Stewart A. Jackson, PhD. P.Geo.

STEWART A JACKSON & ASSOCIATES

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SUMMARY: Experienced Professional with 54 years in the mineral industry. Involved in exploration and development of base and precious mineral deposits in a wide range of environments for both large and small companies.
Involved in the discovery and development of several major mineral discoveries including the Red Dog multi-billion dollar zinc-lead deposit in Northwestern Alaska for Cominco American Resources, Inc. ,now part of Teck-Cominco.
Participated in the discovery and development of the Borealis, South McCoy and Manhattan gold deposits in Nevada for Houston Oil and Minerals.
Founded Crown Resource Corporation, in 1981. Crown discovered in the Republic District of Washington State, USA some 4.5 million ounces of gold in the Seattle Mine, South Penn, Key East, Key West, Overlook, Lamefoot, Kettle River, K2, and Crown Jewel deposits. Much of this has been produced ,with the Buckhorn Project (formerly Crown Jewel), currently in production by Kinross.
Raised $150 million for the discovery and development of these and other projects including gold, silver, diamonds, and base metals; nickel and uranium.
Participated as one of the vendors of uranium properties in Sweden held by Continental Precious Minerals, of which the Viken deposit alone contains resources of over 1 billion pounds of U3O8, and multi-billion pound resources of molybdenum, vanadium, and nickel.

WORK EXPERIENCE:

1987 to Present

Consultant to and Director of several public companies in Canada, USA, Mexico, Sweden, Africa, Australia, the Philippines, and Indonesia.
Independently involved in exploration and development projects including gold, silver, base metals and diamonds in several areas of the U.S. and Canada ,Mexico, Central America, Africa and Europe.
Since 1987 involved in site redemption for Environmental clearances; fuel blending & waste disposal; water 'polishing' and waste-water cleanup; hazardous and non-hazardous waste disposal.

1981 to 1987

President and founder of Crown Resource Corp. (now Crown Resources Corporation). Established and managed Crown as a public company developing gold and silver targets, discovering several gold deposits in northeastern Washington which were brought to production 1990 by Echo Bay Mines, Ltd. , now operated as Kinross.
Acquired for exploration another significant gold discovery, the Buckhorn, or Crown Jewel, in northeastern Washington, that Kinross has currently in production. Crown was involved in the Divide and Goldfield targets in Nevada and the Creede property in Colorado. Raised in excess of $20 million to explore and develop mineral properties before leaving Crown in 1987.

1977 to 1981

Manager: Minerals Exploration, Houston Oil and Minerals Corporation, Minerals Division , in Denver Colorado. Responsible for all the phases of mineral exploration and early stage of development with budgets of $10 million per year and staffs of up to 200 people. Responsible for discovery of several major deposits, including the Lik deposit in the Red Dog area of Alaska. Involved in the exploration and development of the Manhattan, South McCoy, and Comstock gold mines.

1969 to 1977
Supervisory Geologist with Cominco American Incorporated of Spokane, Washington (now Teck Corp.). Responsible for the generation, implementation, and supervision of major programs for both metallic and non-metallic mineral deposits. Involved in all phases of a subsurface carbonate-hosted zinc exploration program in Tennessee and Kentucky--Cincinnati Arch, followed by four years in the Western Cordillera of the United States and in Alaska exploring for similar deposits as well as strataform sulfides in sedimentary basins and volcanic belts. Located several significant mineral deposits, including Cominco's multi- billion dollar Red Dog zinc-lead-silver belt in northwestern Alaska which today produces over 12% of total world zinc production.

Additional Experience:
Graduate Student and Teaching Asst. 1966 to 1969 University of Alberta, Edmonton Alberta, Canada

Faculty of Graduate Studies
Ph.D. candidate and full time teaching assistant
Completed Ph.D. program

Graduate Student and Teaching Asst. 1964 to 1966 University of Toronto, Toronto, Ontario, Canada
Faculty of Graduate Studies
M.Sc. candidate and full time teaching assistant
Completed M.Sc. program

Undergraduate Student 1959 to 1964 University of Western Ontario, London, Ontario, Canada
Department of Geology
B. Sc. Candidate
Completed Bachelor Degree

Summer Work Experience:

1965 Cominco Limited, Pine Point Mine area
Core logging, pit mapping, and collection of Ph.D. Research material
1964 Cominco Limited, Northern British Columbia and Yukon Territory - varied metal exploration
1963 Pan American Petroleum (AMOCO)
Foothills, Alberta and British Columbia
Structural mapping of Cretaceous rocks

1962 Falconbridge Nickel Mines
Marbridge Mine, Northwest Quebec
Underground and surface geological mapping

1961 Falconbridge Nickel Mines
Timmins area, Canada
Geophysical and geochemical crew member

1959 I.C. Christopher Limited
Northwest Quebec
Geophysical and diamond drill crew member

PROFESSIONAL

MEMBERSHIPS: Member of several professional and scientific organizations.
SPECIALITIES: Exploration and development of mineral deposits both base and precious metals. Extensive experience in Mississippi Valley type lead-zinc deposits and strataform mineral deposits, as well as various precious metal occurrences.
PUBLICATIONS: See attached sheet
AWARDS: Recipient, Barlow Medal of the Canadian Institute of Mining and Metallurgy for joint paper with F.W. Beales entitled: Pine Point, a stratigraphical approach, 1968. Listed in Engineers Joint Council Engineers of Distinction - 1970.
EDUCATION:
1959 - 1964 University of Western Ontario
Degree Earned: B. Sc. - Major: Geology
1964 - 1966 University of Toronto
Degree Earned: M.Sc. - Major: Stratigraphy and Mineral Deposits
Thesis title: A Study of Mississippi Valley Type Lead-Zinc Mineralization with Special Reference to Sediment Diagenesis
1966 - 1969 University of Alberta
Degree Earned: Ph.D. - Major: Stratigraphy and Economic Geology
Thesis Title: The Carbonate Complex and Lead-Zinc Ore Bodies, Pine Point, Northwest Territories, Canada

PERSONAL DATA:
DOB: .....June 11, 1941
Height: .....6' 2"
Weight:.....210
Marital Status: ....Married 26 years
Children: .....Five
Health: .....Good, no physical limitations
Hobbies:..... Hunting, Fishing, Gardening, Beekeeping, Raising show poultry

LIST OF PUBLICATIONS

S.A. JACKSON

P. Fritz, and S.A. Jackson, 1972
Geochemical and isotope characteristics of Middle Devonian dolomites from Pine Point, Northern Canada: International Geologic Congress, Montreal, Canada, Sect. 6, p. 230-243
S.A. Jackson, and R.E. Folinsbee, 1969
The Pine Point lead-zinc deposits, Northwest Territories, Canada; Introduction and Paleoecology of the

Presqu'ile Reef: Econ. Geol., v. 64, p. 711-717
G.K. Billings, S. E. Kesler, and S. A. Jackson, 1969
Relation of the zinc-rich formation waters, Northern Alberta, to the Pine Point ore deposit: Econ Geol. V. 64, p. 385-391
S.A. Jackson, 1969
Lead-zinc deposits of the Pine Point area, Northwest Territories, Canada: Edmonton Geological Society, Field Conference Guidebook, p. 55-59
** F.W. Beales, and S.A. Jackson, 1968
Pine Point - a stratigraphical approach: Can. Inst. Min. And Metall. Bull., v. 61, p. 867-878
S.A. Jackson, and F.W. Beales, 1967
An aspect of sedimentary basin evolution: the concentration of Mississippi Valley-type ores during the late stages of sediment diagenesis: Bull. Can. Petroleum Geol., v. 15, no.4, p. 434-468
F.W. Beales, S.A. Jackson, 1966
Precipitation of lead-zinc ores in carbonate reservoirs as illustrated by Pine Point ore field, Canada: Inst. Of Min. And Metall. (London), v. 75, p. B278-B285. Discussion: v. 76, p. B130-B136, and p. B175-B176

Multiple participations in Symposia, Technical Presentations, and Corporate presentations on a wide variety of projects.

** This paper resulted in the authors being awarded the **Barlow Medal of the Canadian Institution of Mining and Metallurgy**. This award recognizes the outstanding geological paper of the year published in the CIM Bulletin.

MINERAL DISCOVERIES BY S. A. JACKSON, PHD, PGEO.

A summary of mineral deposits that I have discovered or been associated with in the early stages of exploration and development.

These are summarized below for your review:

1. REPUBLIC DISTRICT OF WASHINGTON, USA.

Multiple deposits discovered and explored starting in 1981 with Crown Resource Corporation. Subsequently mined by Echo Bay Mines which is now Kinross Gold, with continuing production By Kinross at the Buckhorn Mine as shown.

Years	*Deposit*	*Type*	*Tons Milled*	*Au-opt*	*Au-ozs (contained)*
1990-1995	Overlook	Mag Replacement (Skarn?)	1,896,513	0.152	288,995
1990-1993	Kettle (aka Granny)	Epithermal Quartz	246,336	0.260	63,932
1992-1993	Key East & West	Mag Replacement (Skarn?)	928,980	0.140	129,882
1994-2001	Lamefoot	Mag Replacement (Skarn?)	2,860,364	0.212	607,225
1997-2007	K2	Epithermal Quartz	1,280,948	0.201	257,760
2000-2003	East Vein	Epithermal Quartz	227,010	0.173	39,344
2003-2007	Emanuel Creek	Epithermal Quartz	671,511	0.285	191,161
2008-2010	Buckhorn***	Skarn	838,431	0.519	435,316
	Total		***8,950,093***	***0.225***	***2,013,615***

These are mine production statistics. Since there was co-mingling of ores from different sources in the past, there is no accurate estimate of actual gold production from each deposit.

For example at the K2 mine – there was production from 3 separate deposits through that portal that amounted to 2,179,469 tons averaging 0.224 opt for 488,265 contained ozs.

*** Reserves at the Buckhorn Mine are substantial, with Dec.2009 Proven and Probable Reserves at 1.701 million tonnes at 13.88 g/t or 759,000 oz.

2. VIKEN MULTI - METAL DEPOSIT SWEDEN , URANIUM-MOLYBDENUM-VANADIUM-+ OTHER METALS. CONTINENTAL PRECIOUS MINERALS, TORONTO.

Uranium 1 billion pounds, Molybdenum 1.5 billion pounds, Vanadium 15 billion pounds in Indicated and Inferred Resource categories.

Substantial upside for additional. PEA completed late 2010. Together with associate were original vendors of the property, and drilled out this world class resource.

3. TURNAGAIN NICKEL DEPOSITS, NORTH CENTRAL BRITISH COLUMBIA , CANADA. HELD BY HARD CREEK NICKEL , VANCOUVER, BC.

Major sulphide nickel deposit over 1.2 billion tonnes with nickel and cobalt . PEA completed in early 2010. Involved in the delineation of the project from a prospect to a world class resource.

4. BOREALIS, COVE, MANHATTAN GOLD DEPOSITS , NEVADA, USA.

Involved in early stage exploration with Houston Oil and Minerals Corporation. Borealis produced 450,000 ounces of gold, open pit. Underground targets being explored currently. Cove-McCoy produced 200,000,000 ounces of silver plus significant gold. Manhattan , a significant gold producer.

5. RED DOG ZINC-LEAD DEPOSITS, ALASKA, USA.

Instrumental in early recognition of potential of this belt that yields over 10% of annual world zinc production, for Cominco American, now part of Teck Corp. Production for 28 years, with many years of production capacity.

Kind regards,

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