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Petroleum Surface & Minerals Landman by Profession, Prospector/Geologist by Trade

PRESIDENT: ARRIBA Land & Minerals Corp., a land service company that assembles strategic mineral packages for explorers such as Ironstone Resources Ltd. **2009-2011**

OPERATIONS MGR., Curlew Lake Resources Inc. CWQ.V managed innovative energy exploration projects on contract for the Curlew (TSX.V); reef plays, diamonds, gold. **2009-2011**

MANAGING DIRECTOR: WHITESTONE ROYALTY & EXPLORATION INC., a company pursuing the resolution of a geological puzzle: Reconcile massive iron ore deposits in the Clear Hills, Peace River Arch, having no apparent source, with evidence of nearby volcanic ashes.

TEAM LEADER: Copperstone Resources Ltd., an Alberta registered A&D firm attempting to facilitate acquisitions of strategic mineral properties for exploration and development by China-based manufacturing companies. Contracts and Negotiations **2009-2011**

PROJECTS **2006-2009**

As first President and founder of **IRONSTONE**, a company engaged in exploration and development of the Clear Hills iron ore deposit; lead development of the World's 6th largest iron-vanadium deposit. Previously Land Manager, Peace River Oil Inc., a heavy oil refining company.

ACCOMPLISHMENTS

Petroleum Land & Geology: Contracts Manager with more than 25 years experience in oil and gas exploration, mining geology, business development, start-ups and managing projects.

- Carried out fieldwork and assembled evidence that supports West Peace River Arch volcanics and a Diamond Indicator Minerals Trend that relates the iron ores and heavy minerals previously discovered at Peace River between Worsley and Manning and showed that these are associated with deep basement faults and episodic Cretaceous volcanic events.
- Wrote a business plan, marketing plan and financing plan for Curlew Lake Resources Inc.
- Managed a team and acquired Crown and freehold minerals for CWQ.V; managed drilling and completion operations of wells at Fairydell, Alberta and negotiated prospect farmouts.
- Built a 100MM\$ resource company in 1 year by acquiring the Clear Hills iron ore deposit titles, carrying out financing and marketing of Ironstone Resources, and managing a team that drilled the property to NI 43-101 resource criteria.
- Directed surface acquisitions for 12 years as contract landman with *Paramount* from start-up as Allied Roxanna in 1974 to Paramount Resources in 1986 – wellsites, compressors, airstrips, right-of-ways design and field supervision including; Chard, Liege, Granor, Seleski and Legend Lake and delivered the first 40 MMCF/D across the Athabasca River to market.
- Acquired freehold mineral leases throughout Alberta, southern Saskatchewan and Ontario, for a number of companies including Voyager Petroleums and Anschutz Exploration.
- Negotiated farm in and farm out agreements, drilling contracts and supervised land administration in Alberta and Saskatchewan for Reflection Resources Ltd. (ASE-listed). Explored the Mississippian Tilston, Lodgepole and Spearfish trends from Parkman Oil Field, southeast Saskatchewan into Manitoba. Drilled a 300 b/d well at Frys Oil Field.

- Extended geological knowledge of the Peace River Arch by prospecting, discovering and mapping volcanic ashes and tuffs associated with reactivation of Hines Creek Fault (and others) in Twp 84-86, Rge 5-12 W6M and filed 17 assessment reports with B.C. and Alberta geological surveys describing heavy minerals trends and diamond indicator minerals.
- Raised financing, administered operating and accounting procedures, directed joint venture operations, for the Peace Diamond Project; flew mag surveys and explored the Clear Hills, Peace River Lowlands and Hawk Hills over a 7 year period. (1993-1999)
- Assessed oil and gas plays and geological and economic feasibility of the Petan Basin in Belize and in the Fang and Khorat regions of Thailand.
- Member of CAPL for 25 years; one of first 50 to receive the P.Land Certification (expired), Surface Landman's license for 30 years (expired), Commissioner for Oats, AB (expired).
- Computer capable, including Office, GeoScout and Accumap.
- Website design and marketing for several business initiatives, and publications on exploration and development projects, including China-based ventures.

Arriba Land & Minerals Corp. (strategic mineral & right-of-way acquisition company) **2001-2011**
Calgary, Alberta, Canada

Mineral assembly, Play development and Finance

- Peace River Arch, Clear Hills oil and gas prospects and play development.
- Hotchkiss Hills, Peace River Arch gold and diamond exploration project.
- South Alberta Glauconite channels from the Sunburst-Cutbank field to Taber.
- Researched meteorite impact craters as potential hydrocarbon trapping structures.
- Evaluation of mining prospects in Alberta, B.C., Panama, Ecuador, Chile and Peru.
- Collaboration with Copperstone and other companies to develop China client-customers.

PROJECTS

Petroleum Land Services Company

Calgary, Alberta, Canada

Marketing - Petroleum Surface Land Services

- Corporate Profile and Marketing Plans.
- Established a Fort St. John office and carried out our business development plan.

Offshore Exploration Play Development

Calgary, Alberta, Canada

Evaluation of plays, Marketing and Finance

- Evaluation and study of an oilfield for a Canadian company in Thailand.
- Review and evaluation of Petroleum Sharing Agreements.
- Economic evaluation of joint venture proposals.

Oil & Gas Investment Company

Calgary, Alberta, Canada

Identifying and Evaluating Properties for Purchase

- Identify and evaluate gas production properties and oil production properties.
- Assist in Purchase and Sale agreements and closings.

HISTORY

Land and Petroleum Services Company

1999-2001

Calgary, Alberta and NE British Columbia, Canada

Landman - Sales and Marketing, Business Development

- Established a branch-office in Fort St. John, B.C.
- Marketing, sales and website development.
- Surface Lease and pipeline right-of-way acquisitions.
- Freehold rights, Crown rights and trapper notifications and claims.
- Reclamation and pre-construction assessments.
- Alberta Directives and landowner notifications and consultations.
- Special Project: Coalbed Methane Potential in Alberta: engineering, geology, economics.

TUL Petroleums Ltd. (presently a holding company) **1991-1999**

Peace River, Clear Hills, Alberta

Project Manager, Owner, Landman

- Operator of the Peace Diamond Project, Peace River, Alberta.
- Diamond exploration:
 - carried out over 3MM\$ of exploration,
 - field mapping, core drill logging,
 - ground and aero magnetometer surveys,
 - lab work, picking and identifying kimberlite and diamond indicator minerals,
 - analysed and synthesised data,
 - prepared reports and presentations.

Mount Royal College **1989-1991**

Calgary, Alberta, Canada

Instructor and Course Designer

- Wrote "*The Landman in Action*," a textbook for Field Services course.
- Taught Field Services 1120 for 3 semesters.

Geological Survey Company **1988-1989**

Port Alberni, BC and Indin Lakes, NWT, Canada

Geological Field Supervisor

- Geological field supervision and sampling program co-ordination.
- Claim boundary confirmation, chip sampling and mapping programs.

Reflection Resources Ltd. (now Corsair Petroleum Inc.) **1983-1988**

Calgary, Alberta, Canada

V.P. Exploration and CFO

- Founder and board member of a public junior oil and gas company - 5 years.
- V.P. Exploration and CFO.

Tri Union Land Services Ltd. **1974-1983**

Calgary, Alberta, Canada

Principal and surface and minerals acquisitions co-ordinator

- Consulting Landman and Team co-ordinator.
- Surface and minerals land acquisition for 20 clients in Alberta, Sask. and NWT.
- Paramount Resources Ltd. Athabasca gas gathering systems permitting, supervision.

PUBLICATIONS AND DISCOVERIES

- **China:** packaged and presented iron project to multi-billion \$ companies at Beijing & Shanghai.
- presented to MEG (Calgary Mineral Exploration Group) Conference 2008, "Will Peace River Reveal Her Wealth to Us? Clear Hills Iron Ore Deposit."
- took 3 companies public Alberta Stock Exchange; Reflection, Provest and Contact Exploration.
- discovered and mapped Montagneuse River ashes, Peace River District, AGS pub:[19970006](#),

- explored the Clear Hills Iron Ores and Hawk Hills magnetic anomaly, AGS pub: [19980014](#).
- 17 Assessment Reports submitted to B.C. and Alberta governments re Peace River exploration, and discovered diamond indicator minerals on Beaton River claims. AGS pub: [19990025](#).
- carried out research and logistics studies of Belize for a start-up oil exploration program.
- obtained the Canadian trademark for Living and Working in Paradise™.
- carried out strategic studies of Belize, Panama & Thailand as mineral exploration host countries.
- authored and published "Belize and Yeeha! Central America," "Hola! Panama" and "Hummm—Thailand!" and historical work, "The Bounty of Gods: and the wreck of the Lone Star Ranch," 2007, "Landman in Action" 1989, Mount Royal College landman textbook, and course exercise book, "Pumping Oil: Exercises for Petroleum Landmen." www.landandminerals.com
- Previously a CAPL member (25 years) and AAPL member.

EDUCATION

- **University of Lethbridge** 1990
Education Faculty
Professional Semester I – teaching, Science specialty.
- **Simon Fraser University** 1972
Burnaby, British Columbia
BA, Geography – Geomorphology; Earth Science.
- **Aboriginal Sensitivity Training:** carried out Native consultation process. 2006-2008

GEOLOGY & TECHNICAL

Foundation: 25 years in land, teaching: Petroleum Land Management (Field Services/Mount Royal College); author: "*The Landman in Action*" surficial geology and all aspects of petroleum land including strategies and methods for surface and minerals acquisition.

Milestones: discovered and mapped the Peace River Ashes, named the Whitestone Marker in Montney, Peace and Many Island channels (1997) (AGS MIN_1997006 Report); Operator of the Peace Diamond Project, a seven-year multi-million dollar assessment exploring, mapping and drilling a 500,000 acre metallic and industrial minerals block in the Clear Hills of Alberta.

Proposed the West Peace Diamond Indicator Mineral Trend (1999) using air photo interpretation, magnetometer surveys, exploration and reconnaissance, sampling of KIMs (kimberlite indicators) mapping, shallow-hole logging; sampling DIMS (diamond indicator minerals) and analysis (heavy metallics and diamond indicator mineral geochemistry), picking, probing and mapping.

Project Manager Clear Hills: Arriba Land & Minerals has been instrumental in co-coordinating the ownership of minerals and surface infrastructure for the Clear Hills Rambling Creek Drill Program for Ironstone Resources Ltd. It was a program designed to show a "Measured Resource" qualification for adequate tons of iron ore to meet economic threshold for a mine and prove the Clear Hills deposit to be one of the largest mineable iron ore and vanadium deposits in the world.

1995 Report - review of Peace River geology and geochemistry: AGS assessment report site is down.

http://www.ags.gov.ab.ca/publications/MIN/PDF/MIN_19950019.PDF

1997 Report - discovery of lamprophyre and volcanic ashes:

http://www.ags.gov.ab.ca/publications/MIN/PDF/MIN_19970006.PDF

1998 Report - geochemistry from Hawk Hills to Peace River Lowlands:

http://www.ags.gov.ab.ca/publications/MIN/PDF/MIN_19980014.PDF

1999 Report - West Peace River Diamond Indicator Mineral Trend proposal:

http://www.ags.gov.ab.ca/publications/MIN/PDF/MIN_19990025.PDF

ALBERTA GEOLOGICAL SURVEY <http://www.ags.gov.ab.ca/publications/pubs.aspx?series=min>

BRITISH COLUMBIA Minerals, Energy & Mines: Beaton River Kimberlite Indicator Mineral discoveries: <http://aris.empr.gov.bc.ca/ArisReports/25648.PDF>.