
JOSÉ THADEU TEIXEIRA

PERSONAL DATA

Geologist, married, 2 children, born in 4th, July, 1944.

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PROFESSIONAL FORMATION

December, 1967

BS in Geology - Universidade Federal do Rio Grande do Sul (Federal University of the Rio Grande do Sul State, Porto Alegre, Brazil).

PROFESSIONAL IMPROVEMENTS

Dredging Technology – Mackay School of Mines – University of Nevada – Reno – 1978;

Organization and Methods - Management by Objectives - Management and Leadership for Executives - FGV courses for DOCEGEO/CVRD - Coordinating Teacher: Uirpy Benicio - 1979;

Economic Guidelines for Exploration Planning – Brian Mackenzie – 1979 – ABRAMO;

Analysis and Company Valuation - LLM Financial Consulting - Teacher: William Aboin - Internal course of Paranapanema S / A - 1999.

PROFESSIONAL ACTIVITIES

Since July, 2009

TEIXEIRA CONSULTORIA E SERVIÇOS LTDA. – Consultor em Geologia

January, 2005 to July, 2009

METALDATA S/A. – Geology Director.

January, 1984 to March, 2003

PARANAPANEMA GROUP – Chief geologist and Exploration Manager

July, 1971 to December, 1983

DOCEGEO (CVRD) – Project manager, Chief (substitute) of the Amazon Exploration District (Belém, Pará State) and Chief of the Center-West Exploration District (Goiânia, Goiás State).

October, 1969 to May, 1971

PARANAPAMENA – MINERAÇÃO INDÚSTRIA E CONSTRUÇÃO – Senior geologist.

March, 1968 to September, 1969

COMPANHIA MERIDIONAL DE MINERAÇÃO (U.S. STEEL) – Junior Geologist.

PROFESSIONAL EXPERIENCE

Mineral Exploration: Planning and execution of exploration projects for gold, base metals, tin, manganese, iron, tungsten and tantalum. Extensive experience in geochemical exploration. Exploratory drilling programs. Expertise in: Carajás, Sao Felix do Xingu, Iriri, Pitinga, North of Goiás, Rio Grande Shield, Ribeira Valley, Southern Rondonia, Rondonia Tin Province, San Ramon / Bolivia, West of Roraima, Iron Quadrangle, Amapá, Bahia, Guyana, Peru, Rio de Janeiro and Pernambuco (operation for primary Ilmenite).

Evaluation of Mineral Deposits: Responsibility for activities of detailed mineral deposits evaluation involving extensive drilling programs for:

- ❖ Gold – Serra Pelada, Tassawini (Guiana), Cassiporé, Colorado do Oeste, Monte do Carmo, Traíras, Caparro e Novo Planeta;
- ❖ Copper/Gold – Araraquara/São Félix;
- ❖ Alluvial tin – Antônio Vicente/São Raimundo, Massangana, São Francisco, Pitinga, Bom Futuro e Surucucus;
- ❖ Saprolitic tin – Pitinga;
- ❖ Primary tin – Pitinga, Bom Futuro, Correias/Itapeva, Jabá e Henrique (Antônio Vicente);
- ❖ Criolite – Pitinga;
- ❖ Xenotime – Pitinga;
- ❖ Black sands (Ilmenite, Zirconite and Rutile) – São José do Norte/RS (Bojuru, Retiro and Estreito districts);

- ❖ Participation and supervision of the Salobo and Pojuca copper exploration projects and the Babaçu/Mamão gold exploration project;
- ❖ Primary ilmenite – Riacho da Posse deposit.

Opportunity Assessments/Due Diligences: Technical coordination of evaluation of mining companies involving verification of reserves, facilities, mining methods and processing methods and installations.

- ❖ Huanuni – Underground tin mine – Bolívia;
- ❖ Colquiri – Underground zinc and tin mine – Bolívia;
- ❖ Catavi – Recovery of tin tailings – Bolívia.
- ❖ Potosi – Silver mine – Bolívia;
- ❖ Casapalca – Underground Zinc, Lead and Silver mine and concentrates production facilities - Peru;
- ❖ Yauricocha – Underground Zinc, Lead and Copper mine and concentrates production facilities– Peru;
- ❖ Brisas Del Cuiuni/Km88 – Veins and saprolitic gold deposits – Venezuela;
- ❖ Santa Barbara – Tin mine – Primary ores and deep alluvial deposits – Rondônia State, Brazil;
- ❖ Chapada – Analysis of the copper-gold prefeasibility study – Goiás State, Brazil;
- ❖ Morro do Leme – Silicate nickel deposit – northern Mato Grosso State, Brazil;
- ❖ Ipanema – Silicate nickel deposit – northeastern Minas Gerais State, Brazil;
- ❖ Curimbaba – Bauxite deposits – Manhuaçu, Minas Gerais State, Brazil;
- ❖ Caraíba – Validation of copper resources for underground mining activities – Bahia State, Brazil;
- ❖ Nova Esperança – Validation of copper resources – southern Pará State, Brazil;
- ❖ Mocambo – Appraisal of the potential of Sn – W occurrences – Southern Pará State, Brazil;
- ❖ Custódia – Preliminary evaluation of an iron ore deposit – Pernambuco State, Brazil.

Conceptual Projects/Viability studies: Participation and coordination of conceptual projects and viability studies of mineral deposits.

- ❖ Serra Pelada – Gold (1982);
- ❖ Pitinga – Criolite;
- ❖ Pitinga – Tin in primary hard rock (first study, 1994);
- ❖ Casapalca – Evaluation of zinc, lead and copper mine, for acquisition;
- ❖ Vera Cruz/Miltônia – bauxite – Pará State, Brazil;
- ❖ Bujuru – Ilmenite, zirconite and rutile in beach sands – São José do Norte – Rio Grande do Sul State, Brazil;
- ❖ Boquira – Iron deposit – Bahia State, Brazil;
- ❖ Floresta – Primary ilmenite deposit – Pernambuco State, Brazil;

- ❖ Espinheiro – Manganese deposit – Licínio de Almeida, Bahia State, Brazil.

Economic Exploitation Plans: Coordination of Economic Exploitation Plans (Brazilian Mineral Law) and of feasibility studies of heavy mineral sand deposits.

- ❖ Bujuru – São José do Norte – Southern Rio Grande do Sul State, Brazil;
- ❖ Retiro/Estreito – São José do Norte – Southern Rio Grande do Sul State, Brazil.

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Technical audits of exploration works:

- ❖ Buriti – Manganese deposit – extension of the Buritirama mine – Pará State, Brazil;
- ❖ 118 – Oxide-sulphide copper deposit – Carajás – Pará State, Brazil;
- ❖ Alemão – Sulphide copper deposit – Carajás – Pará State, Brazil;
- ❖ Breves – Sulphide copper deposit – Carajás – Pará State, Brazil;
- ❖ Gameleira – Sulphide copper deposit – Carajás – Pará State, Brazil.

EXPERIENCE WITH IRON ORES

- ❖ Carajás – Geological mapping of the N4E and N5 orebodies – 1968 – US Steel;
- ❖ Corumbá, Mato Grosso do Sul State, Brazil – Evaluation of the deposits owned by Grupo Chama, for acquisition by MMX;
- ❖ Amaparí, Amapá State, Brazil – Resource estimates for MMX (Future mina 66);
- ❖ Boquira – Definition of potential iron ore resources – Bahia State – Metaldato e Carlos Borges;
- ❖ Piba – Reconnaissance and definition of the potential resources of iron ore deposits in the Casa Nova (Bahia State) and Dom Inocêncio (Piauí State) regions – Metaldato e Carlos Borges;
- ❖ Miguel *Bournier* – Definition of potential resources of iron ore deposits – Iron Quadrangle – Minas Gerais State – For BHP;
- ❖ Várzea do Lopes – Check of the preliminary iron ore resource evaluation – Iron Quadrangle – Minas Gerais State – For BHP;
- ❖ Fazenda Gongo Soco – Verification of potential resources in the extension of the Gongo Soco (VALE) iron ore deposit – Iron Quadrangle – Minas Gerais State – For BHP;
- ❖ Viga – Deposit in the neighborhood of the Casa de Pedra (CSN) deposit – Iron Quadrangle – Minas Gerais State -- Analysis of Data Room documents and check of resources – For Mitsubishi;
- ❖ AVG and Minerminas iron ore deposits (MMX) – Iron Quadrangle – Minas Gerais State – Resources and reserves validation audit – For Tata Group;
- ❖ São Cristóvão – Verification of inferred resources – Iron Quadrangle – Minas Gerais State – for acquisition by MMX;

- ❖ Grão Mogol – Verification of indicated resources of iron ore deposit in the Salinas region – Minas Gerais State – Mitsubishi;
- ❖ Gualaxo – Preparation of an exploration drilling programme for the tendering of this deposit by the governmental agency (DNPM) – Mariana - Iron Quadrangle – Minas Gerais State – for Mitsubishi;
- ❖ 69 Iron Deposit – Due diligence of this Anglo American Ferrous deposit – Check of resources and reserves, short-term mining plan, plant capacity and forecast of production scale - GEEIC.

EXPERIENCE WITH MANGANESE ORES

- ❖ Buritirama - Bahia State – Preliminary evaluation works (trenching and drilling);
- ❖ Dom Silvério and São Domingos do Prata areas – Minas Gerais State – Mapping of principal deposits – For Tratex;
- ❖ Serra do Estreito and Buritirama regions – Bahia State – Compilation and reconnaissance of manganese occurrences – For Chinvest;
- ❖ Licínio de Almeida and Jacobina areas – Bahia State – reconnaissance of manganese deposits and occurrences for acquisition.

EXPERIENCES OUTSIDE BRAZIL

- ❖ Exploration for tantalum deposits - San Ramon - Bolívia
- ❖ Evaluation of gold deposits - Tassawini – Guayana
- ❖ Studies on the recovery of metals from metallurgical slags - Perú
- ❖ Technical visits to mines and mining districts:
 - USA: Carlin and Homestake – gold;
Empire, Tilden, Taconite and North Shore – iron.
 - AUSTRALIA: Mount Isa – zinc, lead and copper;
Broken Hill – zinc and lead;
Olimpic Dam – copper and uranium;
Karlgoorlie – gold and;
Kambalda – nickel.
 - CANADA: Hemlo and Dome – gold;
Sudbury – nickel and copper;
Ked Creek – zinc and copper.

FOREIGN LANGUAGES

Spanish - Fluent.

English – Basic knowledge.

PAPERS PRESENTED IN CONGRESSES AND MEETINGS

Complexo Ígneo Ácido da Região Central do Pará – Co-autor X Conferência Geológica Interguianas – 1975 – Belém;

Depósitos de Cassiterita do Granito Antônio Vicente – XXXI Congresso Brasileiro de Geologia - 1980 – Camboriú;

Geologia Preliminar do Depósito de Ouro de Serra Pelada – Co-autor I Simpósio de Geologia da Amazônia – 1982 – Belém;

Geologia Estrutural e Mineralização Aurífera de Serra Pelada – Co-autor XXXII Congresso Brasileiro de Geologia – 1982 – Salvador;

Considerações Preliminares Sobre Ocorrência de Wolframita no Sul do Pará - Co-autor XXXII – Congresso Brasileiro de Geologia – 1982 – Salvador;

Granito Madeira: Petrologia, Petroquímica e Mineralizações – Co-autor II Simpósio de Geologia da Amazônia – Belém – 1985.

Caracterização Geológica dos Granitos do Pitinga - Brasil – Co-autor Congresso Latino Americano de Geologia, 6 – Bogotá – 1985;

Geochemistry, Mineralization and Age of Tin Bearing Granites from Pitinga, Northwestern Brazil – Co-autor International Symposium on Granites and Associated mineralization Revista Brasileira de Geociências – Vol. 17 – pp. 562-570 - 1987;

Depósitos Primários de Criolita, Cassiterita, Xenotímio e Columbita em Apogranito – Mina do Pitinga – Co-autor XXXVII Congresso Brasileiro de Geologia - São Paulo – 1992;

The Albite Granite of Pitinga Mine: Petrography, Geochemistry and mineralization's - Co-autor VI Symposium on Rapakivi Granites and Related Rocks – 1995 – Belem;

Faciologic mapping and Preliminary Petrography of the Palanqueta Albite Granite, Bom Futuro – Rondônia - Co-autor VI Symposium on Rapakivi Granites and Related Rocks – Belém – 1995;

The Cryolite Massive Ore from Pitinga Mine, Amazonas, Brazil - Co-autor II Symposium on Granites and mineralization's in Related Rocks - Salvador – 1997;

Geochemical Characteristics of Cryolite-Tin-Bearing Granit's from Pitinga Mine, Northwestern Brazil - A Review - Co-autor – Journal of Geochemistry Exploration – Vol. 40 – pp. 371-391 - 1991;

Tin-Bearing Sodic Episyenites Associated with the Proterozoic, A Type Água Boa Granite, Pitinga Mine, Amazonian Cráton, Brazil - Co-autor Gondwana Research, V. 5, No 2, pp. 435-451 - 2002.

Brasil – De exportador a importador de Sn – VII Simpósio de Geologia da Amazônia – Novembro 2003