



# Hawthorne Gold's Cassiar Gold Camp 2009

Summer Work Experience at a  
Mining Camp



## Location

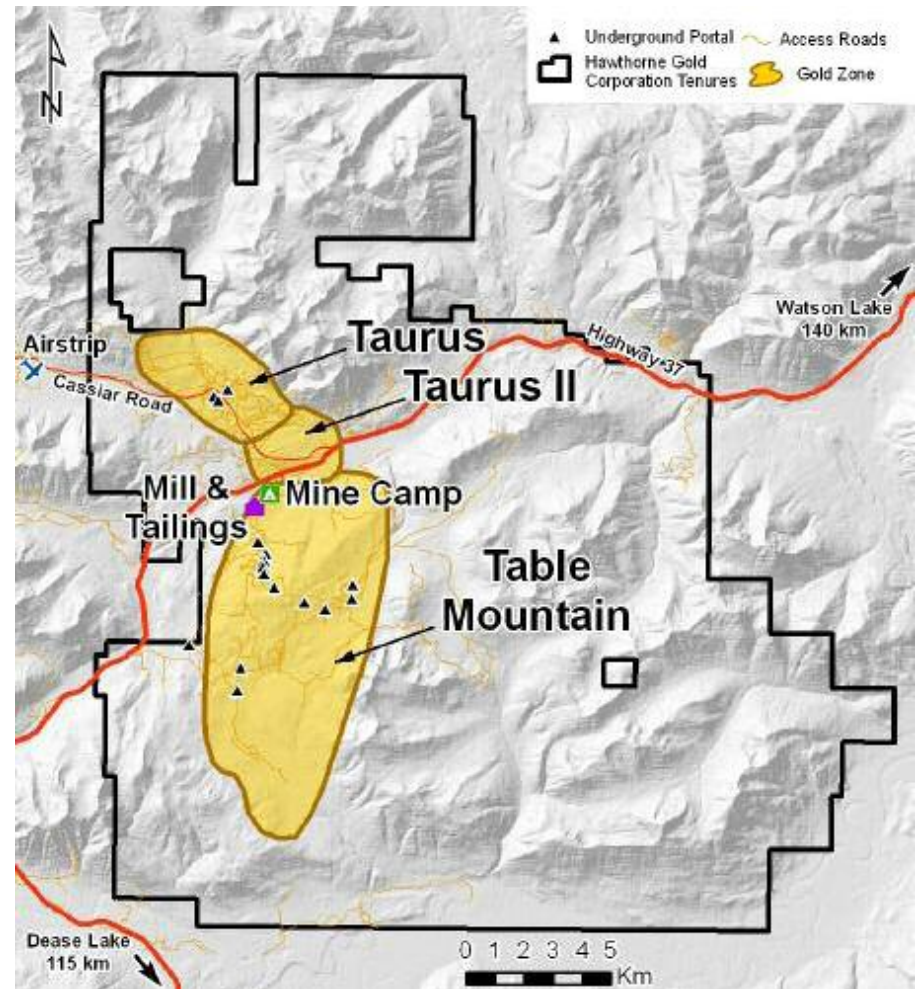
- Located in Jade City, Northern British Columbia
- 115 km north of Dease Lake, along highway 37





# Property Map

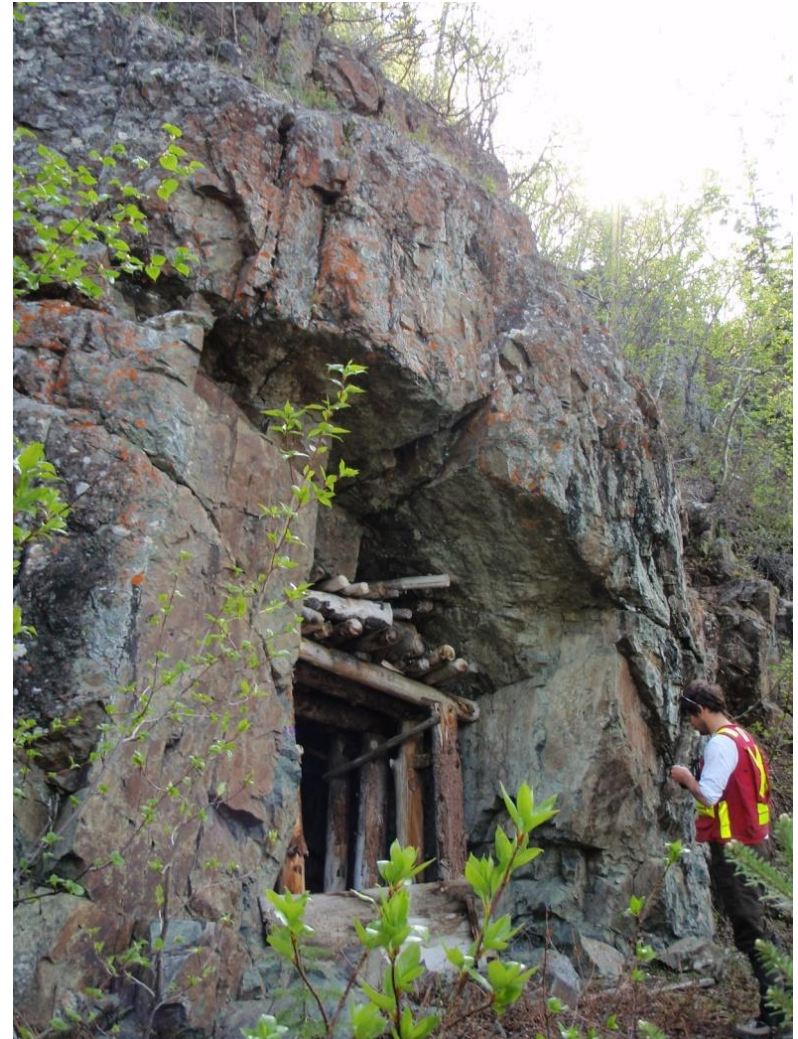
- 2 properties: Taurus and Table Mountain
- Both contain historic underground and surface mine workings





# Types of Work

- Soil Sampling
- Trenching
- Diamond Drilling
- Pit Mapping
- Open Pit and Underground Mining





# Soil Sampling

- Initial step in exploration



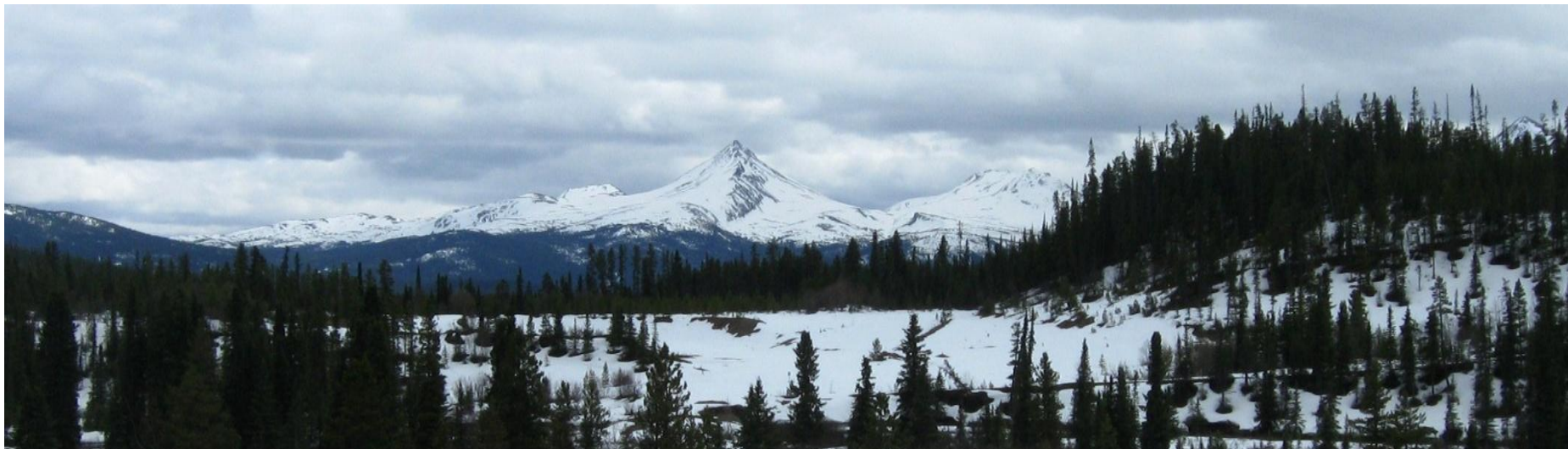
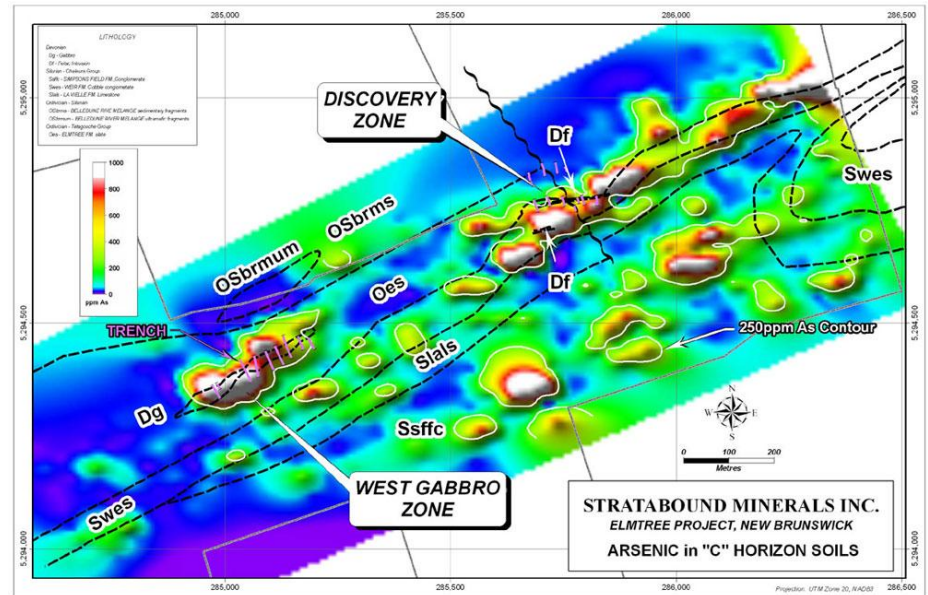
- Follow up on historical geological or geophysical data





# Soil Sampling

- Samples laid out on a grid
- Working in pairs to collect samples





# Trenching

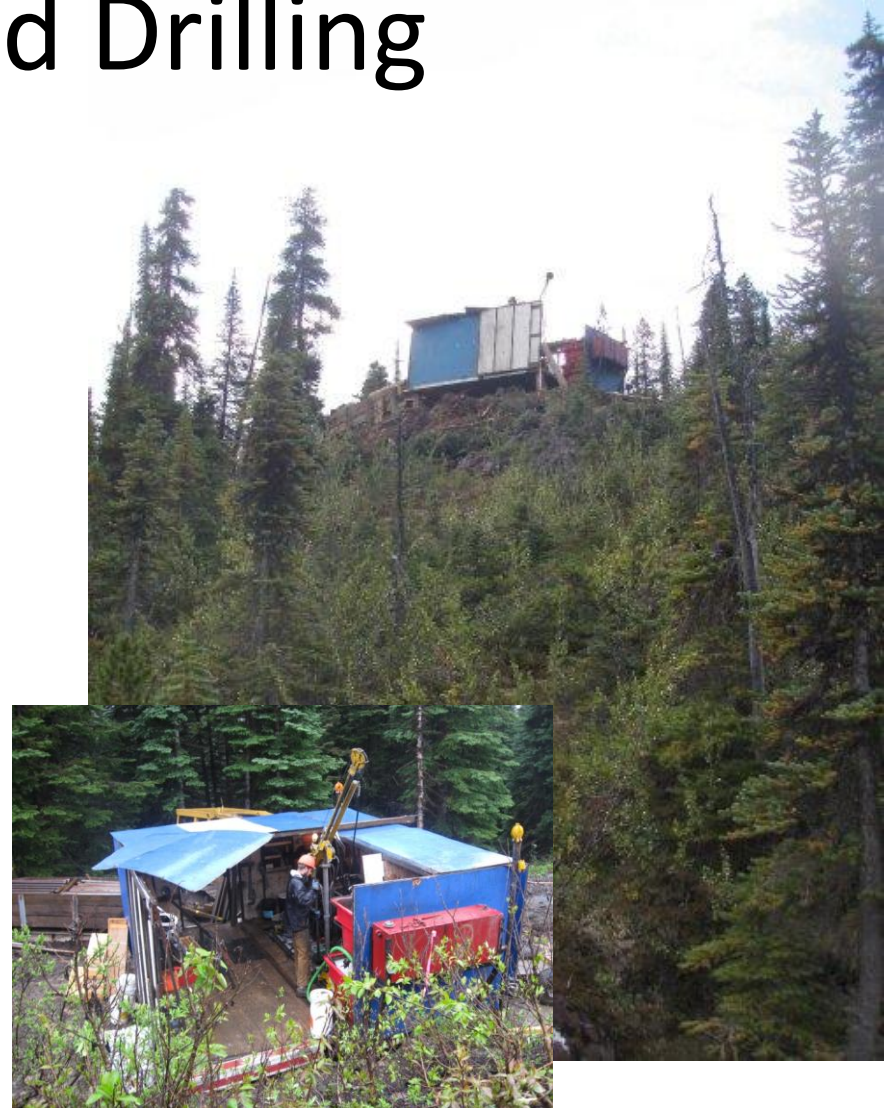
- Mapping, chip and channel samples
- Follow up on soil and geophysical data
- Developing drill targets





# Diamond Drilling

- Shows what rock is buried underground
- Exploration drilling to target trench, soil or geophysical anomalies









# Mapping the Taurus Bulk Sample Pit

- Prestripping with bulldozers and backhoes



- Washing with high pressure water pumps
- Set out a 5m X 5m mapping grid
- Channel sampling for grade control



# Mapping the Taurus Bulk Sample Pit





# Camp Life



- Snow on the first day of summer
- Freeing vehicles from the mud



- Baseball Games
- Crib Tournament
- Pool Matches





# Wildlife

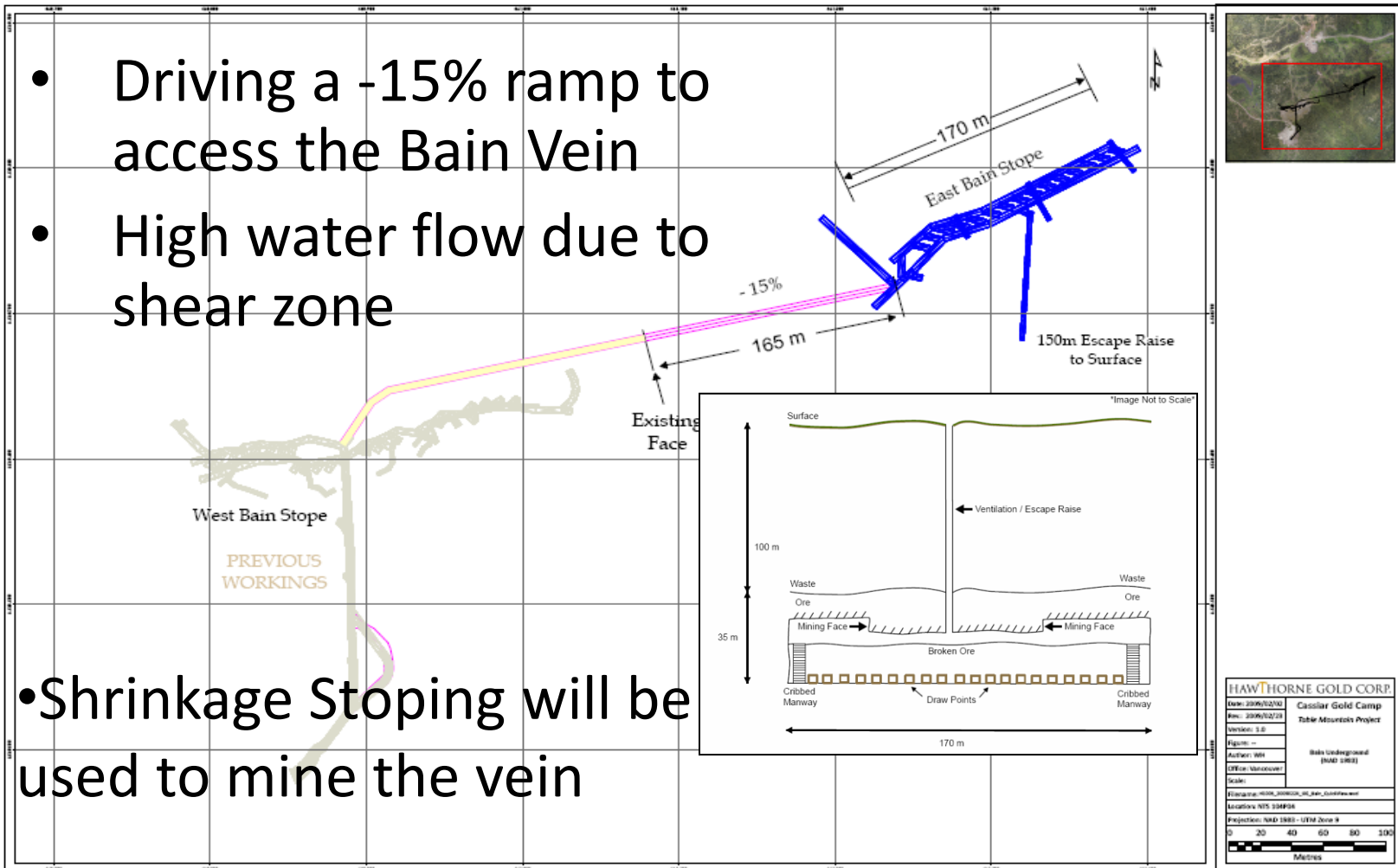
- Bears, moose, deer, and fox
- We work to avoid any contact with wildlife
- Safety measures against bears





# Underground Mining at Bain

- Driving a -15% ramp to access the Bain Vein
- High water flow due to shear zone

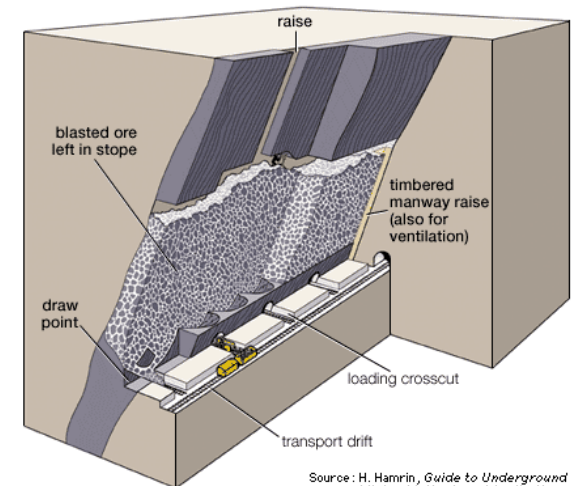




# Underground in the Bain Decline



- 2 shifts of 3 miners each
- Single boom jumbo
- ANFO tubes
- Drill & blast, ventilate, muck out, ground support



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Source: H. Hamrin, *Guide to Underground Mining Methods and Applications* (Stockholm: Atlas Copco, 1980)





# Mining the Taurus Bulk Sample Pit

- Percussion drill used to drill blast holes
- Each hole is then loaded with explosive, and put into the blasting sequence, awaiting detonation





# Summary

- Mining offers a wide range of career paths
- Good future job outlook
- BCIT Mining Program gives students a jumpstart into their careers





# Blasting at the Taurus Pit





Questions?