



PROOF POSIT

Robinhood Chain block production

Robinhood Chain Produced Blocks Without Interruption on 4 September 2026 - second edition

DOCUMENT CONTROL NUMBER	JFD-20260928-PP-00002
CLASS OF RECORD	resolved
DATE	2026-09-28
COVERAGE	2026-09-04T00:00:00Z → 2026-09-04T23:59:59Z
SOURCE FINGERPRINT (SHA-256)	619fa96210cef445b1eb4bde7ed25a73205780396a1b053fc2cd2db2b78fd44a
VERIFICATION	https://gh.jetfyul.com/v/JFD-20260928-PP-00002

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The pages that follow are the full text of this document's exact source, set as readable pages. The SHA-256 printed in every footer is the fingerprint of that source. The seal of this document — its ledger event, both hardware witnesses and its Bitcoin anchor — is recorded at the verification address above, not in these pages.

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PROOF POSIT PP-005

MASTHEAD

Field	Value
Proof Posit	PP-005 (<i>PP-004 is reserved for the AEP reconciliation</i>)
Subject	Robinhood Chain (chain ID 4663)
Title	Robinhood Chain Produced Blocks Without Interruption on 4 September 2026
Date	[date of seal, UTC]
Measurement window	Primary: 2026-09-04 00:00:00 – 23:59:59 UTC. Context: 2026-07-01 00:00:00 UTC to block 62,471,946 (2026-09-14 03:00:01 UTC).
Pinned at	Block 62,471,946 · hash 0x6be6970fbf6ebda579ae87bad4df04a3b7dd14486a40508a747d079fbef462eb
Chain	Robinhood Chain, chain ID 4663 (an Arbitrum Orbit chain settling to Ethereum)
Surface	Index: Glass Hull's own full-history block index (A1), whose population is proven identical to our archive extraction. No third-party endpoint or explorer was used for any figure.
Method hash	fea53b1c83bc9b7f4819eefa459d7178b1cbcd7b4cf7cadad0fb924086b91029 (Glass Hull ledger, kind-3 3147511) · Method frozen 2026-09-25 14:27:03Z after exploratory measurement; the sealed figures are the re-run under the frozen method.
Re-run hash	17fedf045ed4060954b8c6a1d95ab5721c194a3a387b9d5cbfb04c93529a31f6 (primary: 4 September, full day)
Supersedes / Corrects	None
Subject notice	Subject not contacted
How to cite	Glass Hull, Proof Posit PP-005, "Robinhood Chain Produced Blocks Without Interruption on 4 September 2026," Jet Fyul Dynamics LLC (2026), gh.jetfyul.com/posits/PP-005/

I. SUMMARY

On 4 September 2026, published reports described Robinhood Chain as having stopped for about 14 minutes beginning about 12:57 UTC (for example [crypto.news](#), archived [web.archive.org/web/20260924200651/...](#)).

We measured every block the chain produced that day, from its own permanent record.

- **Block production never stopped.** Robinhood Chain produced 854,255 blocks carrying 13,978,496 transactions across all 1,440 minutes of the UTC day.
- **No minute fell short.** The lowest count in any single minute was 548 blocks.
- **The longest interval between consecutive blocks was 2 seconds.**

- **At the reported time, the chain ran normally.** In the minute beginning 12:57 UTC it produced 592 blocks, and the Ethereum reference the chain records advanced every minute of the day.

Since public mainnet opened on 1 July 2026, the longest interval between consecutive blocks is 16 seconds. It fell on the launch morning, 1 July at 05:35 UTC.

What paused was the chain's posting of data to Ethereum: 14 minutes in total, before 12:57 UTC. What we cannot see from the chain is whether any front end, public endpoint, or explorer was unavailable to users; Arbitrum reported a brief impact on infrastructure providers that rely on the chain's data stream. Section IV states that boundary.

II. METRIC OBJECTIVE

The public claim under test. Reports dated 4 September 2026 stated that Robinhood Chain stopped producing blocks for about 14 minutes from approximately 12:57 UTC, and that roughly 8,400 block intervals were missed. (crypto.news, "Robinhood Chain suffers 14-minute network outage", archived web.archive.org/web/20260924200651) The Defiant's same-day analysis reported that the chain did not stop (archived web.archive.org/web/20260924200411/...), and Arbitrum stated there was no downtime (self-archived, ledger 3133716).

What we measured. Whether the chain produced blocks continuously on 4 September 2026 (UTC):

- blocks produced per minute
- the longest interval between consecutive blocks
- whether the chain's recorded Ethereum reference advanced each minute

We measured the same quantities from public mainnet (1 July 2026) to the pinned block, to place the day in context.

The reporting rule. A halt is any interval between consecutive blocks long enough to be seen as a stop. We report every interval exactly, and state the longest.

III. FINDINGS

Measure	4 September 2026 (UTC)
Minutes observed	1,440 of 1,440
Blocks produced	854,255
Transactions	13,978,496
Fewest blocks in any minute	548
Minutes with fewer than 500 blocks	0
Longest interval between consecutive blocks	2 seconds
Minutes in which the recorded Ethereum reference did not advance	0

The reported window, 12:30–13:30 UTC, minute by minute:

- Every minute produced between 563 and 657 blocks.
- The longest interval was 2 seconds.
- Transactions ran between 4,245 and 17,423 per minute.
- The 12:57 UTC minute: 592 blocks (54,282,091 to 54,282,682) and 5,868 transactions.

Context, public mainnet to the pinned block:

Measure	Value
Longest interval between consecutive blocks since 2026-07-01 00:00 UTC	16 seconds, block 678,037, 2026-07-01 05:35:35 UTC
The next four longest	13 s, 13 s, 12 s, 11 s, all within the launch morning of 1 July

III.i PROOFS (ABRIDGED)

Pass arm. The block record for 4 September 2026 is complete and continuous: 1,440 minutes, 854,255 blocks, longest interval 2 seconds, zero minutes under 500 blocks. It is re-run as 17fedf045ed4060954b8c6a1d95ab5721c194a3a387b9d5cbfb04c93529a31f6.

The reported window at per-minute resolution is re-run as 87169581e67c858c95d342f9bffb6fbd7b1b8f04d7e1b7ef7cfe5db88323f1ea8.

Refute arm. The same interval measurement returns long silences where they exist. Over the chain's full history it finds intervals of 252,948 s, 186,880 s, 81,912 s and 64,965 s, all during the pre-launch period of April–May 2026, before public mainnet. The instrument therefore does detect a stop when one is present.

- Full history: re-run 7bdc155659455ce77dd0e716402113311022baf3aff6d04a8e33be59143709b3
- Since public mainnet: re-run b86da9693c639a1fdd62c94c7ff40040cb184913447e45fc16372bdac25d0e8f

Population. Every block from genesis to 62,471,946. The index population is proven identical to Glass Hull's archive extraction, and coverage is continuous with no missing range.

Contracts and addresses. None; this finding concerns block production only.

Corroboration. Attestation 3095118 (1–6 September 2026: longest interval 2–4 s per day, zero intervals of 5 s or more) is consistent with this result.

IV. LIMITS OF OBSERVATION

1. **Service availability is not observable from the chain.** Our record shows blocks produced and transactions included. It does not show whether a wallet, front end, public endpoint, indexer or block explorer was reachable. If users could not submit or see transactions during the reported window, the cause lay outside block production, and the chain's own record cannot identify it.
2. **Posting to Ethereum is a separate process.** Robinhood Chain periodically posts batches of its data to Ethereum. On 4 September 2026 that posting paused twice for long periods:

- from 12:29:47 to 12:38:23 UTC (516 seconds)
- from 12:42:47 to 12:48:11 UTC (324 seconds)

That is 840 seconds, 14 minutes in total, while the chain itself kept producing blocks (Glass Hull record 3137609). Two shorter gaps followed, at 13:34:47 UTC (144 seconds) and 13:45:59 UTC (132 seconds). All of these fall before or after the 12:57 UTC time given in the reports, not at it.

Arbitrum stated that day: "Robinhood Chain experienced no downtime. Earlier today, Robinhood Chain experienced batch posting delays due to L1 market blob behavior. Direct user transactions experienced no delays." (x.com/arbitrum/status/2095939844987891760, 2:19 PM ET, 4 September 2026; Glass Hull signed-in capture, sha256 213385cb..., OpenTimestamps-stamped.)

Ethereum's public record for those minutes shows the following (Glass Hull record 3137956):

- In both long pauses, the batch poster's last standing bid for blob space **exceeded** the blob base fee charged in every block of the pause: by about 4–13 times in the first, and about 4.5–8.8 times in the second.
- The first posting after each pause carried a higher bid.

The blob base fee alone therefore does not account for either pause. Whatever else delayed inclusion is not observable from included transactions, because replaced or dropped submissions leave no trace in chain data. We state no cause.

3. **Timestamps have one-second resolution**, so an interval under one second cannot be measured more finely than that.
4. **We did not contact Robinhood** and have no access to its internal systems or incident records.

V. CONCLUSION

Robinhood Chain produced blocks without interruption throughout 4 September 2026, including at and around 12:57 UTC. Within the limits stated in Section IV, the chain's own record does not support a description of that day as a halt in block production. Since public mainnet opened, the chain has not gone more than 16 seconds without producing a block.

This finding measures block production. It draws no conclusion about any party's statements, systems or intentions.

VI. GLOSSARY AND DEFINITIONS

- **Block.** A unit of the chain's permanent record, containing zero or more transactions.
- **Interval between consecutive blocks.** The difference in recorded timestamps between one block and the next, in seconds.
- **Recorded Ethereum reference.** The Ethereum block number each Robinhood Chain block records as its reference point.

- **Posting to Ethereum.** The separate process by which the chain's data is written to Ethereum.
 - **Pinned height.** The last block included in the measurement, identified by number *and* hash.
 - **Both arms.** The pass arm shows the result. The refute arm shows the same method would have returned the opposite result had it been true.
 - **Re-run hash.** Confirms a result obtained with the method; the method is in The Full Proof.
 - **Frozen method.** A method fixed and hashed before its result was computed.
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VII. ADDITIONAL RESOURCES

If you would like to read more of our series, Proof Posits, you may go [here](#). And if you would like to test yourself against a locked call, our prediction series — The Hull Against the Machine — seals each prediction before the event and reveals it on a timer. Our latest are [here](#). Full readings are published as Full Proofs: some free, others licensed. The Full Proof for this finding, with the complete method, is free [here](#).

SEAL AND VALIDATION

(rendered by the pipeline at seal)

Seal record:

- Sealed: [UTC]
- Witnesses: A9 [serial / signature] · A10 [serial / signature]
- Ledger event: [id]
- Bitcoin anchor (OpenTimestamps): [status, block]
- Document SHA-256: [digest]

To validate this Posit without contacting us:

1. Compute the SHA-256 of this document.
2. Look up the ledger event.
3. Verify both hardware signatures.
4. Verify the Bitcoin anchor.
5. If you prefer, verify on Robinhood Chain itself: it verifies P-256 natively at 0x100 (RIP-7212).
6. Reproduce with the method in The Full Proof, which is free for this finding.

If your bytes differ from ours, kindly let us know publicly or privately. A difference is still a finding.

END OF DOCUMENT · JFD-20260928-PP-00002

NOTE ON THIS DOCUMENT

The pages above reproduce the sealed document. The sealed record is a file.

What the Notary authorised, what both hardware witnesses signed and what the ledger event records is the file JFD-20260928-PP-00002 . pdf - 305091 bytes, SHA-256 a473914fd5e8a71526aab2dc6930c192bb54532bcd191c94a24fbe3b8fe83596.

The sealed document JFD-20260928-PP-00002 . pdf (305091 bytes, SHA-256 a473914fd5e8a71526aab2dc6930c192bb54532bcd191c94a24fbe3b8fe83596) is embedded in this PDF as a file attachment.

The anchor proof as stamped at sealing JFD-20260928-PP-00002 . pdf . ots (786 bytes, SHA-256 07fc00c1449dc9ec811c1a6382f894e379f385d59561d43417ebaddead9118b2) is embedded in this PDF as a file attachment.

Its exact source, whose fingerprint the document prints, PP-005-v2-source . RULED-B . md (11195 bytes, SHA-256 619fa96210cef445b1eb4bde7ed25a73205780396a1b053fc2cd2db2b78fd44a) is embedded in this PDF as a file attachment.

The seal record from which the certificate is built seal-record-JFD-20260928-PP-00002 . json (7296 bytes, SHA-256 e59e486bc1c4ed4c85410ea67946f87a0dd7bfc0d5b9db6dbc3bf4642ae9927b) is embedded in this PDF as a file attachment.

The complete anchor proof, carrying the Bitcoin attestation, JFD-20260928-PP-00002 . pdf . anchored . ots (1718 bytes, SHA-256 cf769dc8a848733b58e50176da293d00dd230e62e5d2ab0a32560a5201cc5053) is embedded in this PDF as a file attachment.

The anchor confirmation from which the certificate's Bitcoin block is taken anchor-confirmation-JFD-20260928-PP-00002 . json (2369 bytes, SHA-256 25d707a54a0447f7eb3050d6f958e2ec91489b9b255ec2c01c0c13d128a7d390) is embedded in this PDF as a file attachment.

Open the attachments pane of your PDF reader to extract them, and hash each file as stored.

What follows, in order

The seal page, carrying the seal record's values: fingerprint, ledger event, both witnesses and the anchor. After it, the Certificate of Authenticity on the Smoking Gun plate, built from the same seal record and signed; then the page "How to verify this without the Issuer, in six steps", which carries the record, both witnesses and the anchor in full, and the steps that verify all of it without the Issuer.

K. L. Phillips

K. L. Phillips, a man

Principal, Jet Fyul Dynamics LLC · The author stands behind every word.



BLOCK 2 — ISSUER

ISSUER Jet Fyul Dynamics LLC · Wyoming
RAIL Matchstick Tribunal
CUSTODY both witness keys held by the issuer, in silicon, on separate hosts; never exported

BLOCK 4 — WHO SIGNED IT

Two independent hardware witnesses. Conforming tests of a defined procedure — not a primary and a backup.

	WITNESS 1	WITNESS 2
chip identity	a9-atecc608b-slot0	a10-atecc608b-slot0
serial	0123ADA0711D8597EE	0123DC797ACC1195EE
curve	ECDSA-P256 (secp256r1)	ECDSA-P256 (secp256r1)
public key	d62d03f8dc3813fb5b74f2b64339d185...	853e69fc700990303abfe61358bfa456...
signature over artifact hash	→ ledger event 3206405	→ ledger event 3206405
signed (UTC)	→ event 3206405	→ event 3206405
federation peer	a10-atecc608b-slot0	a9-atecc608b-slot0
host · custody	A9 · Jet Fyul Dynamics LLC	A10 · Jet Fyul Dynamics LLC
certifies in accordance with	Fed. R. Evid. 902(13), 902(14)	Fed. R. Evid. 902(13), 902(14)
verified offline	→ event 3206405	→ event 3206405

Each signature verifies on its own, against its own public key, without the other and without anything of ours.
One signature is not a seal: if either witness is unreachable, no seal is produced. Both chips are the same make and model, provisioned and owned by the issuer — independent in custody and location, not in supply chain or ownership.
Full public keys, signatures, and the Rule 902(11) certification of a qualified person: ledger event → event 3206405 · <https://gh.jetfyul.com/v/JFD-20260928-PP-00002>

Blocks 1-3 are inside these bytes; Block 4 live cells, Block 5 (Ed25519 a1-ledger) and Block 6 (Bitcoin anchor) live on the ledger and at <https://gh.jetfyul.com/v/JFD-20260928-PP-00002>

GLASS HULL

CERTIFICATE OF AUTHENTICITY · JFD-20260928-PP-00002

JFD-20260928-PP-00002.pdf · 305091 bytes · sealed 2026-09-28T06:16:45Z

Robinhood Chain block production

Certificate JFD-20260928-CERT-00008

a473914fd5e8a71526aab2dc6930c192bb54532bcd191c94a24fbe3b8fe83596

Ledger event 3206405 (kind-15)

A9 0123ADA0711D8597EE · A10 0123DC797ACC1195EE

Bitcoin block 968957 · 2026-09-28T06:28:25Z

a473914fd5e8a715 · ANCHORED · <https://gh.jetfyu1.com/v/JFD-20260928-PP-00002>

K. L. Phillips
Chief Executive Officer

How to verify this without the Issuer, in six steps

Robinhood Chain block production - JFD-20260928-PP-00002

The record

Document control number: JFD-20260928-PP-00002

Fingerprint (SHA-256 of the sealed file, raw bytes as stored):

a473914fd5e8a71526aab2dc6930c192bb54532bcd191c94a24fbe3b8fe83596

Sealed file: JFD-20260928-PP-00002.pdf, 305091 bytes

Source fingerprint printed inside the document:

619fa96210cef445b1eb4bde7ed25a73205780396a1b053fc2cd2db2b78fd44a

Ledger event (kind-15): 3206405, event hash

6a67708046c0f673586d8a91994ec992dab16d2583aad7b467a485927193e4b7

Notary authorisation (kind-3): 3206403

Seal request signed by both witnesses: SHA-256

43cdd85fc124b2ec7f3ba3a92b9a42e2138b91e2193b820eca16d0fb773d3fe8

Anchor: OpenTimestamps, **ATTESTED in Bitcoin block 968957** - block hash

0000000000000000000000001bc4f9512a39d26d0056e2080bbd8313c7c0aca56fd03, block time
2026-09-28T06:28:25Z.

Calendars that attested: <https://alice.btc.calendar.opentimestamps.org> (block 968957). The earliest attested block is the anchor.

Anchor check: the committed value equals block 968957's merkle root

2f7c847efe619875e2e6c5dcf775bf02df4280542df3b32bd56463eba47c2a69, and mempool.space and blockstream.info agree on that merkle root and on the block hash (checked 2026-09-28T07:07:47Z).

Proofs: the proof as stamped at sealing, JFD-20260928-PP-00002.pdf.ots and the complete proof JFD-20260928-PP-00002.pdf.anchored.ots, which carries the Bitcoin attestation itself.

Verification address: <https://gh.jetfyul.com/v/JFD-20260928-PP-00002>

The two hardware witnesses

Witness 1 - host A9, a9-atecc608b-slot0, serial 0123ADA0711D8597EE, curve ECDSA-P256 (secp256r1), signed 2026-09-28T06:16:42.903777+00:00

Public key: d62d03f8dc3813fb5b74f2b64339d185742aabcae1bdcfd2f7a7ad59f1dd3c5d50e57effa4a3c888f58c3eca9d274bd7f0b8d263fa38bbf0bc6fbff6035c2411

Signature: c393d608ad491f8b3065be02bcd622d5c008f2ab86b388586b01e37877a4ef7dfb661b25be63266e8d6aab0abb4f790215c88169238c33bd25423da387f2001

Witness 2 - host A10, a10-atecc608b-slot0, serial 0123DC797ACC1195EE, curve ECDSA-P256 (secp256r1), signed 2026-09-28T06:16:45.147263+00:00

Public key: 853e69fc700990303abfe61358bfa456160eaae1529dbc74805d1639cfc88e78497bbe060e7ae5d54466b2ce0a2753e14204a21eed4a132a61ace3294f9beba1

Signature: 0c4b2b80ce31c5e67254858110e83dcc8d1793cf12b0f1ccac6f37fbfe23027a95ae8ba89b9fd69a5008c720c2a9cd0a4bf56fea41aee712f99cad15bc8b180d

The six steps

- (1) Extract JFD-20260928-PP-00002.pdf from this PDF's attachments and hash it as stored, with no normalisation. Its SHA-256 must equal the fingerprint above.
- (2) Read ledger event 3206405 by its id. Its payload must carry that fingerprint as doc_sha256 and JFD-20260928-PP-00002 as dcn.
- (3) Verify witness 1's signature as ECDSA over P-256, with the public key above, over the seal request bytes whose SHA-256 is 43cdd85fc124b2ec7f3ba3a92b9a42e2138b91e2193b820eca16d0fb773d3fe8.
- (4) Verify witness 2's signature the same way. Each signature must verify under its own key and fail under the other's.
- (5) Read the OpenTimestamps proof against the same fingerprint. It must carry a Bitcoin block-header attestation at block 968957; ask any block explorer for that block and compare its merkle root with the value the proof commits to.
- (6) Open <https://gh.jetfyul.com/v/JFD-20260928-PP-00002> and confirm it shows the same fingerprint, ledger event, witnesses and anchor.

This certificate supersedes an earlier one

This certificate supersedes certificate **JFD-20260928-CERT-00006** (ledger event 3207188, SHA-256 5e4d71bceab023fafdcdb31469dae2b982e65fbbf2ba41d369360344b1c4db45). That certificate was issued before the certificate design of record was applied. Nothing about the certified document changed: the same file, the same fingerprint, the same sealing event and the same two witness signatures. The earlier certificate remains a valid seal of its own bytes; it is no longer the certificate of record.

This certificate goes to what the record is and that it has not been altered. It is not a sworn declaration and does not assert the truth of anything the document says.