

KEITH DIAKIWI



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Keith is a science and history enthusiast. He loves to share his passion for geology, physical geography, and anthropology/archaeology. With his educational background in all four fields, his additional “hands on” experience as a Royal Canadian Naval Officer, Keith has a wealth of knowledge and stories to enrich the minds of his tour goers. Keith is also active in the community and the Metis Nation.

WORK EXPERIENCE

MINE OPERATIONS OPERATOR (2012 TO 2017)

CANADIAN NATURAL RESOURCES LTD. (FORT MCMURRAY, ALBERTA)

- **Qualified Caterpillar 797, 793, 785, 777** and Komatsu 930 heavy hauler operator, and was selected as an OP4 trainee on Caterpillar D11 & Komatsu 375 dozers and excavator who is competent in all weather conditions with no equipment damage and zero safety incidents; our crew set a company safety record in 2015)
- **Gaining valuable operational field experience** in oil sands mining that was not fully appreciated and/or understood working inside the technical realm; these valuable skills will continue to benefit my mining career concerning operational multi-tasking, mine planning, contingency planning, maintenance scheduling, and the quest for improved efficiencies along with the foundation of safety excellence
- **Selected as a member** of the B-Crew Mine Rescue Team in 2012, as well as 10 years in an active role on the Horizon Fire Auxiliary Firefighter Team and assisted in fighting the 2011 and 2016 Fort McMurray wildfires

PRODUCTION GEOLOGIST (2006 TO 2012)

CANADIAN NATURAL RESOURCES LTD. (FORT MCMURRAY, ALBERTA)

- **Team player with Mine Operations and Short Range**; assisted pit foremen in the field supervision of ore mining while conducting daily shovel visits in checking for any dig face/geological model variations and initiated field calls when required
- **Conducted weekly ‘mined out’ volume reconciliations** based on my daily shovel/material tracking used in monthly reports to the AER, as well as “clipping” the geological model via the weekly survey for Short Range planning needs concerning ore bench quality
- **Participated in ore/rejects sampling**, sand test pitting, and pit mapping when required; also created these geological policies and procedures for Mine Technical Services
- **Played a key field role** in the operational start-up of Horizon’s basal aquifer system and managed our sand pit resource for a term
- **Assisted in the supervision** of two past winter drilling programs via construction logistics, rig moves, well logging, and data collection
- **Constructed weekly material placement tracking/utilization spreadsheets** and associated graphs for tailings dam construction
- **Led mine pit tours** for both internal and external groups when required
- **Served as the liaison** between Canadian Natural’s Horizon site and the Royal Tyrrell Museum; conducted annual geology/palaeontology presentations to all Mine Operations personnel

WELLSITE GEOLOGIST (2005 TO 2006)

WELLSITE MASTERS LTD. (FORT MCMURRAY, ALBERTA)

- **Assisted in the supervision** of an oil sands drilling program for Canadian Natural's Horizon Project involving 5 coring rigs (>230 wells and >120 personnel)
- **Provided on-site geological expertise** for lithology and formation contact checks
- **Participated in every facet of drilling logistics** from rig moves, well logging, data collection (tour/core sheets), and safety supervision
- **Supervised core marking**, collection, shipping, and data management (QA & QC)
- **Created and presented core marking tutorials** to ensure QA/QC standardization by all crews

FIELD ENGINEER (2003 TO 2004)

SCHLUMBERGER DRILLING & MEASUREMENTS (MACAÉ, BRASIL)

- **Provided real time well bore trajectory measurements** using technologically advanced downhole tools for client formation evaluation, as well as in the success of the directional driller's sub-surface navigation in reaching their target pay zone(s)
- **Offshore Petrobras semi-submersible platform drilling** conditions and multi-national team interactions under remote and challenging prolonged conditions at sea
- **Certified radiation worker** for the following sources: Cs-137 and Am-241

JUNIOR GEOLOGIST (2003)

ENCANA CORPORATION (CALGARY, ALBERTA)

- **Successfully completed** my "Geological Evaluation of Mississippian Gas Potential within the Cranberry Area (Northwest Alberta)" project
- **Developed a new play framework** in correlating Mississippian stratigraphy for hydrocarbon potential via regional stratigraphic cross-sections and geological maps
- **Correlated eight formation tops** in over 700 wells using geophysical logs
- **Discovered gas production limitations** from reservoir quality, subcrop proximity, and formation top/bottom integrity investigations

NAVAL RESERVE OFFICER (2001 TO 2014, 2018...)

HMCS NONSUCH (EDMONTON, ALBERTA)

- **BWK Qualified Naval Warfare Officer (NWO)** [Rank: Lieutenant (Navy)]
- **Primary role is command, control, and coordination** of military maritime operations that require the ability to lead and make decisions based on multiple inputs, often under long periods of adverse conditions
- **Entrusted by the Commanding Officer to have charge** over a 67 million dollar warship and its 40 crew members when on watch and/or duty
- **Held the following positions:** Deck Officer (DeckO), Public Affairs Officer (PAO), Officer Training Officer (OTO), and Unit Information Officer (UIO)
- **Selected as an Aide-de-Camp** to His Honour, the Lieutenant Governor of Alberta (2011-13)
- **Successfully completed the 2009 Nijmegen March** in the Netherlands as a member of CFB Edmonton's LFWA Tri-Service team and received a prestigious Dutch metal

GEOLOGY SUMMER STUDENT (1997)

GREGG RIVER MINE (CADOMIN, ALBERTA)

- **Assisted in the planning and execution** of the annual mine exploration drilling program
- **Determined coal seam thicknesses** using geophysical logs and calculated the associated reserves for the newly explored areas with the latest core hole data
- **Conducted daily Brunton compass 'in pit' geological mapping** to edit the geological model formation tops and created an extensive suite of stratigraphic cross-sections using Medsystem software at the end of the work term
- **Responsible for daily wall stability monitoring** via pit prism surveying and generating their associated movement reports for the Mine Manager

MINE PLANNING SUMMER STUDENT (1996)

GREGG RIVER MINE (CADOMIN, ALBERTA)

- **Assisted in computer modeling** of future mine phases for upcoming pits in Medsystem
- **Studied the economic validity** through calculated strip ratios for potential pits
- **Calculated coal reserves** using the geological model
- **Checked pit wall stability** for mine operation safety through daily Geodimeter surveys of pit prisms and generated their associated movement reports for the Mine Manager
- **Compiled equipment "time studies"** into a summary report for the Senior Engineer and assistant Mine Manager

EXPLORATION CO-OP STUDENT (TERMS 2 & 3, 1995)

MANALTA COAL LTD. (CALGARY, ALBERTA)

- **Assisted in the execution and supervision** of five drilling programs on three operating coal mines across Western Canada (road/drill pad construction and rotary/diamond core drilling operations)
- **Gained valuable field experience** in logging core and geological pit mapping
- **Interpreted geophysical logs** and generated geological cross-sections
- **Surveyed all completed drill holes** with Motorola LGT 1000 GPS

ARCHAEOLOGY FIELD VOLUNTEER (1993)

KIBBUTZ REVADIM (40 KM WEST OF JERUSALEM, ISRAEL)

- **Experienced "hands on" archaeology** for the first time along with brand new excavation field techniques not yet taught at the U of L
- **Obtained a unique international experience** working alongside with other students from over 50 countries
- **Developed effective interpersonal skills** from the remote rural living and working conditions
- **Successfully completed two** Hebrew University of Jerusalem's senior level archaeology courses (A+, A)

GEOLOGY/SURVEY/ENVIRONMENTAL CO-OP STUDENT (TERM 1, 1993)

GREGG RIVER MINE (CADOMIN, ALBERTA)

- **Introduced to exploration drilling**, logging core, and geophysical log interpretation
- **Measured dip direction and dip of bedding planes**, folds, and faults inside the active shovel pit areas using a Brunton compass
- **Created stratigraphic cross-sections** using Medsystem software
- **Provided vacation relief as survey support** utilizing previous Geodimeter work experience
- **Assisted in the mine's annual** summer tree planting & hydro-seeding reclamation programs when required

EDUCATION

BACHELOR OF SCIENCE WITH SPECIALIZATION (Geology)
UNIVERSITY OF ALBERTA (2003)

BACHELOR OF ARTS (Anthropology/Archaeology)
UNIVERSITY OF ALBERTA (2001)

BACHELOR OF SCIENCE (Physical Geography CO-OP)
UNIVERSITY OF LETHBRIDGE (1996)

AWARDS & RECOGNITION

- **Fort McMurray Wildfire Firefighter Metal**
- **Nijmegen March's Vierdaagse Cross**
- **NONSUCH's Outstanding Junior Officer Award**
- **Canadian Society of Petroleum Geologists Scholarship**
- **A.T. Anderson Memorial Scholarship**
- **University of Alberta Housing and Food Services' Lifetime Achievement Award**
- **Most Outstanding Pembina Hall Students' Association Executive Award**
- **Most Outstanding Lister Hall Students' Association Executive Award**
- **Reg Lister Trophy: Most Outstanding Contribution to Residence Life**
- **Most Outstanding Floor Coordinator Award**
- **Charles S. Noble Student Leadership Award**
- **Dorot Scholarship**
- **Charles S. Noble Student Leadership Award**

MEMBERSHIPS & CERTIFICATIONS

INDIGENOUS

- Metis Nation of Alberta Citizen (MNA)

PROFESSIONAL

- Association of Professional Engineers & Geoscientists of Alberta (APEGA)
- Canadian Institute of Mining, Metallurgy & Petroleum (CIM)
- Canadian Society of Petroleum Geologists (CSPG)
- Alberta College of Paramedics (ACP)
- Alberta Palaeontological Society (APS)

CERTIFICATIONS

- St. John Ambulance Emergency Medical Responder and ACP certified EMR
- NFPA 1081
- AMSA Mine Rescue
- H2S Alive
- CSTS
- OSSA
- WHMIS
- Site Supervisor
- 7 Habits of Highly Effective People
- Lock Out & Tag Out
- Gas Detection
- Bear Awareness