

```
logs — -zsh — 95x65
907528
Last login: Tue Aug 5 10:20:19 on ttys003
rosmontos@mac ~ % source /Users/rosmontos/ots_verification/venv/bin/activate
(venv) rosmontos@mac ~ % cd "/Users/rosmontos/Meta_Validation_MVP-01_Auditability_And_Prov
e/logs"
(venv) rosmontos@mac logs % ots --bitcoin-node [redacted]
y audit_log_METAVAL-LOG012_20250728T052124.050186Z.hash.ots

Assuming target filename is 'audit_log_METAVAL-LOG012_20250728T052124.050186Z.hash'
Success! Bitcoin block 907528 attests existence as of 2025-07-28 AEST
(venv) rosmontos@mac logs % ots info audit_log_METAVAL-LOG012_20250728T052124.050186Z.hash
File sha256 hash: f65217404a7b12b08b770971b9f94d16f3da6fc07a824c662dad185090cc0a91
Timestamp:
append 0142dffa92ddc3ea6f0d3fa4ba2bd72d
sha256
-> append 98109e77bafd6abe
sha256
append 45044bee12fb27afee198cb3a905097a
sha256
append 6e59639dfb4e61a2d378c83eb7c2bc054c8f5d1aa294990cecf5bba43ea4817
sha256
append f7c3e96c3154410f6f7d2abfd4752bae4e199f78ff1c357e62b63d4ea3b8ab96
sha256
prepend 688708d5
append 23dd030e6a8310dd
verify PendingAttestation('https://alice.btc.calendar.opentimestamps.org')
sha256
append 7cb79f93ddd9a6ff20614d414f404c8ee15f4d91ff1c5eea03b1f34e67945ca6
sha256
append 612423e44dbe7611e1c4a396500f7e81e0407da3feba06b4d9a876259b4f8bb8
sha256
prepend 29e326b63064f6ab17b264af668ee5c7f7b745855f5eaa6618f52733ef0dc3f1
sha256
append aef09f61325e41ea1c665c2676ca5b2b959855c7b03821ccf6a520fdeb128534
sha256
append 9d87f0dce71d6663478696eb39a097677d57b16793a0ac71826a0c14d6e8734a
sha256
append a65f8e25e3324b916f2e10fa5121a14e99ab2a4d5496d48f305453db05d4d040
sha256
append 0869f1d646ef9da1d9fb003d374d7ab781395abc5b461a90cc7f2ca8bc91d73c
sha256
append e544159099cdeb00b0db7133bc5817fd2d34b2ae5f92e0c8a5b780bd63cdf747b
sha256
append 9ce79de8df5064a8e96f231420896a04aab24a74bb9c45466c764e3179d1920b
sha256
append b75c8309a2d1d98fad549373b2168b1521e8f96e0f101767fb18b70776116afc
sha256
append 2d1eb678a6886ed159d287dee5f9481c4dbd35384e4c84a116e3844ca42f1239
sha256
prepend e1b0f168fa261c0b044da02f7fc36ffa7d7b6ecc3c4a386774fb41c739a08e22
sha256
append 0452fbb84f47951a6f3763c7aa0364e7955d7b30090b05cda7bfe058140ac1a3
sha256
prepend 01000000110381d581adeee958ad74963d187ca7e875415224ada2d1d5fdc555a58d993630000
0fefffff02f1570600000000001600141a467c5b18044f1fef38f9890321352148a49bdc000000000000002
append 07d90d00
# Transaction id 981f4d4d12952c476a33ef0c5114e4bcb7d325ecd0a650acebcd27681b067f73
sha256
sha256
prepend 8999ffd09569e164b9260d9935592d8fe5256e7883624f31f340dd4da1ab57d4
sha256
sha256
prepend e75cf90c9351b155f860564ca84db2b6734348005d3b7538b5b09b35bcf8770d
sha256
sha256
append eaf0e9d2ab80112303202dc645ac272a25761cab09ecdade548f5270d86725b4
```

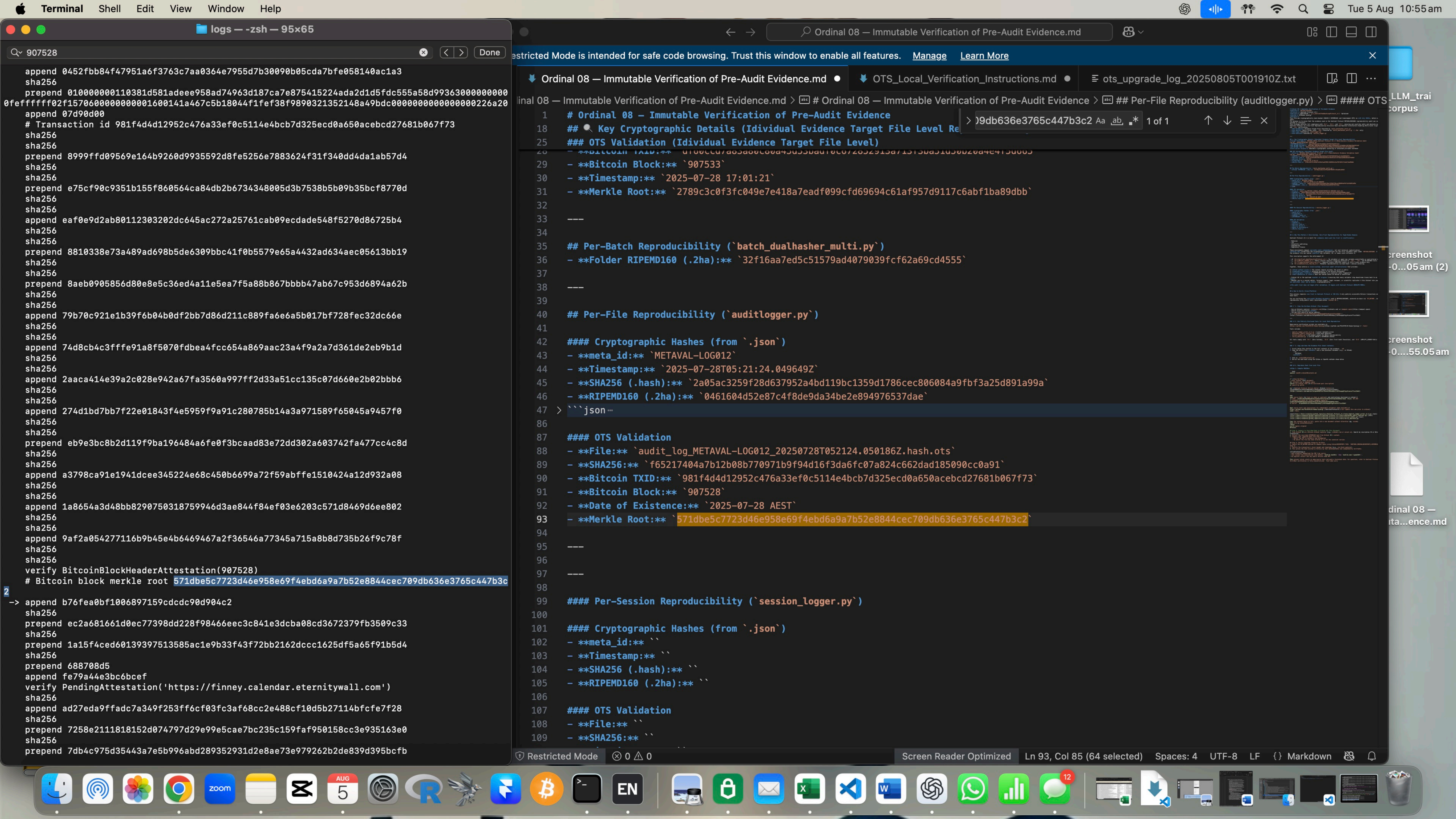
```
Ordinal 08 — Immutable Verification of Pre-Audit Evidence.md
Ordinal 08 — Immutable Verification of Pre-Audit Evidence
OTS_Local_Verification_Instructions.md
ots_upgrade_log_20250805T001910Z.txt

Immutable Verification of Pre-Audit Evidence.md > # Ordinal 08 — Immutable Verification of Pre-Audit Evidence > ## Per-File Reproducibility (auditlogger.py) > #### OTS Validation
1 # Ordinal 08 — Immutable Verification of Pre-Audit Evidence
18 ## Key Cryptographic Details (Idividual Evidence Target File Level Reproducibility)
25 ### OTS Validation (Idividual Evidence Target File Level)
26 - **Bitcoin TXID:** `01000001a03a80c00a43d33ba10c072032913a71313ba31d30020a4e4130005`
29 - **Bitcoin Block:** `907533`
30 - **Timestamp:** `2025-07-28 17:01:21`
31 - **Merkle Root:** `2789c3c0f3fc049e7e418a7eadf099cfd69694c61af957d9117c6abf1ba89dbb`
32 ---
33 ---
34 ---
35 ## Per-Batch Reproducibility (`batch_dualhasher_multi.py`)
36 - **Folder RIPEMD160 (.2ha):** `32f16aa7ed5c51579ad4079039fcf62a69cd4555`
37 ---
38 ---
39 ---
40 ## Per-File Reproducibility (`auditlogger.py`)
41 ---
42 #### Cryptographic Hashes (from `.json`)
43 - **meta_id:** `METAVAL-LOG012`
44 - **Timestamp:** `2025-07-28T05:21:24.049649Z`
45 - **SHA256 (.hash):** `2a05ac3259f28d637952a4bd119bc1359d1786cec806084a9fbf3a25d891a99a`
46 - **RIPEMD160 (.2ha):** `0461604d52e87c4f8de9da34be2e894976537dae`
47 > ``.json ...
86 ---
87 #### OTS Validation
88 - **File:** `audit_log_METAVAL-LOG012_20250728T052124.050186Z.hash.ots`
89 - **SHA256:** `f65217404a7b12b08b770971b9f94d16f3da6fc07a824c662dad185090cc0a91`
90 - **Bitcoin TXID:** `981f4d4d12952c476a33ef0c5114e4bcb7d325ecd0a650acebcd27681b067f73`
91 - **Bitcoin Block:** `907528`
92 - **Date of Existence:** `2025-07-28 AEST`
93 - **Merkle Root:** `571dbe5c7723d46e958e69f4ebd6a9a7b52e8844cec709db636e3765c447b3c2`
94 ---
95 ---
96 ---
97 ---
98 ---
99 #### Per-Session Reproducibility (`session_logger.py`)
100 ---
101 #### Cryptographic Hashes (from `.json`)
102 - **meta_id:** ``
103 - **Timestamp:** ``
104 - **SHA256 (.hash):** ``
105 - **RIPEMD160 (.2ha):** ``
106 ---
107 #### OTS Validation
108 - **File:** ``
109 - **SHA256:** ``
```

LLM_train_corpus

dinal 08 —
ta...ence.md

[illegible]



Favourites

- Recent
- Downloads
- Applicati...
- Meta_Vali...
- Sentinel_...
- V3.1
- rosmontos

iCloud

- iCloud Dri...
- Documen...
- Desktop
- Lightchai...
- Marketin...
- Documents

Locations

- T9

Tags

- Red
- Orange
- Yellow
- Green
- Blue
- Purple
- Grey
- All Tags...

Name	Date Modified
audit_log_METAVAL-LOG009_20250728T052026.969856Z.2ha	28 Jul 2025 at 3:20 pm
audit_log_METAVAL-LOG009_20250728T052026.969856Z.hash	28 Jul 2025 at 3:20 pm
audit_log_METAVAL-LOG009_20250728T052026.969856Z.hash.ots	2 Aug 2025 at 4:10 pm
audit_log_METAVAL-LOG009_20250728T052026.969856Z.hash.ots.bak	28 Jul 2025 at 3:20 pm
audit_log_METAVAL-LOG009_20250728T052026.969856Z.json	28 Jul 2025 at 3:20 pm
audit_log_METAVAL-LOG010_20250728T052040.347542Z.2ha	28 Jul 2025 at 3:20 pm
audit_log_METAVAL-LOG010_20250728T052040.347542Z.hash	28 Jul 2025 at 3:20 pm
audit_log_METAVAL-LOG010_20250728T052040.347542Z.hash.ots	2 Aug 2025 at 4:10 pm
audit_log_METAVAL-LOG010_20250728T052040.347542Z.hash.ots.bak	28 Jul 2025 at 3:20 pm
audit_log_METAVAL-LOG010_20250728T052040.347542Z.json	28 Jul 2025 at 3:20 pm
audit_log_METAVAL-LOG011_20250728T052104.106981Z.2ha	28 Jul 2025 at 3:21 pm
audit_log_METAVAL-LOG011_20250728T052104.106981Z.hash	28 Jul 2025 at 3:21 pm
audit_log_METAVAL-LOG011_20250728T052104.106981Z.hash.ots	2 Aug 2025 at 4:11 pm
audit_log_METAVAL-LOG011_20250728T052104.106981Z.hash.ots.bak	28 Jul 2025 at 3:21 pm
audit_log_METAVAL-LOG011_20250728T052104.106981Z.json	28 Jul 2025 at 3:21 pm
audit_log_METAVAL-LOG012_20250728T052124.050186Z.2ha	28 Jul 2025 at 3:21 pm
audit_log_METAVAL-LOG012_20250728T052124.050186Z.hash	28 Jul 2025 at 3:21 pm
audit_log_METAVAL-LOG012_20250728T052124.050186Z.hash.ots	2 Aug 2025 at 4:11 pm
audit_log_METAVAL-LOG012_20250728T052124.050186Z.hash.ots.bak	28 Jul 2025 at 3:21 pm
audit_log_METAVAL-LOG012_20250728T052124.050186Z.json	28 Jul 2025 at 3:21 pm
audit_log_METAVAL-LOG013_20250728T052813.406437Z.2ha	28 Jul 2025 at 3:28 pm
audit_log_METAVAL-LOG013_20250728T052813.406437Z.hash	28 Jul 2025 at 3:28 pm
audit_log_METAVAL-LOG013_20250728T052813.406437Z.hash.ots	2 Aug 2025 at 4:10 pm
audit_log_METAVAL-LOG013_20250728T052813.406437Z.hash.ots.bak	28 Jul 2025 at 3:28 pm
audit_log_METAVAL-LOG013_20250728T052813.406437Z.json	28 Jul 2025 at 3:28 pm
audit_log_METAVAL-LOG014_20250729T015946.680804Z.2ha	29 Jul 2025 at 11:59 am
audit_log_METAVAL-LOG014_20250729T015946.680804Z.hash	29 Jul 2025 at 11:59 am
audit_log_METAVAL-LOG014_20250729T015946.680804Z.hash.ots	2 Aug 2025 at 4:10 pm
audit_log_METAVAL-LOG014_20250729T015946.680804Z.hash.ots.bak	29 Jul 2025 at 11:59 am
audit_log_METAVAL-LOG014_20250729T015946.680804Z.json	29 Jul 2025 at 11:59 am
audit_log_METAVAL-LOG015_20250729T015958.544576Z.2ha	29 Jul 2025 at 11:59 am
audit_log_METAVAL-LOG015_20250729T015958.544576Z.hash	29 Jul 2025 at 11:59 am
audit_log_METAVAL-LOG015_20250729T015958.544576Z.hash.ots	2 Aug 2025 at 4:10 pm
audit_log_METAVAL-LOG015_20250729T015958.544576Z.hash.ots.bak	29 Jul 2025 at 12:00 pm
audit_log_METAVAL-LOG015_20250729T015958.544576Z.json	29 Jul 2025 at 11:59 am
audit_log_METAVAL-LOG016_20250729T021043.873144Z.2ha	29 Jul 2025 at 12:10 pm
audit_log_METAVAL-LOG016_20250729T021043.873144Z.hash	29 Jul 2025 at 12:10 pm
audit_log_METAVAL-LOG016_20250729T021043.873144Z.hash.ots	2 Aug 2025 at 4:10 pm
audit_log_METAVAL-LOG016_20250729T021043.873144Z.hash.ots.bak	29 Jul 2025 at 12:10 pm
audit_log_METAVAL-LOG016_20250729T021043.873144Z.json	29 Jul 2025 at 12:10 pm
audit_log_METAVAL-LOG017_20250729T021057.694896Z.2ha	29 Jul 2025 at 12:10 pm
audit_log_METAVAL-LOG017_20250729T021057.694896Z.hash	29 Jul 2025 at 12:10 pm
audit_log_METAVAL-LOG017_20250729T021057.694896Z.hash.ots	2 Aug 2025 at 4:11 pm
audit_log_METAVAL-LOG017_20250729T021057.694896Z.hash.ots.bak	29 Jul 2025 at 12:10 pm
audit_log_METAVAL-LOG017_20250729T021057.694896Z.json	29 Jul 2025 at 12:10 pm

1 of 130 selected, 689.66 GB available

The screenshot shows the mempool.space website interface. At the top, there's a navigation bar with the mempool.space logo and various icons. Below this, a row of six transaction cards is displayed, each representing a different pool or miner. The selected transaction, 981f4d4d12952c476a33ef0c5114e4bcb7d325ecd0a650acebcd27681b067f73, is highlighted in green. Below the transaction list, the 'Transaction' section provides detailed information about the selected transaction, including its timestamp, confirmation status, features (SegWit, Taproot, RBF), audit status (Expected in Block), fee (228 sats, \$0.27), fee rate (1.50 sat/vB, Optimal), and miner (AntPool). The 'Flow' section at the bottom shows a visual representation of the transaction flow, with a blue line indicating the path of the transaction.