐᑦᖁᓕᕇ ᑦᑐᑦᑕᑯᔅᓴᐅ ᑎ ᑕᐅᔪᑦᓄᓇᖑᐊ ᒥᑦ

ᑎ ᑎ ᑲᓪ ᓚ ᔅᓯᒪᔪᑦᕿᑭᖅᑕᑲᓪ ᓚ ᒥᓪ ᓗ ᓇᓗ ᓇᐃ ᒃᑯᑕᖓ.ᓇᓗ ᓇᐃ ᒃᑯᑕᐃ ᑦᐱ ᖓ ᓲᓕᖅᑲᖓ ᔪᑦ:ᑎ ᑎ ᑯᑖᔅᓯᒪᔪᖅ,ᓇᑦᑐᓂ ᑎ ᑎ ᖅᓯᒪᔪᖅ,
ᐊᒻᒪᓗ ᓈᓴᐅ ᑎ ᖓ.ᑎ ᑎ ᑯᑖᔅᓯᒪᔪᖅ ᑕᐃ ᔭᐃ ᔪᖅ ᑎ ᑎ ᖅᑕᐅᑐᐃ ᓐᓇᖅᑐᖅ,ᐊ ᒻᒪ ᑕᑯᔅᓴᐅ ᑎ ᑦᑎ ᔪᖅ ᖁᓕᕇ ᑦᑐᑦᓄᓇᒧᑦᓇᓕᒧᓐᓂᖃᖅᑐᑦ.
ᓅᔅᓯᒪᔪᓂᑦ ᓄᓇᐅᑉ ᖄᖓ ᓃᑦᑐᓂᑦ ᑐᕌ ᕐᓂᖃᖅᑐᖅ ᓄᓇᒧᑦ ᓇᓕᒧᓐᓂᖃᖅᑐᓂ,ᖃᓄᐃ ᑦᑐᑐᐃ ᓐᓇᐃ ᑦ ᐅ ᕕᖓ ᔪᓂᑦ ᑎ ᑎ ᖅᓯᒪᔪᑦ
ᑐᕌᕐᓂᖃᖅᑐᑦ ᓄᓇᒧᑦ ᓇᓕᒧᓐᓂᖃᖅᑐᑎ ᑦ (ᐃ ᓱ ᒪᒋᓐᖑᐊ ᑲᐃ ᓐᓇᕈᒃ ᐱ ᓱ ᑦᑎ ᓪ ᓗ ᑎ ᑦ ᖃᖅᑲᔮ ᑉ ᓴᓂᕌᒍᑦ,ᐅ ᐸᒐᔅᓴᐅ ᓂᐊ ᓴᑐᐃ ᓐᓇᖅᑐᖅ
ᖁᒻᒧᐊ ᒐᓂ ᐊ ᒻᒧᐊ ᒐᓂᓘ ᓐᓃᑦ,ᑭᓯᐊ ᓂ ᒪᑭᑕᑦᑎ ᐊᖅᑐᖅ).ᓇᐃ ᑦᑐᑦ ᑎ ᑎ ᖅᓯᒪᔪᑦ ᑕᐃ ᔭᐅ ᔪᑦ ᑎ ᑎ ᑲᓪ ᓚ ᔅᓯᒪᔪᑦ ᑐᑭᓕᐊ ᖅᑐᑦ,ᐊ ᒻᒪ
ᑕᑯᔅᓴᐅ ᑎ ᑦᑎ ᔪᖅ ᖁᓕᕇ ᑦᑐᑦᖃᓄᑎ ᒋ ᓯᕕᖓ ᒻᒪᖔ ᑕ.ᓈᓴᐅ ᑎ ᖓ ᑕᐃ ᔭᐃ ᔪᑦᑎ ᑎ ᑲᓪ ᓚ ᔅᓯᒪᔪᖅ,ᐊ ᒻᒪ ᑕᑯᔅᓴᐅᑎ ᑦᑎ ᔪᖅ ᖁᓕᕇ ᑦᑐᑦ
ᖃᓄᑎ ᒋ ᓯᕕᖓ ᒻᒪᖔ ᑕ, ᑎ ᕇ ᔅᑯᑎ ᒍᑦ, ᒪᓂᕋᑦᑐᒥᑦ. ᖁᑦᑎ ᓂᖅᓴᐅ ᑎ ᓪ ᓗ ᒍ ᓈᓴᐅ ᑎ ᖓ, ᓯᕕᖓ ᓂᖅᓴᐅ ᔪᖅ ᖁᓕᕇ ᓐᓂᖏ ᑦ,
ᑎ ᑎ ᖅᑕᐅ ᑐᐃ ᓐᓇᖅᓯᒪᔪᑦ ᓇᓗ ᓇᐃ ᒃᑕᐃ ᑦ ᐋᖅᑭᒋ ᐊ ᖅᑕᐅ ᔪᓐᓇᖅᑐᑦ ᑐᑭᓯᒋ ᐊᕈ ᑎ ᖃᖅᑎ ᑦᑎ ᑲᓂᕐᓂᐊ ᕐᒪᑦ ᓯᕕᖓ ᔪᒥᑦ ᖁᓕᕇ ᑦᑐᓂᑦ
ᑎ ᑎ ᑯᑖᔅᓯᒪᔪᑦᑕᐃ ᒪᐃ ᒍᓐᓇᑎ ᓪ ᓗ ᒋᑦ,ᐊ ᒻᒪᑖᒃᑯᐊ ᐊ ᓯᔾᔨᕈ ᑎ ᐅ ᔪᓐᓇᓗ ᓇᐃ ᔭᖅᓯᒪᔪᑦᓄᓇᖑᐊ ᑉᓇᓗ ᓇᐃ ᒃᑯᑕᖏ ᓐᓂ.

Indᓄᓇᒧᑦᓄᓇᖑᐊ ᓕᒫᑦᑎ ᑎ ᕋᖅᓯᒪᔪᖃᐅ ᖅᑐᑦᑕᐃ ᔭᐅ ᔪᑦᓄᓇᖑᐊ ᒧᑦᓇᓗ ᓇᐃ ᒃᑯᑕᐃ ᑦ,ᓇᓗ ᓇᐃ ᒃᑯᑕᖏ ᓐᓂ,ᐊ ᒥᓕᒫᖏ ᑦ ᐊ ᒻᒪ
ᓇᓗ ᓇᐃ ᒃᑯᑕᖏ ᑦ ᑕᑯᔅᓴᐅ ᑎ ᑕᐅ ᔪᑦ ᐊ ᒻᒪ ᓇᓗ ᓇᐃ ᔭᖅᑕᐅ ᓯᒪᓪ ᓗ ᑎ ᑦ.ᓄᓇᖑᐊ ᒧᑦ ᓇᓗ ᓇᐃ ᒃᑯᑕᐃ ᑦ ᐱ ᒋᐊ ᖅᓯᒪᔪᑦ ᑎ ᑎ ᕋ ᖅᓯᒪᔪᓂᑦ

ᑕᑯᔅᓴᐅ ᑎ ᑦᑎ ᔪᑦᐊ ᒥᐊ ᖓ ᑎ ᑎ ᖅᑲᖓ ᓗ ᐊ ᑐᓂ ᓄᓇᖑᐊ ᓕᒫᓂᑦ,ᐱ ᒋ ᐊ ᖅᓯᒪᓪ ᓗ ᓂ ᖁᓛ ᓂ ᐅ ᔭᖅᑲᖃᕈ ᕋ ᑖᕐᓂᖅᐹᖑᔪᑦ,ᐊ ᑎ ᖓ ᑦᑕᐅ ᑦ
ᐃ ᓛ ᒃᑰ ᖓ ᓂᖓ (ᐱ ᑕᖃᕈᓂ) ᐊᒻᒪ ᓇᓗ ᓇᐃ ᔭᖅᓯᒪᒐᓛ ᓐᓂᖓ ᖃᓄᐃ ᑦᑑᓂᖏ ᑦ ᐅᔭᖅᑲᐃ ᑦ ᐊ ᕕᑦᑐᖅᓯᒪᔪᒥᑦ, ᐊ ᔾᔨᒌᖏ ᑦᑐᑦ
ᖃᓄᐃ ᑦᑑᓂᖏ ᑦᓴᑎ ᑎ ᑯᑖᔅᓯᒪᔪᓂᑦᓄᓇᖑᐊᒥᑦᓇᓗ ᓇᐃ ᔭᖅᑕᐅ ᓯᒪᔪᑦ,ᐊ ᒻᒪ ᐊ ᔾᔨᒌᖏ ᑦᑐᓕᒫᑦᑎ ᑎ ᑲᓪ ᓚ ᔅᓯᒪᔪᑦᑐᑭᓕᐊᖅᑐᑎ ᑦᐊ ᒻᒪ
ᑕᖅᓴᐅ ᔮ ᖅᑐᑦ ᓇᓗ ᓇᐃ ᒃᑯᑕᐃ ᑦ. ᓄᓇᖑᐊ ᒧᑦ ᓇᓗ ᓇᐃ ᔭᖅᓯᒪᓂᖏ ᑦ ᓇᓗ ᓇᐃ ᔭᐃ ᓯᒪᓂᐊ ᕐᒥᔪᑦ ᖃᓄᐃ ᑦᑐᑐᐃ ᓐᓇᕐᓂᑦ ᐊ ᓯᖏ ᓐᓂᑦ
ᓄᓇᒧᑦᓇᓗ ᓇᐃ ᒃᑕᐃ ᑦᐊ ᑐᖅᑕᐅᔪᓂᑦᓄᓇᖑᐊ ᒥᑦ(ᐆ ᑦᑑᑎ ᒋ ᓗ ᒍ ᓇᒦᓐᓂᖏ ᑦᐅ ᔭᖅᑲᐃ ᑦᓇᓂᔭᐅᔪᑦ,ᓇᒦᓐᓂᖏ ᑦᓴᕕᕋ ᔭᑦᑎ ᐊ ᕙᐃ ᑦ,
ᐊᒻᒪ ᐊ ᓯᖏ ᑦ ᓄᓇᖓ ᓂᑦ ᑕᑯᔅᓴᐅᑎ ᑦᑎ ᔪᑦ ᐱ ᒻᒪᕆ ᐅ ᔪᓐᓇᖅᑐᑦ ᐊ ᕕᑦᑐᖅᓯᒪᔪᒧᑦ ᑎ ᑎ ᕋ ᖅᑕᐅ ᓯᒪᔪᑦ ᓄᓇᖑᐊᒥᑦ). ᐱ −ᔪᑎ ᒋ ᓪ ᓗ ᒍ
ᓄᓇᓕᕆ ᓂᐅ ᔪᖅ ᐊ ᕕᑦᑐᖅᓯᒪᔪᓕᒫᓂᑦᐊ ᔾᔨᒌᖏ ᑐᐃ ᓐᓇᐃ ᑦ,ᓄᓇᖑᐊ ᒧᑦᓇᓗ ᓇᐃ ᒃᑯᑕᐃ ᑦᐱ ᒻᒪᕆ ᐅ ᔪᖅ ᑐᑭᓯᑦᑎ ᐊ ᕐᓗ ᒍ ᓄᓇᖑᐊ ᖅ.

Indᖃᐅ ᔨᒪᕐᓂᐅᔪᖅ ᐊ ᒻᒪᓄᓇᖑᐊ ᓕᐅ ᕐᓂᖅ ᓂᒋᖓ ᓂ−ᕿᑎ ᐊ ᓂ ᕿᑭᖅᑖᓗ ᒃᓴᖅᑭᑎ ᑦᑎ ᓚ ᐅᖅᑐᑦᓇᒦᓐᓂᖏ ᓐᓂᑦmetas edimentary
ᐅᔭᖅᑲᐃ ᑦ(ᑭᒻᒥᕈᒻᒥ ᐱ ᓕᕆ ᔪᑦ;ᕗᓴᖑᐊ ᑦᐃ ᓛ ᒃᑰ ᖓ ᔪᑦ {LHq,{LHc,{LHs,{LHp;ᐳ ᑑᕆ ᔩᑦ;ᐊ ᒡᒍᖅᓯᒪᔪᓂᑦ {PL)ᐊ ᓯᐊ ᓄᑦ
ᐊᑦᑐᐊ ᓂᖃᕈ ᓐᓇᖅᑐᖅ ᐅ ᕝᕙᓘ ᓐᓃᑦᐅ ᔭᖅᑲᖃᖃᐅ ᖏ ᓪ ᓗ ᓂ MetaInco gnitaPenins u la−ᒥᑦ.ᐊ ᒥᓱ ᒐᓚ ᐃ ᑦᑲᑎ ᓐᖓ ᐅ ᖅᑐᑦmagmatic
(s ills)ᑎ ᑎ ᕋ ᖅᑕᐅ ᓚ ᐅ ᖅᑐᑦ ᐊ ᒻᒪ ᖃᐅ ᔨᓴᖅᑕᓪ ᓚ ᑐᐊ ᕆ ᔭᐅ ᓂᐊᖅᑐᑦ (ᓄᓇᖑᐊ ᑦ ᐊ ᒡᒍᖅᓯᒪᔪᑦ {LHu, {LHm, {LHd). ᑖᒃᑯᐊ
ᑮᓇᐅ ᔭᓕᐅ ᕋ ᓱ ᐊ ᕈ ᑎ ᔅᓴᐅᔪᓐᓇᕐᓂᖏ ᓐᓄᑦ ᐱ ᒻᒪᕆ ᐅ ᔪᑦ ᐃ ᓗ ᓕᖃᐅ ᕐᒪᑕ ᓴᕕᕋ ᔭᔅᓴᓖ ᑦ ᐅ ᔭᕋᓐᓂᐊ ᕋ ᔅᓴᐅᔪᓐᓇᖅᑐᑦ (s u lp h ides),ᐅ ᒻᒪ
ᓴᖅᑭᖃᑦᑕᕐᓂᖏ ᑦ ᓇᓗ ᓇᐃ ᖅᓯᔪᓐᓇᖅᑐᑦ ᐱ ᑕᖃᕐᓂᐊ ᓂᑦ ᑮᓇᐅ ᔭᓕᐅ ᕋ ᓱ ᐊ ᕈ ᑎ ᔅᓴᐅ ᔪᓐᓇᖅᑐᓂᑦ ᓴᕕ?ᔭᖃᕐᓂᖓ ᓂᑦ. ᐱ ᖓ ᓱ ᑦ
ᐅᔭᖅᑲᐃ ᑦᐊ ᔾᔨᒌᖏ ᑦᑐᓂᑦ ᐃ ᓗ ᓕᖃᐅ ᖅᑐᑦ ᐊ ᒻᒪ ᒪᕐᕈᐊ ᑎ ᖅᓯᒪᔪᖅ ᐆᓇᖅᓯᓂᒥᓂᖓ ᖃᐅ ᔨᔭᐅ ᓚ ᐅᖅᑐᑦ. ᑕᐃ ᒪᓐᓇᐃ ᑦᑐᑦ
ᑲᑎ ᓐᖓ ᓂᖓ ᒍᑦ ᐊᐅ ᓚ ᔾᔭᖃᑦᑕᐅᑎ ᒍᓐᓇᖅᑐᑦ ᐊ ᔾᔨᐸᓗ ᐊ ᓂᑦ ᓄᓇ ᓴᔪᑉᐱ ᓚ ᓐᓂᕆ ᓚ ᐅ ᖅᑕᖓ 1800 ᒥᓕᐊ ᓐ ᐊ ᕐᕌᒍᓕᖅᑐᑦ ᐊ ᒻᒪ
ᑎ ᑎ ᕋᖅᑕᐅᓯ,ᒪᔪᖅ ᑕᒪᒃᑭᓐᓂ ᐊ ᓯᐊ ᓂᑦᑕᐅ ᖅ ᕿᑭᖅᑖᓗ ᒻᒥᓘ ᓐᓃᑦ ᐊ ᒻᒪ ᐅ ᐊ ᓐᓇᖓ ᓂᑦ ᑯᕋ ᐃ ᒃ. ᑖᒃᑯᐊ ᖃᐅ ᔨᓴᕈᑕᐅ ᔪᑦ
ᐊᑐᖅᑕᐅ ᓂᐊ ᖅᑐᑦ ᐊ ᔾᔨᒌᓐᖑᐊ ᖅᑎ ᑕᐅ ᓗ ᑎ ᑦ ᐊ ᒻᒪ ᐱ ᐅ ᓯᑎ ᐱ ᐊ ᖅᑕᐅ ᓗ ᓂ ᐊ ᑐᖅᑕᐅᓂᖏ ᑦ ᑕᑯᔅᓴᐅ ᑎ ᑦᑎ ᔪᑦ ᐅ ᐊ ᑦᑎ ᐊ ᕈ ᒻᒪᕆ ᐊ ᓗ ᓂᑦ
ᓄᓇᖓ ᐊ ᓯᔾᔨᐸᓪ ᓕᐊ ᓂᖓ ᓄᓇᕗᑦ.

ᖃᓄᖅ ᐅᖃᓕᒫᕋᔅᓴᐅᒻᒪᖔ ᑦᓄᓇᖑᐊᖅ

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ᓄᓇᓂ ᖃᐅ ᔨᓴᖅᑎ M.R.St-Onge,O.M.W e lle r,B.J.Dyc k,N.M.Rayne r,T.Chad wic k,ᐊᒻᒪ
D.L iikane,ᓄᓇᙳ ᐊ ᓕᕆ ᓂᕐᒧᑦᖃᐅ ᔨᓴᖅᑏᑦᑲᓇᑕᒥ;S.Noble -Nowd luk,T.Milton,ᐊᒻᒪ
T.Rowe,ᓄᓇᕗᑦᒐᕙᒪᒃᑯᑦ,2015

ᓄᓇᒥᖃᐅ ᔨᓴᕐᓂᕐᒧᓇᓗ ᓇᐃ ᔭᐃ ᔪᖅ M.R.St-Onge ᐊᒻᒪᑎ ᑎ ᕋᖅᑕᐅ ᒃᑲᓐᓂᖅᑐᑦᐆᒧᖓ
M.R.St-Onge ᐊᒻᒪO.M.W e lle r,2015

ᓄᓇᒥᖃᐅ ᔨᓴᓂᕐᒧᑦᒪᓕᓐᓂᐊ ᖅᑐᖅ ᐱ ᓕᕆ ᐊᒧᑦᖁᐊ ᖑᐃ ᓐᓇᖅᑐᓂᑦᑐᑭᓯᒋ ᐊ ᕈ ᑎ ᓂᑦ,ᕚᓯᖓ 2.6

ᓄᓇᖑᐊ ᓕᐊ ᖅᑏᑦA.Morin,A.Ford,C.Gilbe rt,L.Robe rtson,G.Bulle r,ᐊᒻᒪR.Bue nviaje

ᓄᓇᙳ ᐊ ᓕᕆ ᔪᖅ N.Cô té

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ISBN978-0-660-05091-1
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ᑲᓇᑕᒥ ᓄᓇᖑᐊᓕᕆᔨᒃᑯᑦᖃᐅᔨᒋᐊᕐᕕᖏ ᑦᐃᓚᒍᑕᖏ ᓪᓗ ᐊᑦᑐᐊᓂᖃᖅᑐᓄᑦ
ᓴᖅᑭᖅᑎᑕᐅᔪᑦᓄᓇᒥ ᖃᐅᔨᓴᓂᕐᒧᑦᑲᓇᑕᒥᓄᓇᖑᐊᑦ

© ᑯᐃ ᓐᑭᒡᒐᖅᑐᐃ ᓪ ᓗ ᓂ ᑲᓇᑕᒥ,
ᑭᒡᒐᖅᑐᐃ ᔨᖃᖅᖢᓂ
ᐊᑐᒃᑲᓐᓂᕈᓐᓇᖅᑐᓕᕆ ᓂᕐᒧᑦᒥᓂᔅᑕᒥ,2016

ᑖᓐᓇ ᓄᓇᖑᐊ ᖅ ᓇᓗ ᓇᐃ ᔭᐃ ᔪᖅ ᖃᐅ ᔨᓴᖅᑎ ᓪ ᓗ ᒋᑦ
ᖃᐅ ᔨᔭᐅᔪᑦ Sylvia GrinnellLake (s o u th) ᓄᓇᖑᐊ ᖅ
8−ᓂᑦ ᐱ ᓇᓱ ᐊ ᕈ ᓯᕐᓂᑦ ᐊ ᕕᑦᑐᖅᓯᒪᔪᒥᑦ ᐊ ᒻᒪ
ᖃᐅ ᔨᓴᕐᓂᖃᓗ ᐊ ᓚ ᐅ ᖅᑐᑦ ᖁᐊ ᖑᐃ ᓐᓇᖅᑐᒥᑦ
ᓄᓇᖑᐊ ᓕᐅ ᓂᕐᒥᑦᐱ ᖓ ᓐᓇᖓ ᓂ ᓴᐅᒥᒻᒥᑦ. 2015−ᒥ
ᖃᐅ ᔨᓴᕐᓂᐅ ᔪᖅ ᐱ ᔭᕇ ᖅᓯᓚ ᐅ ᖅᑐᖅ ᐊ ᕐᕌᒍᓂᑦ ᐊ ᕙᑎ ᓂᑦ
ᐱ ᓕᕆ ᐊ ᖑᔪᖅ ᐅ ᓪ ᓗ ᒥᒨᖓ ᓕᖅᑎ ᑕᐅ ᓪ ᓗ ᑎ
ᓄᓇᖑᐊ ᑦᕿᑭᖅᑖᓗ ᒻᒥ ᓂᒋᓕᒫᖓ ᓂᑦ 70°N.
ᖁᐊ ᖑᐃ ᓐᓇᖅᑐᖅ ᐃ ᓗ ᓕᖃᕐᓂᕆ ᔭᖓ Paleo p ro tero zo ic
metap lu to nic s u ite, ᐊ ᔾᔨᒌᖏ ᓐᓂᖃᖅᑐᑦ ᐃ ᓗ ᓕᖏ ᑦ
ᐱ ᒋ ᐊ ᖅᑐᓂ gabbro ᑎ ᑭᑦᑐᒍ s yeno granite,
ᖁᓕᕉᕇ ᖃᑦᑕᐅ ᑎ ᓪ ᓗ ᑎ
ᖃᓄᐃ ᓘ ᖃᑦᑕᐅ ᑎ ᓂᖏ ᑦᓇᓗ ᓇᐃ ᖅᓯᔪᖅ ᐱ ᕙᓪ ᓕᐊ ᓂᖓ

maficᑎ ᑭᑦᑐᒍ s ilicicmagmatis m.ᒫᓐᓇᐅ ᔪᒥᑦᑕᑯᔅᓴᐅ ᔪᖅ
ᖁᑦᑎ ᓂᖅᓴᖓ ᒍ amp h ibo lite ᐊ ᑎ ᓐᓂᖓ ᓄᑦ granu lite
facies metamo rp h icᖃᓄᐃ ᓐᓂᕆ ᔭᖏ ᑦᖁᓕᕇ ᖃᑦᑕᐅ ᑎ ᔪᑦ
ᒪᑭᑕᑦᑎ ᐊ ᕈᓐᓇᕐᓂᖓ ᑭᓪ ᓕᖃᖅᑎ ᑦᑎ ᔪᖅ magnetite ᐊ ᒻᒪ
o rth o p yro xene, ᒪᓕᓐᓂᖃᖅᑐᖅ ᓇᓕᒧᑦᑎ ᑦᑎ ᓂᕐᒦᑦᑐᓂᑦ
ᐊᔾᔨᓐᖑᐊ ᑦ ᐊ ᒻᒪ ᐊ ᕕᑦᑐᖅᓯᒪᔪᒥᑦᖃᖓ ᑕᓲᒃᑯᑦ
ᓂᐱ ᖅᑲᕐᓇᖃᕐᓂᖓ ᓄᑦ ᑐᑭᓯᒋᐊ ᕈ ᑏᑦ. Metas edimentary
ᐅᔭᖅᑲᐃ ᑦ,ᐱ ᖃᓯᐅ ᑎ ᓪ ᓗ ᑎ qu artzite,p elite,ᑐᓐᓅᔭᖅ,ᐊ ᒻᒪ
ᐊᕕᑦᑐᖅ metagreywacke, ᑕᑯᔅᓴᐅᑎ ᑕᐅ ᔪᑦ ᐊ ᒻᒪ
ᐊᕕᑦᑐᖅᓯᒪᔪᓂᑦ ᐊ ᑯᓐᓂᖏ ᓐᓂ ᐃ ᓗ ᐊ ᓂᓗ p lu to nic
ᐃ ᓗ ᓕᓖ ᑦ.ᖃᐅ ᔨᓴᖅᑕᐅ ᓂᕆ ᔭᖓ ‘ᑕᕐᕋ ᐃ ᑦᑐᖅ’ᓄᓇᓕᕆ ᓂᕐᒧᑦ
ᓇᓗ ᓇᐃ ᖅᓯᔪᖅ metas edimentary ᐅ ᔭᖅᑲᐃ ᑦ
ᑲᑎ ᓐᖓ ᓂᖃᕈᓐᓇᖅᑐᑦ ᕿᑎ ᖓ ᓃᑦᑐᓂ Paleo p ro tero zo ic
ᑭᒻᒥᕈᒻᒥ ᐱ ᓕᕆ ᔪᑦ ᓂᒋᖓ ᓂ ᐊ ᒻᒪ ᐳ ᑑᕆ ᔩᑦᐅ ᐊ ᓐᓇᖓ ᓂ.
ᒪᕐᕉᒃ bas altic ᐅ ᔭᖅᑲᐃ ᑦ ᐊ ᒥᓲᔪᑦ ᐊ ᒻᒪᐃ ᒃᑲᑦᑐᒨᖓ ᔪᑦ
Ordo vician limes to ne ᖁᓕᕇ ᖃᑦᑕᐅ ᑎ ᔪᑦ ᐊ ᒻᒪ ᖁᓛ ᒍᑦ
Paleo p ro tero zo icᑲᑎ ᓐᖓ ᔪᓂᑦ.

ᐃᓱᒪᒋᔭᐅᔪᑦ
T hism ap sum m arize sthe fie ld obse rvationsfor the
SylviaGrinne ll L ake (south)m ap are afollowing e ight
we e ksof re gional and targe te d be d roc k m apping on
we ste rn Hall Pe ninsula.T he 2015 fie ld c am paign
c om ple te s a two-d e c ad e m ission to upd ate m ap
c ove rage for the whole of Baffin Island south of latitud e
70°N.T he be d roc k isd om inate d by aPale oprote rozoic
m e taplutonic suite,ranging in c om position from gabbro
to sye nogranite,with c rossc utting re lationsind ic ating a
progre ssion from m afic to silic ic m agm atism.Pre vailing
uppe r am phibolite to lowe r granulite fac ie sm e tam orphic
c ond itionsove rlap the stability lim itsof m agne tite and
orthopyroxe ne,whic h is c onsiste ntwith e q uilibrium
phase d iagram s and re gional ae rom agne tic d ata.
Me tase d im e ntary roc ks, inc lud ing q uartzite, pe lite,
m arble,and m e tagre ywac ke,are pre se ntassc re e ns
and e nc lave sbe twe e n and within plutonic bod ie s.An
e xam ination of the ‘ghost’stratigraphysugge ststhatthe
m e tase d im e ntary roc ks c an be c orre late d with the
m id d le Pale oprote rozoic L ake Harbour Group in the
south and Piling Group in the north.T wo basaltic d yke
swarm s and shallowly d ipping Ord ovic ian lim e stone
re spe c tive ly c rossc utand ove rly the Pale oprote rozoic
units.

Ab strac t

ᑐᑭᓕᐅᕆ ᔭᐅ ᔪᖅ ᖃᓪ ᓗ ᓈᑎ ᑐ ᐃ ᓄᒃᑎ ᑐᒧᑦW intranslation;ᑐᑭᓕᐅ ᕆ ᓯᒪᔪᖅ ᓱ ᓕ
ᓈᒻᒪᒃᑲᓗ ᐊ ᕆ ᐊ ᒃᓴᖅ ᐅ ᖃᐅᓯᐅ ᓯᒪᙱ ᑦᑐᖅ.

ᐅᓇ ᓄᓇᙳ ᐊᖅ ᐃ ᓚ ᒋ ᔭᖓ ᓄᓇᐅ ᑉᖃᓄᐃ ᓕᖓ ᓂᖓ ᓂᑦᓄᓇᙳ ᐊ ᓕᐅᕐᓂᕐᒧᑦᐅ ᑯᓄᖓ
ᐆᒻᒪᖁᑎ ᓕᕆ ᔨᒃᑯᑦᐊ ᒻᒪᐅ ᔭᕋ ᐅ ᔭᓕᕆ ᔨᒃᑯᓄᑦ(GEM)ᐱ ᓕᕆ ᐊ ᖑᔪᒥᑦᕿᑭᖅᑖᓗ ᒻᒥᑐᑭᒧᐊ ᖅᑎ ᑕᐅ ᓪ ᓗ ᓂ
ᓄᓇᙳ ᐊ ᓕᕆ ᓂᕐᒧᑦᖃᐅ ᔨᓴᖅᑏᑦᑲᓇᑕᒥ(GSC)ᐱ ᓕᕆ ᖃᑎ ᖃᖅᖢᑎ ᑦᑲᓇᑕᒥᓄᓇᕗᓪ ᓗ ᓄᓇᐅ ᑉ
ᖄᖓ ᓃᑦᑐᓂ ᖃᐅ ᔨᓴᖅᑐᓕᕆ ᔨᒃᑯᑦᑎ ᑎ ᕋ ᕐᕕᖓ ᓂ (CNGO),ᓄᓇᕗᒻᒥᓯᓚ ᑦᑐᖅᓴᕐᕕᒃ,ᑲᐅᕈ ᑕᓐ
ᓯᓚ ᑦᑐᖅᓴᕐᕕᒃᔪᐊ ᖅ,ᓯᓚ ᑦᑐᖅᓴᕐᕕᒃᔪᐊ ᖓ ᐋᒃᕗᑦ,ᐊ ᒻᒪᓗ ᓄᓇᕗᑦᒐᕙᒪᒃᑯᑦ.

ᐃ ᖅᑲᓇᐃ ᔭᖅᑐᓕᕆ ᓂᕐᒧᑦᐃ ᑲᔪᖅᑐᑦᓯᓚ ᕐᔪᐊ ᒥᐅ ᑭᐅ ᑕᖅᑐᖓ ᓂ ᐱ ᓕᕆ ᐊ ᖅ ᐃ ᓚ ᒋ ᓪ ᓗ ᓂᐅ ᒃᑐᕌᒐᖏ ᓐᓂᑦ
ᓴᖅᑭᔮ ᖅᑎ ᑎ ᒃᑲᓂᕐᓗ ᑎ ᑦᖃᐅ ᔨᓴᓂᕐᒧᑦᖃᐅ ᔨᓴᖅᑎ ᓄᑦᑲᓇᑕᐅ ᑉᐅᑭᐅ ᑕᖅᑐᖓ ᓂ.PCSP05615

ᓄᓇᙳ ᐊ ᖅ ᖃᓄᐃ ᓕᖓ ᓂᖓ ᓄᑦU nive rsalT ransve rse Me rc ator,ᐊᕕᒃᑐᖅᓯᒪᓂᒃᑯᑦ19.
North Am e ric an Datum 1983

ᓄᓇᙳ ᐊ ᑉᐆ ᒃᑐᕋᖅᑕᐅᓯᒪᓂᖓ ᒍᑦ1:250000ᓄᓇᒥᐅ ᑕᓕᕆ ᔨᒃᑯᓐᓂᑦᑲᓇᑕᒥ,ᐋᖅᑭᒋ ᐊ ᖅᑕᐅ ᓯᒪᓪ ᓗ ᑎ ᑦ.
ᖁᕝᕙᓯᓐᓂᖓ ᒦᑕᓂᑦᖁᓛ ᒍᑦᑐᑭᖃᖅᑐᖅ ᐃ ᒪᐅ ᑉᓇᐅ ᒃᑰ ᕐᓂᖓ ᑕ ᖁᕝᕙᓯᖕᓂᖓ

ᑐᑭᑲᖅᑐᖅ ᓂᐱ ᓐᓇᖅᑐᖃᕐᓂᖓ ᑕ ᒥᑭᒡᓕᕙᓪ ᓕᐊᓂᖓ 2016,28°41'W,ᒥᒃᖠᕙᓪ ᓕᐊ ᓪ ᓗ ᓂ 24.9'ᐊᕐᕌᒍᑕᒫᑦ.
ᓇᓃᓐᓂᖏ ᓐᓄᑦᖃᐅ ᔨᓇᓱ ᖕᓂᖅ ᐊ ᔾᔨᒌᖏ ᑦᑐᑦᐅ ᕙᙵ 28°08'W ᐱ ᖓ ᖕᓇᖅ ᐅ ᕙᓂ ᓂᒋ ᐊ ᑕ
ᐱ ᖓ ᖕᓇᖅᐸᓯᐊ ᓂ ᑎ ᕆ ᖅᑯᐊᓂᑦᐅ ᕗᖓ 29°11'W ᐱ ᖓ ᖕᓇᖅ ᐅ ᕙᓂ ᐅ ᐊᖕᓇᖓ ᑕ
ᑲᓇᖕᓇᖅᐸᓯᐊ ᑕ ᑎ ᕆ ᖅᑯᐊ ᓂ ᓄᓇᙳ ᐊ ᕐᒥᑦ.

ᐅᓇ ᓄᓇᙳ ᐊᖅ ᐊ ᑐᖅᑕᐅ ᔭᕆ ᐊ ᖃᙱ ᑦᑐᖅ ᑕᒻᒪᕇ ᒃᑯᑎ ᐅ ᓗ ᓂ ᓄᓇᑰ ᖅᑐᓂᑦ.

ᐊᔾᔨᓐᖑᐊ ᖅ ᐊ ᑎ ᖓ:ᐊ ᖏ ᔪᖅ ᒪᓃᑦᑐᓂ m e tase d im e ntary ᕿᑎ ᐊᓂ Pale oprote rozoic L ake Harbour
Group.ᑲᔪᕈᔪᐃ ᑦᓄᓇᐅᑉᐃ ᑭᖓ ᓂ ᐅ ᔭᖅᑲᐃ ᑦᐊᒻᒪᓄᓇᐅ ᑉᐃ ᑭᖓ ᓂ ᐅ ᔭᖅᑲᐃ ᑦ(ᐊ ᑕᐅ ᓰᑦ{LHs)ᓯᕗᓂᐊ ᓂ
ᖃᖁᖅᑕᓂ ᐅᔭᖅᑲᓂᑦq uartzite (ᐊ ᑕᐅ ᓰᑦ{LHq)ᑐᓄᐊ ᓂ.ᐅᔭᕋᑦᑎ ᐊᖅ ᓂᐅᕕᐊ ᔅᓴᖅ.ᑕᑯᔅᓴᐅᓂᖓ ᓂᒋᖓ ᑕ
ᑲᓇᓐᓇᖓ ᓄᑦ,ᐃ ᖃᓗ ᐃ ᑦᑰ ᖓ,ᕿᑭᖅᑖᓗ ᒃ,ᓄᓇᕗᑦ.ᐊ ᔾᔨᓕᐅ ᕆ ᔪᖅ M.R.St-Onge.2015-121

ᓄᓇᙳ ᐊ ᓕᕆ ᓂᕐᒧᑦᖃᐅ ᔨᓴᖅᑏᑦᑲᓇᑕᒥᑐᙵ ᓱ ᒃᑎ ᑦᑎ ᔪᑦᐋᕿᒋᐊ ᕈ ᑎ ᓂᑦᐃ ᓚ ᒋ ᐊᕈ ᑎ ᓂᒡᓘ ᓐᓃᑦ
ᑐᑭᓯᒋ ᐊ ᒃᑲᓐᓂᕈ ᑎ ᓂ ᐊ ᑐᖃᑦᑕᖅᑐᓄᑦ.

ᑐᑭᓯᒋ ᐊ ᕈ ᑎ ᖏ ᑦᐱ ᖃᓯᐅ ᔾᔨᔪᓐᓇᖅᑐᑦᑕᑯᔭᐅ ᒃᑲᓂᖅᑐᓂᑦᑕᑯᔅᓴᐅ ᑎ ᑕᐅᖏ ᑦᑐᓂᑦᓄᓇᙳ ᐊᕐᒥᑦ.
ᑕᑯᓗ ᒍ ᑎ ᑎ ᕋ ᖅᓯᒪᔪᑦᐃ ᓚ ᓕᐅᔾᔭᐅ ᓯᒪᔪᑦᑖᒃᑯᓇᓂ ᑲᑎ ᕐᓱ ᒐᕐᓂ.
ᓇᓗ ᓇᐃ ᔭᖅᓯᒪᒃᑲᓂᕐᓂᖏ ᑦᑎ ᑎ ᕋ ᖅᓯᒪᔪᑦ,ᖃᐅ ᔨᒋ ᐊ ᕐᕖᑦ,ᐊ ᒻᒪᐊ ᔾᔨᓐᖑᐊ ᑦᓄᓇᖑᐊ ᒦᑦᑐᖅ
ᑐᑭᓯᒋ ᐊ ᕈ ᑎ ᖏ ᓐᓂᑦᑎ ᑎ ᕋᖅᓯᒪᔪᓂᑦ.

ᑖᓐᓇ ᓴᖅᑭᖅᑎ ᑕᐅᔪᖅ ᐊ ᑭᖃᖏ ᑐᑦᖃᕋ ᓴᐅ ᔭᒃᑯᑦᐊ ᑐᐃ ᓐᓇᐅ ᔪᑦᐅ ᑯᑎ ᒎᓇ
GEOSCAN(http://ge osc an.nrc an.gc.c a/)
ᑲᓇᑕ ᓄᓇᕗᒻᒥᓗ ᐅ ᔭᖅᑲᓂᑦᖃᐅ ᔨᓴᖅᑏᑦᑎ ᑎ ᕋ ᕐᕕᖓ (http://c ngo.c a/).

26-D

26-K 26-I

26-B

26-L 26-J

26-F 26-G 26-H

26-C

26-E

26-A

CGM258S

CGM262S

CGM259S

CGM256S

CGM260S

CGM253S

CGM254S

CGM255S CGM257S
O FM2016-14S

O FM2016-15S

O FM2016-19S

O FM2016-11S

O FM2016-10S

O FM2016-16S

O FM2016-17S

O FM2016-13S

O FM2016-12S

CGM
261S
O FM
2016-18S

ᓄᓇᙳ ᐊᓕᕆᓂᕐ ᒧᑦᖃᐅᔨᓴᖅᑏᑦᑲᓇᑕᒥ ᓄᓇᓂ ᖃᐅᔨᓴᕐᓂᖅ SY LVIAGRINNELLLAKE(SO UTH)
ᕿᑭᖅᑖᓗ ᒃ,ᓄᓇᕗᑦ
1:100000

ᐱᒋᐊᕐ ᓂᖓ ᐱᒋᐊᕐ ᓂᖓ ᐱᒋᐊᕐ ᓂᖓ ᐱᒋᐊᕐ ᓂᖓ ᐱᒋᐊᕐ ᓂᖓ ᐱᒋᐊᕐ ᓂᖓ ᐱᒋᐊᕐ ᓂᖓ ᐱᒋᐊᕐ ᓂᖓ

ᐱᒋᐊᕐ ᓂᖓ ᐱᒋᐊᕐ ᓂᖓ ᐱᒋᐊᕐ ᓂᖓ ᐱᒋᐊᕐ ᓂᖓ ᐱᒋᐊᕐ ᓂᖓ ᐱᒋᐊᕐ ᓂᖓ ᐱᒋᐊᕐ ᓂᖓ ᐱᒋᐊᕐ ᓂᖓ ᐱᒋᐊᕐ ᓂᖓ ᐱᒋᐊᕐ ᓂᖓ

ᑲᓇᑕᒥᐅᔭᖅᑲᓂᑦᖃᐅᔨᓴᓂᕐ ᒧᑦᓄᓇᖑᐊᑦ

ᑎᑎᕋᖅᑐᑦ:M.R.St-O nge,O.M.W eller,B.J.Dy c k,N.M.Ray ner,T.Chad w ic k,
ᐊᒻᒪ D.Liikane

St-Onge,M.R.,W e lle r,O.M.,Dyc k,B.J.,Rayne r,N.M.,Chad wic k T.,
ᐊᒻᒪL iikane,D.,2016.ᓄᓇᓂ ᖃᐅ ᔨᓴᕐᓂᖅ,SylviaGrinne llL ake
(south),ᕿᑭᖅᑖᓗ ᒃ,ᓄᓇᕗᑦ;ᓄᓇᙳ ᐊ ᓕᕆ ᓂᕐᒧᑦᖃᐅ ᔨᓴᖅᑏᑦᑲᓇᑕᒥ,
ᑲᓇᑕᒥᓄᓇᓂᑦᖃᐅ ᔨᓴᓂᕐᒧᑦᓄᓇᙳ ᐊ ᖅ 254S(ᐱ ᒋ ᐊ ᕐᓂᖓ);
ᓄᓇᕗᓪ ᓗ ᐅᔭᖅᑲᓂᑦᖃᐅ ᔨᓴᖅᑏᑦᑎ ᑎ ᕋ ᕐᕕᖓ,ᒪᑐᐃ ᖓ ᔪᖅ ᓄᓇᖑᐊ ᖅ
2016-11S,ᐊ ᖏ ᓂᖓ 1:100000.d oi:10.4095/298757

ᐊᑐᓕᖁᔭᐅᔪᑦᐅᖃᖅᑕᐅᓯᒪᔪᑦᖃᐅᔨᒋᐊᕐᕖᓘᓐᓃᑦ

ᓄᓇᙳ ᐊᓕᕆᓂᕐ ᒧᑦᖃᐅᔨᓴᖅᑏᑦᑲᓇᑕᒥ

ᑲᓇᑕᒥᓄᓇᓂᑦᖃᐅᔨᓴᓂᕐ ᒧᑦᓄᓇᙳ ᐊᖅ 254S
ᓄᓇᕗᓪᓗ ᐅᔭᖅᑲᓂᑦᖃᐅᔨᓴᖅᑏᑦᑎᑎᕋᕐ ᕕᖓ

ᒪᑐᐃᖓ ᔪᖅ ᓄᓇᖑᐊᖅ 2016-11S
ᓄᓇᓂ ᖃᐅᔨᓴᕐᓂᖅ

SY LVIAGRINNELL

LAKE(SO UTH)
ᕿᑭᖅᑖᓗ ᒃ,ᓄᓇᕗᑦ
1:100000

ᓄᓇᙳ ᐊᓕᕆᓂᕐ ᒧᑦᖃᐅᔨᓴᖅᑏᑦᑲᓇᑕᒥ

ᑲᓇᑕᒥᓄᓇᓂᑦᖃᐅᔨᓴᓂᕐᒧᑦᓄᓇᙳ ᐊᖅ 254S
ᓄᓇᕗᓪᓗ ᐅᔭᖅᑲᓂᑦᖃᐅᔨᓴᖅᑏᑦᑎᑎᕋᕐ ᕕᖓ

ᒪᑐᐃᖓ ᔪᖅ ᓄᓇᖑᐊᖅ 2016-11S
ᓄᓇᓂ ᖃᐅᔨᓴᕐᓂᖅ

SY LVIAGRINNELLLAKE(SO UTH)
ᕿᑭᖅᑖᓗ ᒃ,ᓄᓇᕗᑦ

Ge ologic alc ontac t

Approxim ate

Ge ologic alc ontac t,d e positional-unc onform able

Approxim ate

Norm alfault;solid c irc le ind ic ate sd ownthrown sid e

Approxim ate

Obliq ue -slip fault,norm al,infe rre d

Sinistralslip

De xtralslip

Foliation form line

30

40

20

30

25

10

20

25

10

ᕿᕐᓂᖅᑕᐃ ᑦᓇᓗ ᓇᐃ ᒃᑯᑎ ᒋ ᔭᐅ ᔪᑦᓄᓇᙳ ᐊ ᕐᒥᓴᕿᑎ ᑦᑎ ᓯᒪᕗᑦᐃ ᓂᒋ ᔭᐅ ᔪᒥᑦ.ᓯᐊ ᕐᓇᐃ ᑦ
ᓇᓗ ᓇᐃ ᒃᑯᑏᑦᐅ ᑯᓂᖓ ᐆ ᒃᑐᕋ ᐅ ᑎ ᒍᑎ ᕕᓂᕐᓄᑦᓴᕿᔮ ᖅᑎ ᑕᐅᔪᓐᓇᙱ ᑦᑐᓄᑦᑕᕝᕙᓂ
ᓄᓇᙳ ᐊ ᕐᒥ;ᐃ ᓚ ᖃᖅᑐᑦᑕᒪᐃ ᓐᓂᑦᓴᓇᕕᐅᓯᒪᔪᓂᑦᐊᒻᒪᐃ ᓚ ᖏ ᓐᓂ 2015ᓴᓇᕝᕕᐅ ᓂᑯᓂᑦ.

Be d d ing,inc line d

Foliation,horizontal

Foliation,inc line d

Foliation,ve rtic al

Frac ture,inc line d

Gne issosity,inc line d

Mine ralline ation

Mullions

Rod d ing

Fold hinge,antic line

Fold hinge,m inor S

Antiform,d e fine d
f2

f3

Antiform,ove rturne d,d e fine d
f2

Synform,d e fine d
f2

f3

Synform,ove rturne d,d e fine d
f2

f3

Station
Fie ld work 2015

L e gac y

ᖃᓄᖅᐅᖃᓕᒫᕋᔅᓴᐅᒻᒪᖔ ᑕ ᓇᓗᓇᐃᒃᑯᑕᓖ ᑦ
ᓇᓗ ᓇᐃ ᒃᑯᑕᐃ ᑦᐊ ᑐᖅᑕᐅ ᒐᔪᑦᑐᑦCGM253S,CGM254S,CGM255S,CGM256S,CGM257S,
CGM258S,CGM259S,CGM260S,CGM261S,ᐊ ᒻᒪCGM262S.ᐊ ᒥᐊ ᓖ ᑦᓇᓗ ᓇᐃ ᒃᑯᑕᐃ ᑦ
ᓇᓗ ᓇᐃ ᖅᓯᔪᑦᓄᓇᖑᐊᒥᑕᑯᔅᓴᐅ ᔪᑦᑕᕝᕙᓂ ᓄᓇᖑᐊ ᒥ.ᐊ ᕐᕌᒍᖏ ᑦ(Eon)ᓄᓇᖑᐊ ᒥᓇᓗ ᓇᐃ ᖅᑕᐅ ᔪᑦ
ᓯᕗᓪ ᓕᖅᐹᖓ ᓂ ᑎ ᑎ ᕋᖅᓯᒪᔪᓂᑦ,ᓲᕐᓗ { (Pale oprote rozoic),ᓄᓇᐃ ᑦᐊ ᕕᔅᓯᒪᓂᖓ ᒍᑦᓇᒦᓐᓂᖓ
ᐊᑎ ᖓ,ᐊ ᑐᕆ ᐊ ᖃᕈᓂ,ᑐᖏ ᓕᐊ ᓂ ᐱ ᖓ ᔪᖓ ᓐᓂᓗ ᑎ ᑎ ᕋᖅᓯᒪᔪᑦᓲᕐᓗ.L H(L ake Harbour Group),
ᐊᒻᒪᐅ ᔭᖅᑲᓂᑦᖃᐅ ᔨᓴᕐᓂᖅ ᒥᑭᓂᖅᓴᐅ ᔪᓂᑦᑎ ᑎ ᕋᖅᓯᒪᔪᑦ,ᓲᕐᓗ.m o (orthorpyroxe ne -be aring
m onzogranite).
QUATERNARY

Glac ialtill(bould e ryd iam ic ton);glac iofluvialsand and grave l;glac iolac ustrine,
glac iom arine and m arine sand,silt,and grave l;alluvialsand and grave l;talus
sc re e bould e ryd iam ic ton.

/

O RDO VICIAN

AMADJUAQFO RMATIO N:lim e stone;tan to d ark brown;nod ular be d d e d,

we athe rsm assive;argillac e ousto shalyin lowe r part. _A

NEO PRO TERO ZO IC

+d Diabase d yke (Franklin swarm).

MESO PRO TERO ZO IC–CENO ZO IC

4Cd Diabase d yke (Ke ke rtaluk swarm).

PALEO PRO TERO ZO IC

{sb Biotite sye nogranite;loc allywith K-fe ld spar m e gac rysts.

Biotite -garne t±orthopyroxe ne m onzogranite;loc allyc ontainsabund ant
inc lusionsof m e tase d im e ntaryroc k. {mg

Biotite -garne t±orthopyroxe ne m onzogranite;with K-fe ld spar m e gac rysts;
loc allyc ontainsabund antinc lusionsof m e tase d im e ntaryroc k. {mgk

{mb Biotite -m agne tite ±orthopyroxe ne m onzogranite;loc allywith K-fe ld spar m e gac rysts.

{mh Biotite -hornble nd e ±m agne tite ±orthopyroxe ne m onzogranite.

Orthopyroxe ne -biotite m onzogranite;c om m onlyc ontainsabund antinc lusions
of m e tase d im e ntaryroc k. {ms

{mo Orthopyroxe ne -biotite ±m agne tite m onzogranite;loc allywith K-fe ld spar m e gac rysts.

{go Orthopyroxe ne -hornble nd e -biotite ±m agne tite granod iorite.

Hornble nd e -orthopyroxe ne -c linopyroxe ne d iorite,le uc od iorite;loc allylaye re d
with c om positionsranging from d iorite to anorthosite. {d

Hornble nd e -c linopyroxe ne -m agne tite ±biotite gabbro;loc allylaye re d with
c om positionsranging from gabbro to anorthosite. {g

PILINGGRO UP

LO NGSTAFFBLUFFFO RMATIO N:psam m ite,se m ipe lite,arkosic and lithic
m e tawac ke;thin-to-thic k laye rs,lightto d ark gre y;m inor hornble nd e -be aring
c alc -silic ate laye rsand c onc re tions.

{PL

LAKEHARBO URGRO UP

FRO BISHERSUITE

W hite garne t-biotite le uc ogranite;c om m onlyinte rlaye re d with
m e tase d im e ntaryroc k. {LHw

{LHd Me tale uc od iorite.

{LHm Me tagabbro,am phibolite.

{LHu Me tape rid otite,m e tapyroxe nite,m e tad unite.

METASEDIMENTARY RO CKS

Diopsid e -phlogopite -spine l-apatite m arble,c alc -silic ate;m inor silic ic lastic
laye rs;white garne t-biotite le uc ogranite pod sand se am s. {LHc

{LHa Hornble nd e -garne t-biotite ±c linopyroxe ne am phibolite;loc allywith c arbonate se am s.

Garne t-sillim anite -biotite psam m ite;se m ipe lite,pe lite,q uartzite;m inor m arble
and c alc -silic ate;white garne t-biotite le uc ogranite pod sand se am s;
m e tad iorite to m e tale uc od iorite and laye re d m afic -ultram afic sills.

{LHp

Garne t-biotite se m ipe lite;pe lite,q uartzite;white garne t-biotite le uc ogranite
pod sand se am s. {LHs

Garne t-sillim anite q uartzite,fe ld spathic q uartzite;se m ipe lite,orthoq uartzite,
pe lite;m inor m arble and c alc -silic ate;white garne t-biotite le uc ogranite pod s
and se am s.

{LHq

ARCHEAN

Biotite -m agne tite m onzogranite,loc allyc rossc utbyc oarse -graine d to
pe gm atitc sye nogranite ve ins. 0mm

0mk K-fe ld spar m e gac rystic biotite m onzogranite to q uartzm onzonite.

0g Biotite ±hornble nd e granod iorite to m onzogranite.

Biotite ±hornble nd e tonalite to granod iorite;c om m onlyc ontainslaye rsof d iorite
to q uartzd iorite,and loc allyc ontainspod sand e nc lave sof m e tagabbro. 0t