

# **HISTORY OF THE MINING PROCESS AND MINERAL RIGHTS OF THE TERMAIS CHAPADA DOS VEADEIROS PROJECT AND THE HYPERTHERMAL WATER DEPOSIT AND HANUMAN I WELL/ SOURCE**

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By Uarian Ferreira\*



**HANUMAN**  
water

# INTRODUCTION



**E**verything began on a late afternoon in 2007, when the steam from the hot waters rose between the rocks of the Chapada dos Veadeiros, transporting me back to my childhood—memories of my father building access bridges to Caldas Velhas. In that moment, with no technical studies in hand, only my heart beating strongly, I knew: I had found something that would transcend generations. This was not just another thermal spring, but a liquid legacy that our family would be honored to protect.

The Hanuman Water Token (HWT) is the materialization of this dream. A pioneering digital contract, structured on blockchain and backed by a vital physical asset: the millennial hyperthermal mineral water of the Hanuman Deposit, located in the Chapada dos Veadeiros—a UNESCO World Natural Heritage site. With applications in the cosmetic, wellness, premium food, and emerging technology markets, the HWT introduces a new asset class: a vital, pure, regenerative, and traceable liquid resource.

Building on the revolutionary vision outlined in *The Future Post-Bitcoin: The Revolution of Utility Digital Assets*, where the HWT is positioned as a sustainable alternative to speculative cryptocurrencies like Bitcoin, this article delves into the historical and legal foundation that underpins this innovation. Furthermore, it complements *From Cosmos to Quantum, a Resource from Central Brazil Can Illuminate the Future*, which explores the cosmic origins and quantum potential of the Hanuman Water, by providing the tangible evidence of its discovery, development, and secure mineral rights.

We at Hanuman are not a large mining corporation. We are a family of guardians—armed with shovels and big dreams. While the world chased Bitcoin, we dug wells (literally!) guided by intuition and science. With every meter drilled, we confirmed: this water carries 9,270 years of history through quartz veins and the potential to shape the future.



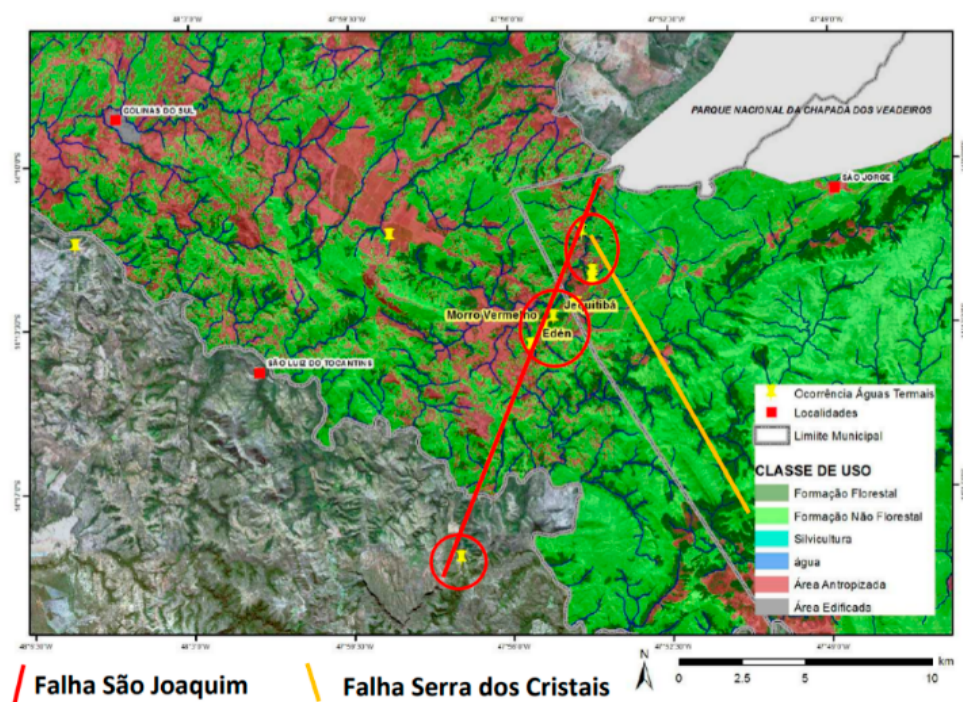
# CREDIBILITY AND HISTORICAL BACKGROUND

The solidity of the HWT rests on technical, institutional, and territorial foundations, the result of nearly two decades of resilient work. The Hanuman Deposit is part of a set of thermal springs emerging along the São Joaquim Geological Fault, spanning the municipalities of Alto Paraíso de Goiás, Colinas do Sul, and Niquelândia. The research, authorized by the National Mining Agency (ANM), was initiated through mining applications filed by Uarian Ferreira, the lawyer and visionary behind the project.

Conceptual Line of the São Joaquim Geological Fault in Chapada dos Veadeiros

In 2007, during a horseback ride in the Morro Vermelho Farm area, along the GO-239 highway in Colinas do Sul (GO), the project's founder first encountered the local thermal springs. This experience evoked childhood memories of the hot waters of Caldas Novas and the ancient Caldas Velhas, where his father worked as a contractor building access bridges to what is now the Rio Quente Resorts.

Since the subsurface in Brazil is owned by the Union and its exploitation requires ANM authorization, the deposits were initially under third-party applications at the time. With their subsequent withdrawal, it became possible to formalize the first research requests between 2012 and 2013.



Conceptual Line of the São Joaquim Geological Fault in Chapada dos Veadeiros



From September 2016, the ANM began issuing research permits, and by early 2017, with the support of architect and urban planner Isabel Borges (Technum Consultoria), the concept project Termas Chapada dos Veadeiros - Opportunity and Socio-Environmental Responsibility was developed, initially focusing solely on the medical-therapeutic balneary sector in harmony with nature.

As studies progressed, additional research applications were filed with the ANM, expanding the investigation areas initiated with the first two applications in 2012 and 2013. Between 2017 and 2020, a total of six research applications covering 2,500 hectares identified three groups

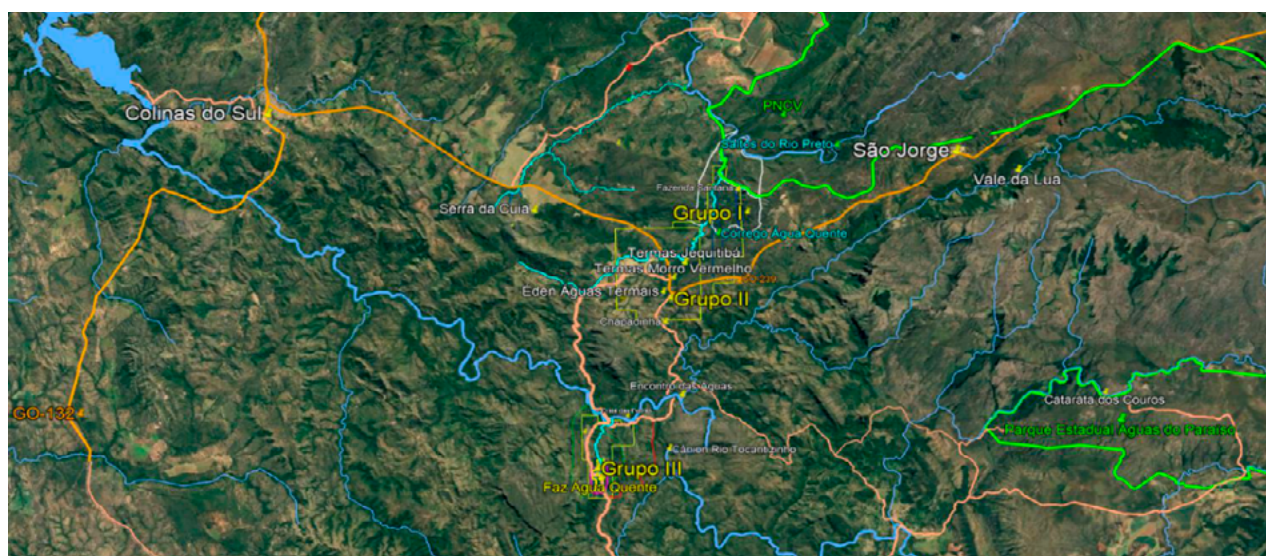
of naturally emerging thermal water deposits along the São Joaquim Geological Fault, with varying temperatures, ages, and hydrochemical characteristics.



Project/Concept: Termas Chapada dos Veadeiros – Opportunity and Socio-Environmental Responsibility  
[http://colinastermais.com.br/arquivos/colinas\\_final.pdf](http://colinastermais.com.br/arquivos/colinas_final.pdf)

THE GROUPS AND THE HYDROCHEMICAL CHARACTERISTICS	TEMPERATURES, AND AGES OF THE SPRINGS
<ul style="list-style-type: none"> <li><b>Group I</b> – PH 4,9 – Ca 0,48 (mg/L), Mg 0,32 (mg/L), Si 5,4 (mg/L), Na 0,33 (mg/L), K 0,53 (mg/L), Cl 0,49 (mg/L, HCO 4,2 (mg/L), SO4 0,38 (mg/L), NO3 0,83 (mg/l)</li> <li><b>Group II</b> – PH 6,2 – Ca 7,97 (mg/l), Mg 3,59 (mg/L), SI 8,4 (mg/L), Na 1,11 (mg/L), K 1,36 (mg/L), Cl 0,52 (mg/L), SO4 1,43 (mg/L), NO3 0,03 (mg/l)</li> <li><b>Group III</b> – PH 7,8 – Ca 31,98 (mg/L), Mg 12,440 (mg/L), Si 13,07 (mg/L), K 3,24 (mg/L), Na 4,79 (mg/L), Cl 1,22 (mg/L), HCO 211 (mg/L), SO4 4,31 (mg/L), 0,5 (mg/L)</li> </ul>	<ul style="list-style-type: none"> <li><b>Group I</b> – (Mun. Alto Paraíso) Temperature ~27oC – Age: 1.352 Yars* Antes do Presente.</li> <li><b>Group II</b> – (Mun. Colinas do Sul / Alto Paraíso) Temperature ~32 a 34oC – Age: - 2.281 yarss* AP.</li> <li><b>Group III</b> – (Mun. Niquelândia/Tocantinzinho) Temperature ~42oC – Age: 9.270 yars* .</li> </ul> <p>(*) Date Carbon-14 and exam of Tricio</p>

Research conducted at the University of Brasília's Geochemistry Laboratory, including M.Sc. thesis by Tassiane Junqueira and peer-reviewed publication in Elsevier



Identified in the Termas Chapada dos Veadeiros Project, along the São Joaquim Geological Fault, under ANM authorization (Zoom 300).



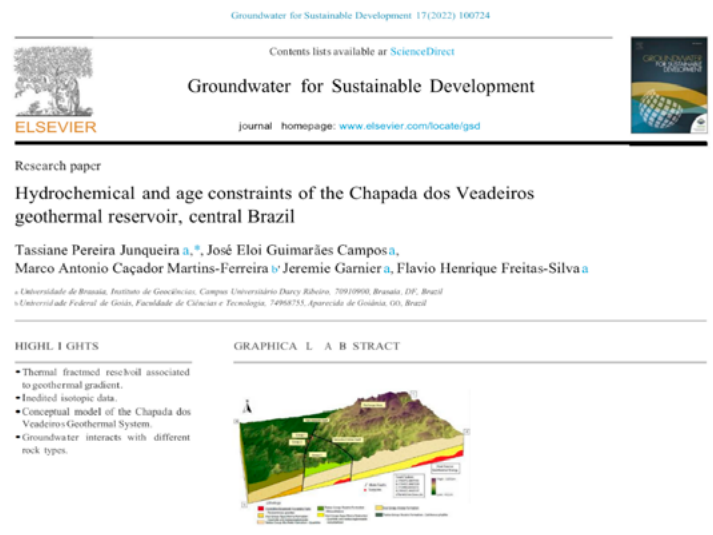
# ACADEMIC COLLABORATION AND INSTITUTIONAL RECOGNITION

The project's scientific credibility was reinforced by active academic engagement, resulting in the peer-reviewed article: "Hydrochemical and age constraints of the Chapada dos Veadeiros geothermal reservoir, central Brazil" Published in Groundwater for Sustainable Development (Elsevier, January 2022) – the foremost scientific journal in hydrogeology. [Article link.](#)

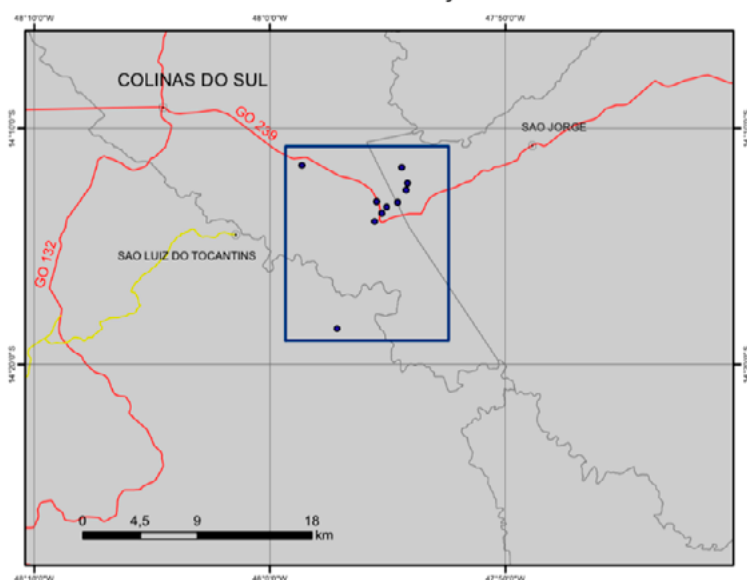
This study was based on the master's thesis of geologist Tassiane Junqueira, approved with honors by the University of Brasília's Geoscience Institute (February 2020). [Thesis link.](#)

Official Endorsement by Goiás State Authorities In December 2021, the Mining Superintendence (SMIN) and Mineral

Development Office (GEDAM) of Goiás' Secretariat of Industry and Commerce (SIC-GO) formally recognized the region's potential to become a "Thermal Water Tourism Hub", mapping the project's thermal springs as core development zones.



MAPA DE LOCALIZAÇÃO



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# MINERAL RIGHTS AND SURFACE OWNERSHIP OF THE HANUMAN DEPOSIT - GROUP III

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**T**he legal security of the Hanuman Water Token (HWT) is supported by a robust structure of mineral ownership and consolidated surface control. Since 2020, Hanuman Minas Ltda has held 100% of the mineral rights to the Hanuman Deposit, located in Niquelândia (GO), through the ANM process 860.360/2017, covering an area of 48.96 hectares.=

Beyond subsurface control, Hanuman Minas' partners have fully acquired the surface ownership and immediate surroundings of the deposit, totaling 105 hectares. This dual control—mineral and territorial—ensures complete autonomy and security for the project's implementation, including exploration, bottling infrastructure, balneary development, and environmental preservation. Additionally, the complementary mining application ANM 860.317/2019, covering 460.09 hectares and also under direct partner control, expands the project's strategic reserve and protects the immediate surroundings. This configuration reinforces the commitment to responsible, environmentally controlled, and legally secure exploitation.

This is a rare scenario in Brazil's mining sector: a project with full synergy be-

tween legal ownership, territorial dominion, and direct environmental management—attributes that provide HWT ecosystem participants with a high degree of operational security, institutional transparency, and traceability of the utility asset, backed by a real, technically validated deposit. This is not a promise of financial return, but concrete access to a vital resource under an innovative model of water governance and socio-environmental responsibility.

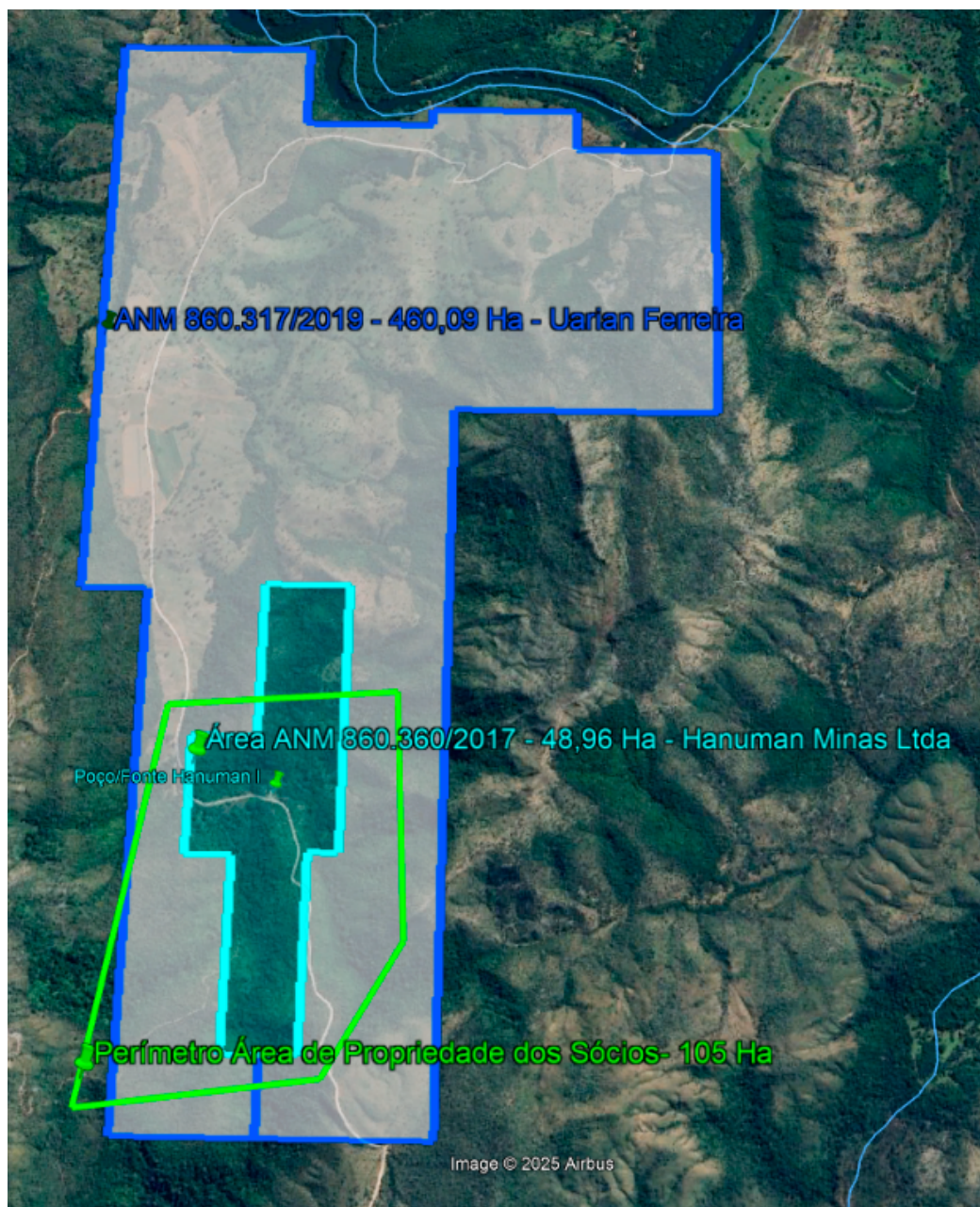
The Hanuman Project extends beyond the Group III Deposit. Over more than a decade of studies and applications filed with the ANM, a true hydrothermal corridor has been established under the technical, legal, and territorial dominion of the entrepreneurial group.

The areas currently under research authorization total over 2,000 hectares across the municipalities of Niquelândia, Colinas do Sul, and Alto Paraíso de Goiás, encompassing the three hydrochemical groups of emerging waters along the São Joaquim Geological Fault. This mapped set forms a multigenerational geothermal bank with potential for sustainable industrial, therapeutic, scientific, and tourist developments over the coming decades.



This planning, conducted in dialogue with science and respect for the geodiversity of the Chapada dos Veadeiros, ensures that the HWT is not backed by an isolated asset but is anchored in a larger, territorially robust, and strategically positioned project, aligned with the global markets for water, sustainable technologies, and regenerative well-being.

The preservation of the surroundings, expanded aquifer control, and commitment to water as a collective good make the HWT a symbol of a new economy: not speculative, but oriented toward real utility, respect for nature, and territorial regeneration—with traceability, transparency, and intergenerational justice.



Mineral rights portfolio of the Termas Chapada dos Veadeiros Project, encompassing thermal water deposits along the São Joaquim Geological Fault in the municipalities of Niquelândia, Colinas do Sul, and Alto Paraíso de Goiás

# OFFICIAL PRODUCTION TEST OF THE HANUMAN I WELL/SOURCE

In October 2022, the Hanuman I Tubular Well was drilled, reaching one of the geological faults at a depth of 108 meters: location SIRGAS 2000: Lat. S 14°18'28.0" / Long. W 047°57'06.8" (ANM 860.360/2017).



Momento do Encontro da Falha – 108 metros/Poço Tubular Hanuman I:  
<https://www.dropbox.com/s/yj9cee2r9udr6zs/VIDEO-2023-01-11-23-12-32.mp4?dl=0>



# OFFICIAL WATER SAMPLE COLLECTION BY LAMIN/CPRM/ANM

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**T**he year 2023 was dedicated to sample collection by the Mineral Analysis Laboratory of the National Mining Agency (LAMIN/CPRM/ANM) directly at the source.





# OFFICIAL PRODUCTION TEST OF THE HANUMAN I WELL/SOURCE

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In August 2024, Brazil's National Mining Agency (ANM) conducted the official production test of the Hanuman I Well/Source.



Documentation of the August 2024 flow rate testing at the Hanuman I Well, performed under ANM (Brazil's National Mining Agency) supervision  
[www.dropbox.com](http://www.dropbox.com) | [www.dropbox.com](http://www.dropbox.com) | [www.dropbox.com](http://www.dropbox.com)

## TECHNICAL RESULTS

Tested Flow Rate: 649 m<sup>3</sup>/h

Commercial Exploitation: 95 m<sup>3</sup>/h for 14 hours daily (1,335 m<sup>3</sup>/day)

Report: Refer to the article COMPARATIVOS DA ÁGUA HANUMAN E ÁGUAS MINERAIS PREMIUM E TERMAIS SPRAY for detailed flow test results.



# NATURAL SPRINGS OF THE HANUMAN DEPOSIT



**N**ear the Hanuman I Well/Source, the earth reveals its millennial secret: dozens of “ferveiros” (boiling springs, as called by local elders) bubble with hyperthermal water at 42°C along the bed of the Resfriado Stream. This poetic name arises from the daily geothermal dance: when the hot waters of the springs meet the cold current, sometimes creating mists that shroud the landscape in mystery.

The Resfriado Stream is not merely a geographical feature. It is living proof that, even in nature, opposites—hot and cold, ancient and new—can coexist in harmony. It is this lesson we aim to share with the world through the HWT.

## Set of Natural Springs That Impress

Estimated Flow: >1,200 m<sup>3</sup>/day (equivalent to 120 full water trucks per day)

Aquifer Depth: >100 meters beneath preserved soil layers

Continuous Thermal Activity: Stable temperature for 9,270 years (Carbon-14 dating)

These natural springs have the potential to supply an entire city, but we choose to exploit this treasure with the care it deserves: each drop is extracted patiently, like harvesting fruit at its peak. Ongoing studies are exploring the feasibility of channeling for 24-hour medical-therapeutic and integrative immersion stations that leverage the natural collection flow.

Complete visual documentation of all site visits, scientific research activities, and environmental rehabilitation efforts conducted at the Hanuman Deposit and surrounding area (2012-present) is available in the LIVING HISTORY: IMAGES AND VIDEOS OF HANUMAN DEPOSIT/SOURCE



Geólogos e professores do  
Instituto de Geociências da  
Universidade de Brasília  
nas surgências naturais de  
águas hipertermais da Jazida  
Hanuman – Grupo III – Córrego  
Resfriado

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# MINING PROCESS PHASE AND HWT SECURITY

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**A**pril 2025 marks a turning point in the mining process of Hanuman Minas Ltda: the ANM process 860.360/2017 is in the phase of submitting the Final Research Report for technical review and the subsequent legal one-year period for presenting the Economic Utilization Plan (PAE). Upon completion of this stage, the process will proceed to the issuance of the Mining Permit by the Ministry of Mines and Energy—the final regulatory milestone before full exploitation of the deposit begins.

It is worth noting that Brazilian mining law is recognized for its legal security and institutional stability. However, administrative delays—reflecting decades of insufficient technical staffing at the ANM—impose a systemic slowness, particularly challenging for smaller entrepreneurs like us. This is even more critical for mineral and thermal water projects, governed by a 1944 legal framework that, while historically significant, has become an outdated obstacle for innovative and regenerative projects like ours.

Despite this restrictive scenario, the Hanuman Water Project advances with courage and innovation—and breaks paradigms.

While the sector's tradition demands

long waiting periods until the Mining Permit is issued before production can begin, we have chosen a new path, albeit demanding: completing all technical and structural stages—including the well, official tests, business model, and blockchain governance—before the final mining phase. Instead of waiting passively, we have transformed this delay into the creation of value, reputation, and transparency.

Hanuman Minas Ltda and the HWT emerge as a vanguard movement within the mining sector. This project was not born from speculation but from the integration of science, spirituality, technology, and purpose. The Hanuman Water Token (HWT), built on blockchain, is the first digital contract backed by Brazilian millennial hyperthermal water—born with traceability, security, and a long-term commitment to the land and future generations.

By uniting the ancestral wisdom of the waters with contemporary resources like artificial intelligence and blockchain technology, we have constructed a real, viable, and feasible economic model, with proven technical viability and full control over the mining and surface rights of the deposit. The HWT is not an abstract promise: it is the liquid reflection of an as-



set already drilled, tested, and validated by public and scientific institutions.

At this moment, we invite investors to recognize the historical and strategic value of supporting a project that represents a conscious break from the past and a concrete commitment to the future. The HWT is the key to a new cycle

of Brazilian mining: more transparent, more humane, more integrated with nature and technology.

The Hanuman Water Token is not just a means of accessing water. It is a vote of confidence in a renewing Central Brazil—with ethics, innovation, and beauty.

## THE ESSENCE OF THE PROJECT

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**T**he HWT was born from a simple question: “How can we share this gift without becoming just another company bottling magic?” The answer came from ancient times—when communities shared their springs. Each token is like a digital jar: your guarantee that, when the water flows, you will have your share reserved. This is not an investment; it is a pact. And in our family, a pact is a word that is never broken.

Os netos brincando nas surgências naturais



# TRANSPARENCY ABOUT CHALLENGES

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**Y**es, we still face regulatory stages ahead. But watching my grandchildren play in the natural springs, seeing geologists and University of Brasília professors collect samples, and receiving support from the Garimpinho Village community, I learned: good things take the right amount of time. Every HWT sold will help us get there—and if something delays, know that as long as water bubbles in the Resfriado Stream, the promise will remain alive for generations.

## CONCLUSION

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**I** believed when it was just a promise—the one the Chapada had hidden in a ravine so remote that time, after nine millennia of solitary guardianship, entrusted us to honor it. And now, at this sacred threshold between geology and the future, that promise is revealed: the Hanuman Water Token.

To those who arrive first at the spring—with pioneering zeal and a guardian’s heart—will be reserved a unique place in this story. Just as the waters have flowed uncontained for eras, the first HWT holders will have their recognition and preferences etched into the memory of this liquid legacy.

To explore the visual journey of the discovery and evolution of visits, research, completion, and operation of the Hanuman I Well/Source, visit the article [LIVING HISTORY: IMAGES AND VIDEOS OF THE HANUMAN DEPOSIT/WELL](#).

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(\*) Uarian Ferreira - Son of a geography teacher and a bridge-building, utopian accountant, husband to an English teacher, father of four children, grandfather of four grandchildren, a lawyer passionate about chivalric ideals.

Lawyer - OAB-GO 7,911

Ideator and holder of the Termas Chapada dos Veadeiros Project, Managing Partner of Hanuman Minas Ltda

Note: Benefits and preferences for pioneers will be outlined in the Hanuman Minas Ltda Recognition Policy - Loyalty Program not linked to the HWT.