

Energy, Mines and Resources • *Yukon Geological Survey*

YUKON

EXPLORATION & GEOLOGY

2006

- Mining & Exploration Overview
- Yukon Geological Survey
- Geological Fieldwork
- Property Descriptions



YUKON
EXPLORATION
& GEOLOGY
2006

Edited by
D.S. Emond, L.L. Lewis and L.H. Weston

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PHOTOGRAPHS

Front cover: Geoff Bradshaw (Yukon Geological Survey) strikes a 'hero pose' at the Crest Iron property, Yukon. Photo by Lara Lewis, YGS.

PREFACE

Yukon Exploration and Geology (YEG) continues to be the main publication of the Yukon Geological Survey (Energy, Mines and Resources, Yukon government). This is the 29th volume of the series.

YEG 2006 contains up-to-date information on mining and mineral exploration activity, studies by industry, and results of recent geological field studies. Information in this volume comes from prospectors, exploration and government geologists, mining companies and students who are willing to contribute to public geoscience for the benefit of the scientific community, general public, and mineral and petroleum industries of the Yukon. Their assistance and patience is sincerely appreciated.

This year our editing team consisted of Lara Lewis, Leyla Weston and myself. It is an honour to work with such a dedicated, efficient team. We have, however, greatly missed our co-editor from past years, Geoff Bradshaw, who was tragically killed in an accident this summer. He was a huge asset to our team in the past, but his spirit is still hugely inspiring for us (see Dedication).

We thank the Translation Bureau, Public Works and Government Services Canada for translating the French abstracts. Appreciation is also extended to Maurice Colpron of the Yukon Geological Survey (YGS) for his able assistance in the review of French translations of abstracts. We also thank all the geologists who contributed by critically reviewing YEG manuscripts: M. Allan, J. Bond, M. Burke, R. Friedman, S. Israel, C. Kearns, P. Lipovsky, G. Lowey, D. Murphy, L. Ootes, L. Pigage and B. Ward.

Wynne Krangle and Peter Long of K-L Services continue to provide excellent service in putting this production together, including editing suggestions, design of diagrams, volume layout, and working under the pressure of a tight deadline. Sherry Tyrner of the Queen's Printer once again ensured that the printing process went smoothly.

The 2006 volume has four parts. The first – Mineral Industry – includes overviews of hardrock and placer mining, development and exploration in the Territory as well as a summary of the Yukon Mining Incentives Program. The second part – Government – outlines the activities and organization of the Yukon Geological Survey, and includes announcements of the seventh Mining Land Use Reclamation Awards, the Robert E. Leckie Awards. The third part – Geological Fieldwork – contains reports describing regional mapping, and more detailed geoscience studies. The last part – Property Descriptions – is meant for submissions from the mineral industry on mineral occurrences and deposits.

We welcome any input or suggestions that you may have to improve future YEG publications. Please contact me at (867) 667-3203 or by e-mail at diane.emond@gov.yk.ca.

Diane Emond

PRÉFACE

Yukon Exploration and Geology (YEG) continue d'être la publication principale de la Commission géologique du Yukon (Énergie, Mines et Ressources, gouvernement du Yukon). Ce volume est le 29^e de la série.

YEG 2006 contient une mise à jour sur l'exploitation et l'exploration minières, les études réalisées par l'industrie et les résultats des travaux géologiques exécutés récemment sur le terrain. L'information est fournie par des prospecteurs, des géologues d'explorations et du gouvernement, des sociétés minières et des étudiants qui souhaitent en faire bénéficier la communauté scientifique, le grand public, ainsi que les industries minières et pétrolières du Yukon. Nous apprécions leur aide et leur dévouement.

Cette année les co-rédacteurs du YEG sont Lara Lewis, Leyla Weston et moi-même. C'est un honneur de travailler avec une équipe aussi dévouée et efficace. Nous manquons toutefois grandement la contribution de notre co-rédacteur des années précédentes, Geoff Bradshaw, qui fût tué tragiquement dans un accident au cours de l'été. Il était un grand atout au sein de notre équipe dans le passé, et son esprit continu de nous inspirer énormément (voir "Dédication").

Nous remercions le Bureau de la traduction, Travaux publics et Services gouvernementaux du Canada, pour la traduction française des résumés. Nous remercions également Maurice Colpron de la Commission géologique du Yukon pour son aide avec la révision des traductions françaises. Il faut aussi souligner la contribution de plusieurs géologues à la lecture critique des manuscrits, au cours de cette année; il s'agit notamment de M. Allan, J. Bond, M. Burke, R. Friedman, S. Israel, C. Kearns, P. Lipovsky, G. Lowey, D. Murphy, L. Ootes, L. Pigage and B. Ward.

Wynne Krangle et Peter Long de K-L Services ont une fois de plus fourni un excellent service de production, incluant des suggestions de révision, la conception de diagrammes, la mise en page et le respect d'échéances serrées. Sherry Tyrner de l'Imprimeur de la Reine a, pour sa part, veillé au bon déroulement de l'impression.

Le volume de 2006 comprend quatre parties. La première – Industrie minérale – renferme des survols sur l'exploitation, le développement et l'exploration minières des roches dures et des placers dans le territoire, de même qu'un résumé sur le Programme d'encouragement des activités minières du Yukon. La deuxième partie – Gouvernement – décrit dans les grandes lignes les activités et l'organisation de la Commission géologique du Yukon, et présente la sixième édition des prix Robert E. Leckie, récompensant les meilleurs travaux de remise en état des sites miniers. La troisième partie – Travaux géologiques sur le terrain – contient des rapports décrivant la cartographie régionale et des études géoscientifiques plus détaillées. La dernière partie – Descriptions des propriétés – vise les présentations des sociétés minières concernant des indices et des gîtes minéraux.

Pour tout commentaires ou suggestions afin d'améliorer les futures publications du YEG, vous être priés de communiquer avec moi par téléphone au (867) 667-3203 ou par courriel à l'adresse suivante : diane.emond@gov.yk.ca.

Diane Emond



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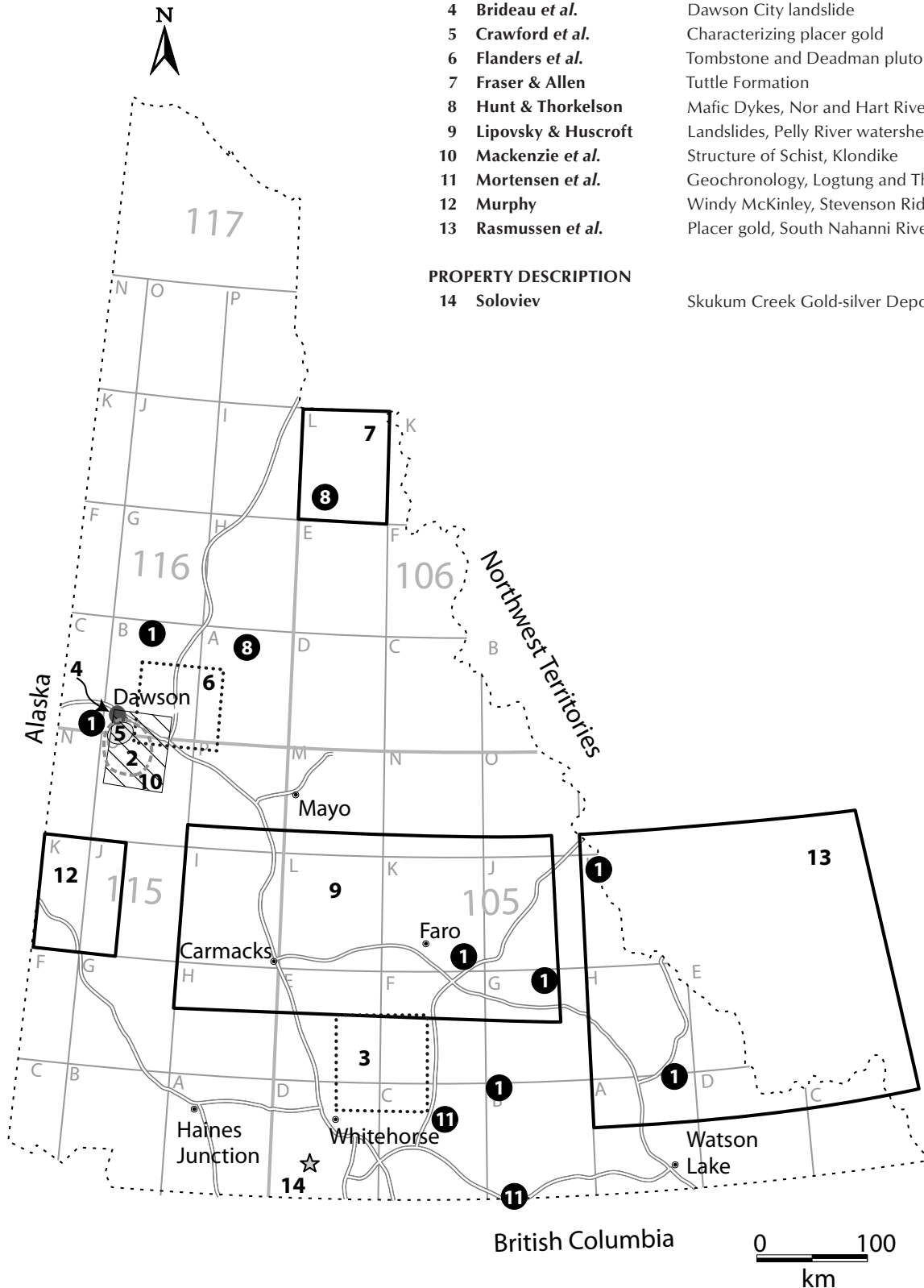
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GEOLOGICAL FIELDWORK

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Geoffrey Bradshaw

On July 22, 2006, the Yukon geological community suffered a great loss with the death of Geoff Bradshaw. Geoff joined the Yukon Geological Survey in the fall of 2003 after a number of years working in the private sector on both Yukon and international projects. He will be well remembered for his enthusiasm, work ethic and his unique ability to bring people together.



ANECDOTE FROM JULY 22, 2006, by Jeff Bond

It was a sunny Saturday afternoon. My family and I were fully immersed in the Dawson City Music Festival. For our afternoon entertainment, we chose to take in a workshop entitled, "I've Been Everywhere", featuring a host of musicians, most of whom I hadn't heard of before. We found a pew near the front, and took our seats as the musicians and technical staff prepared for the show. Around 2 p.m., the workshop host, John Samson of the Weakerthans, introduced himself, as well as the other musicians on stage. He opened the workshop with a song that I did not know the title of, but instantly recognized. My friend and co-worker, Geoff Bradshaw, had included the song on a CD compilation that he had given my wife, Leyla. The song had found its way into our car stereo and we had listened to it numerous times over the last several months. Even my five-year-old daughter, Sofia, recognized the tune and looked up at me when she first heard the recognizable sound coming from John's guitar. With big eyes and a smile, she said "Bradshaw". The four of us sat there and enjoyed the song and the feeling of coincidence that came with it.

The following day, we learned Geoff had died in the Wernecke Mountains while on traverse with co-worker and friend, Lara Lewis. An ordinary helicopter pickup had left us reeling in sorrow and disbelief. How could our friend leave us so soon? Since that day, it has been a difficult time for many. Geoff left behind many loved ones including his partner, Zoë, his parents, Jennifer and Gary, his brother, Mike, sister-in-law, Jana, and niece, Edelle, many close friends, and of course, his co-workers at the Yukon Geological Survey.

A couple of weeks after Geoff passed away, my wife reminded me where we had been at the time Geoff died. We had been sitting in St. Mary's church listening to John Samson's familiar song. She said the song is entitled "Left and Leaving". The meaning of this song seems open to interpretation, but the more I listen to it, the more I feel that it symbolizes the grief felt by those left behind. Some days seem ordinary enough, but when you least expect it, a moment becomes engraved in your memory. The important part of that day for me is that I can take comfort in knowing that the moment Geoff was leaving us, we were thinking of him ... with smiles on our faces.

We love you Geoff and miss you dearly. Thank you for the good times.

Jean François Pagé

*In loving memory of our friend,
Jean François Pagé, a beautiful person
whose spirit will live on.*

*À la douce mémoire de notre ami
Jean-François Pagé, un homme remarquable
qui restera dans nos cœurs.*



Jean François Pagé came north in the late 1990s and found a home in Whitehorse. With a ready smile, a love of adventure and a wide range of interests, J.F. made friends wherever he went, from Nunavut to the Yukon. In 2004, after completing a course at the Chamber of Mines, J.F. began working in mineral exploration with Aurora Geosciences. Starting as a field-hand and working his way up, he staked, cut line, soil sampled, ran geophysics and packed core at a score of projects across the Yukon and northern B.C. He loved the work – the travel, camps, hard days and adventure – and became an experienced field worker, valued wherever he worked. Whether building a sauna, whipping up a great meal from a bland food list or sparking a lively discussion on music or film, J.F. found a way to liven up every camp. He was a real coureur des bois – and he left his mark on the north. He died on the first day of his third season doing what he loved.

Jean François Pagé est arrivé dans le Nord à la fin des années 90 et a établi son domicile à Whitehorse. Toujours souriant, passionné d'aventure et s'intéressant à divers sujets, il s'est fait des amis à tous les endroits qu'il a visités, depuis le Nunavut jusqu'au Yukon. En 2004, il a commencé à travailler dans le domaine de l'exploration minière à Aurora Geosciences après avoir terminé un cours à la Chambre des mines. Il a entrepris sa carrière en tant qu'assistant sur le terrain et a gravi les échelons en posant des jalons, dégageant les tracés de prospection, prenant des échantillons de sol, menant des tests géophysiques et emballant des carottes dans le cadre de divers projets au Yukon et dans le Nord de la Colombie Britannique. Il adorait son travail – les déplacements, les camps, les journées difficiles et l'aventure – et il est devenu un homme de terrain expérimenté dont la présence était appréciée partout où il travaillait. Lorsqu'il construisait un sauna, préparait un excellent repas avec des aliments fades ou entamait une discussion animée concernant la musique ou le cinéma, il trouvait le moyen de rendre la vie de camp plus intéressante. Véritable coureur des bois, il a laissé son empreinte dans le Nord. Il est décédé le premier jour de sa troisième saison en faisant un travail qu'il aimait.

by Mike Power

**With a ready smile, a love of adventure and a wide range of interests,
J.F. made friends wherever he went, from Nunavut to the Yukon.**

**Son sourire facile, sa passion pour l'aventure et ses divers intérêts ont
permis à Jean-François de se faire des amis partout où il a voyagé,
depuis le Nunavut jusqu'au Yukon.**

