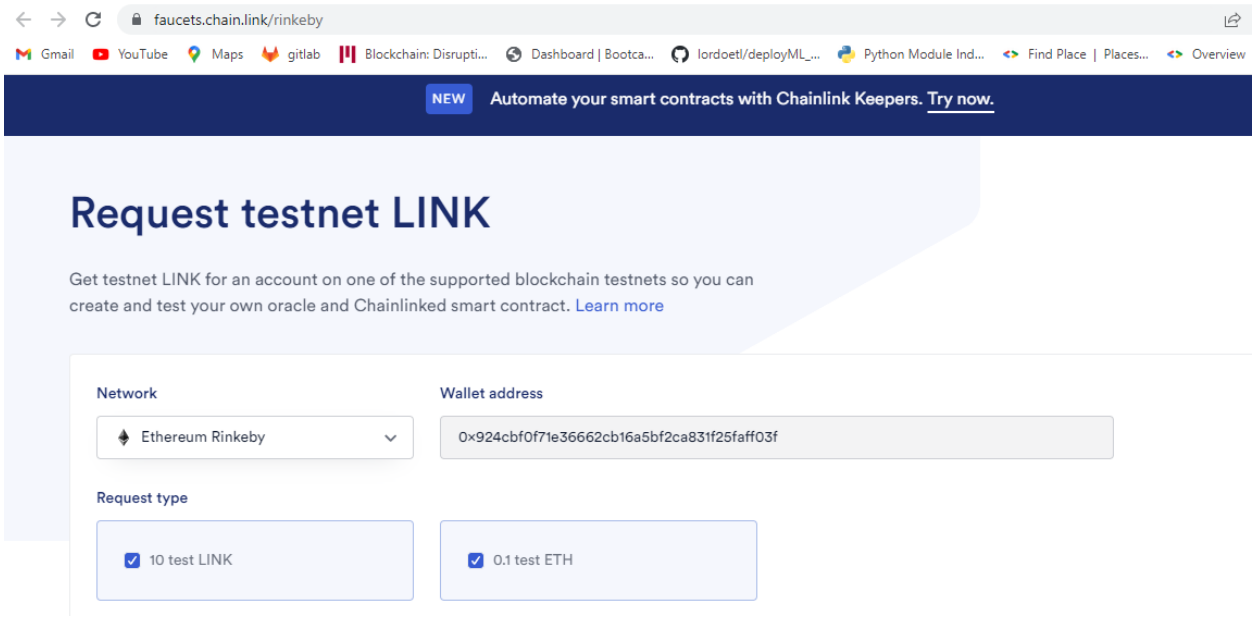
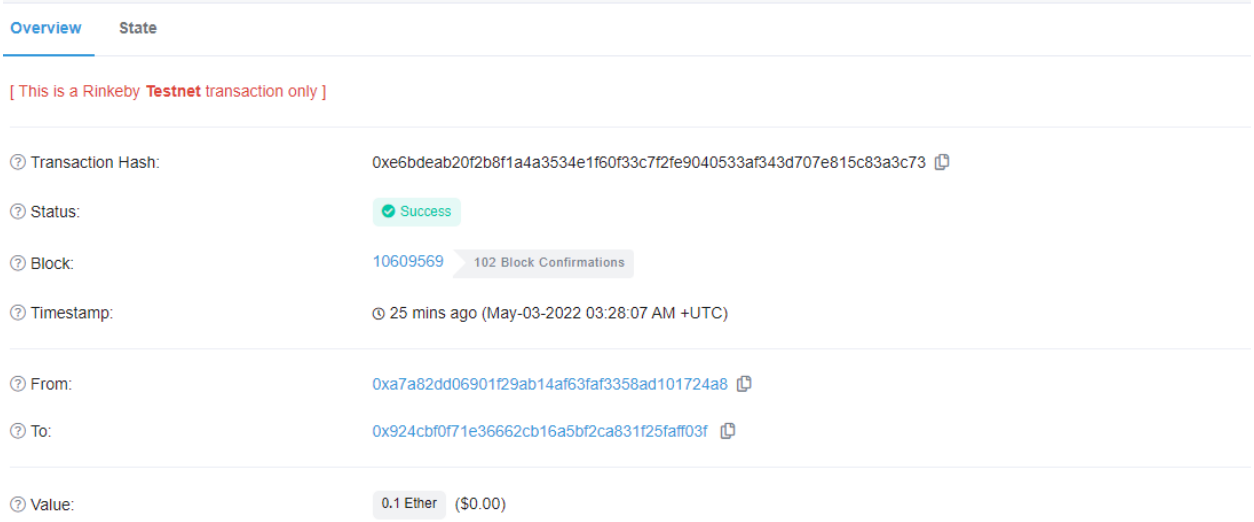
Module 1 - Assignment
Questions

**Adjust the response space according to what you need.*

** For answers that include data to be answered via Metamask or Etherscan, include a screenshot, of the full screen, so that the facilitator can read the data on the screen, including the URL address of the web page.*

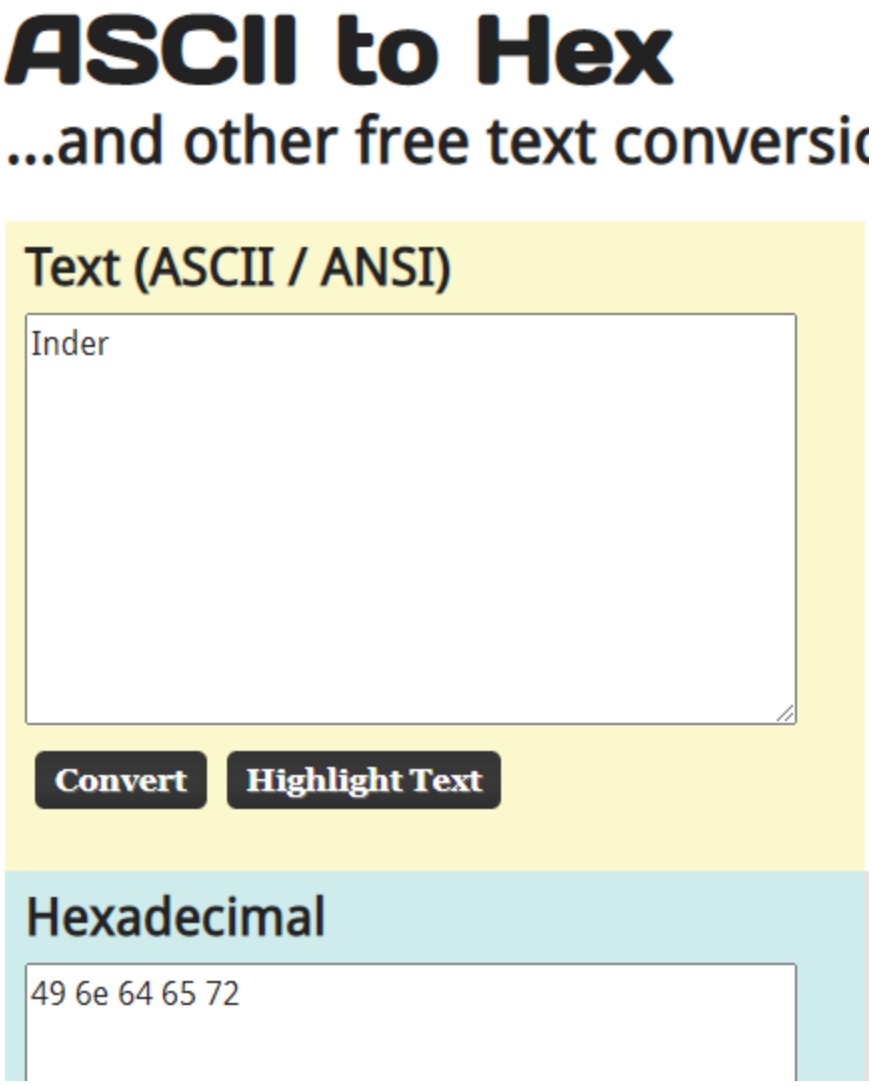
1. What is the address of your new account? In addition to giving the answer include a screenshot. Also include a screenshot so that the facilitator can see, in the sale of the "Rinkeby Faucet", the URL of the Tweet or Facebook post that contains your wallet account address.





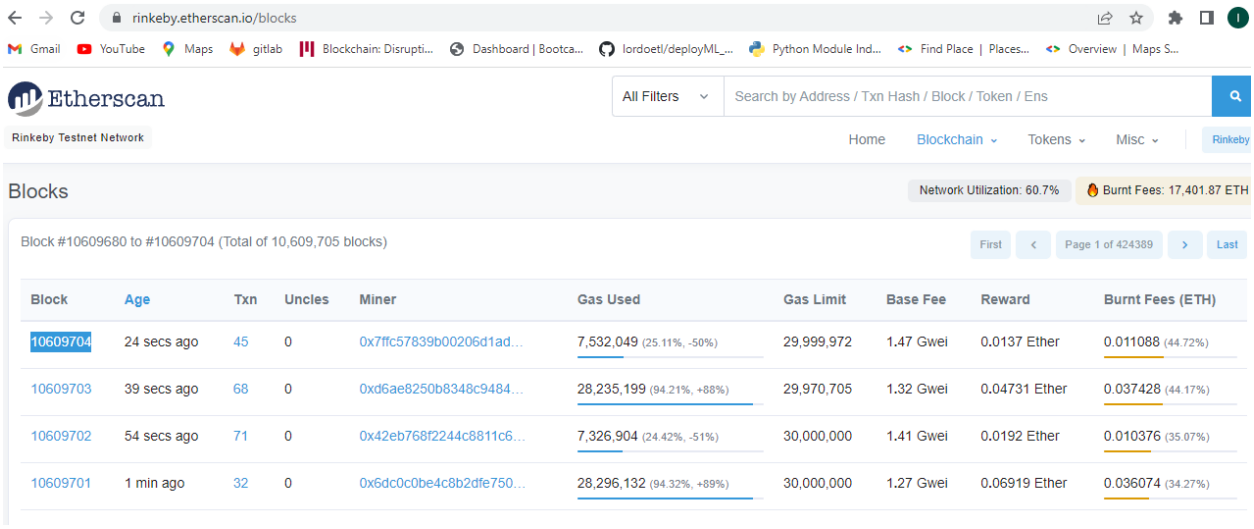
2. What is the hexadecimal code of your name? In addition to giving the answer, include a screenshot.

   496e646572



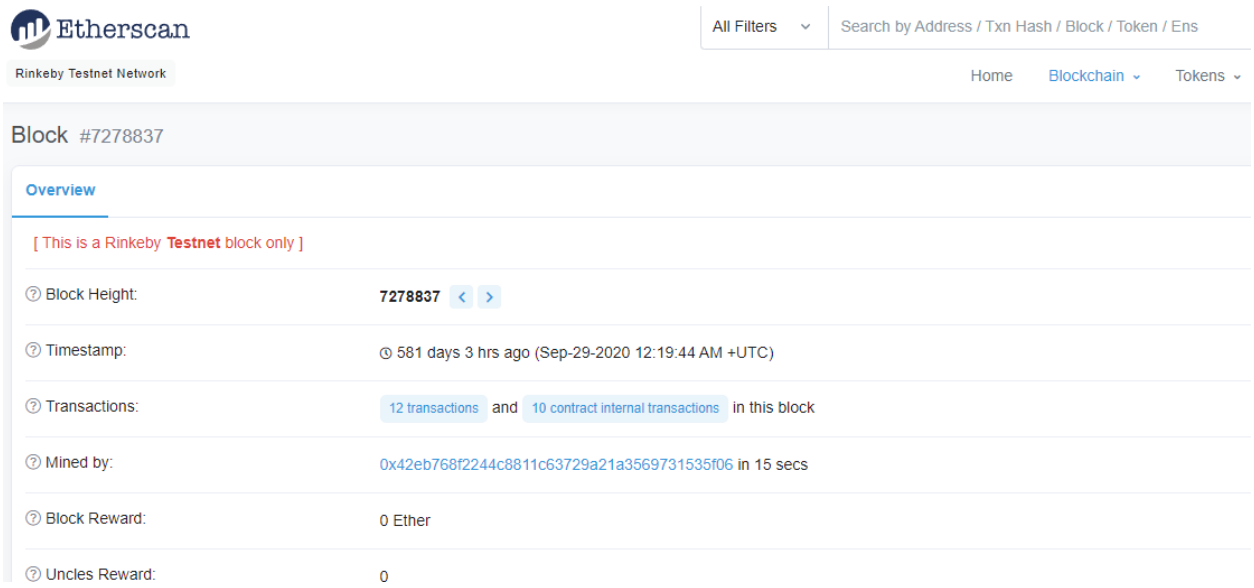
3. As far as you can see, which block was last mined? In addition to giving the answer, include a screenshot.

10609704



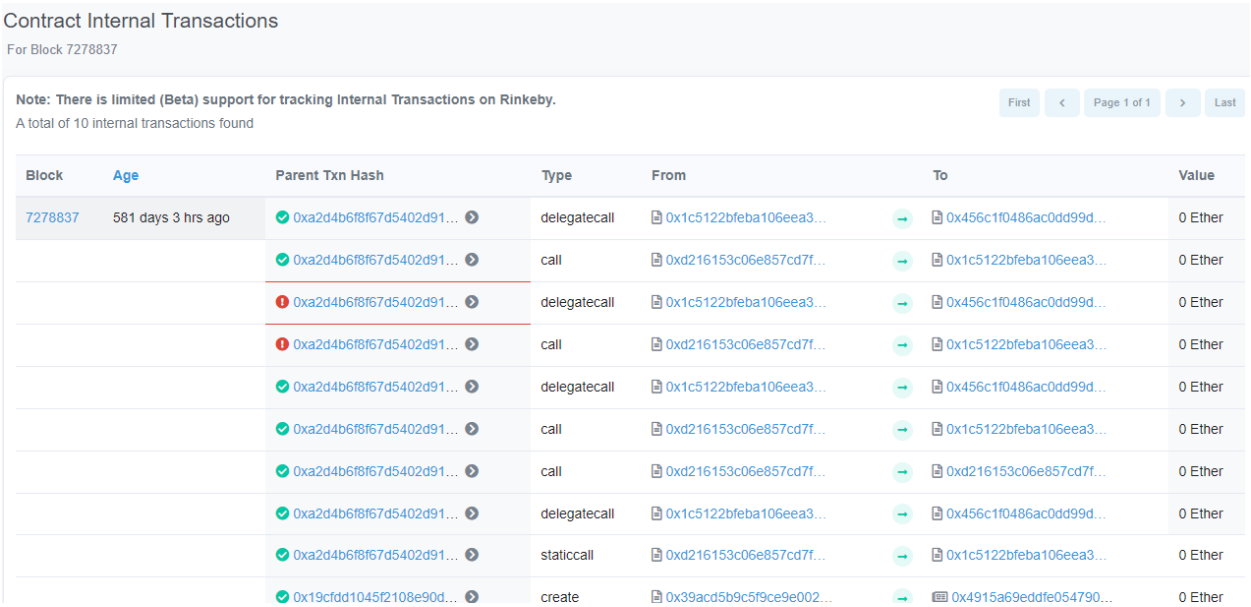
4. How many transactions does block 7278837 have? In addition to giving the answer, include a screenshot.

   12 transactions



5. How many "contract transactions" does block 7278837 have? In addition to giving the answer, include a screenshot.

10 contract internal transactions



Contract Internal Transactions

For Block 7278837

Note: There is limited (Beta) support for tracking Internal Transactions on Rinkeby.

A total of 10 internal transactions found

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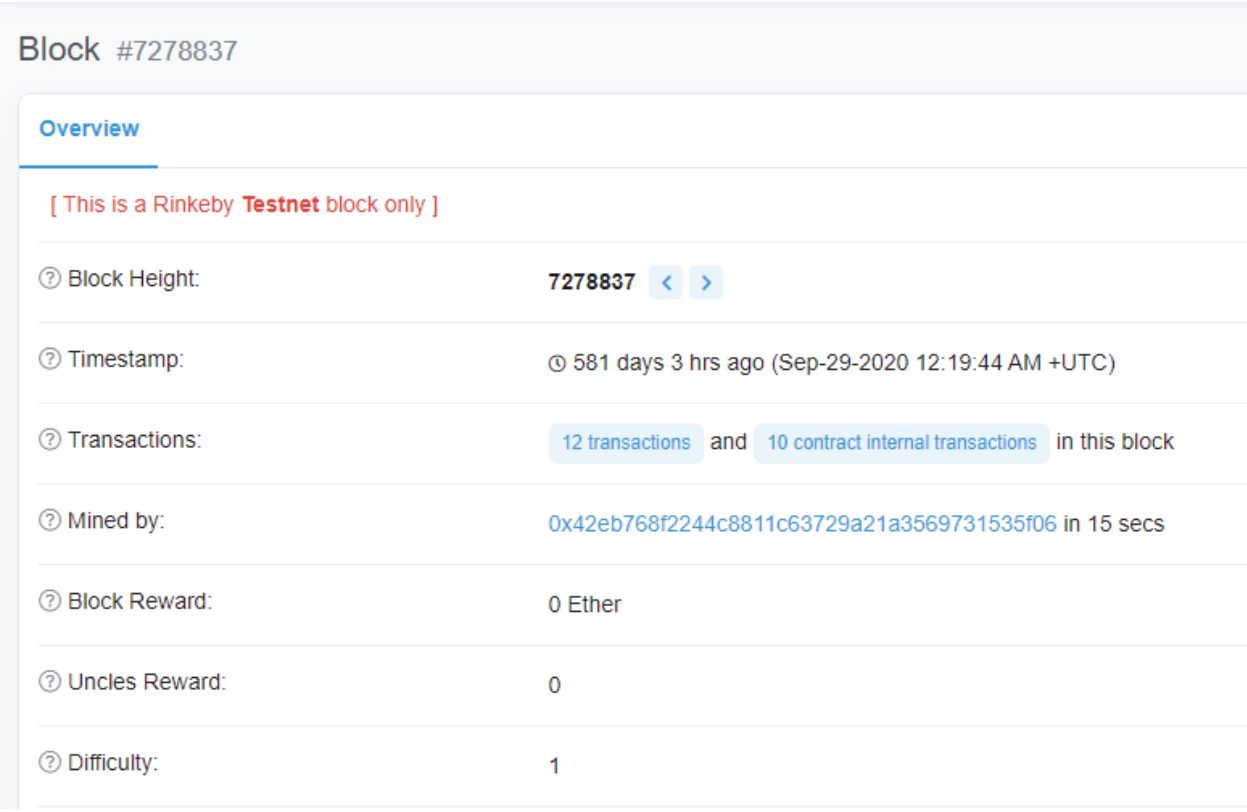
Block	Age	Parent Txn Hash	Type	From	To	Value
7278837	581 days 3 hrs ago	0xa2d4b6f8f67d5402d91...	delegatecall	0x1c5122bfeba106eea3...	0x456c1f0486ac0dd99d...	0 Ether
		0xa2d4b6f8f67d5402d91...	call	0xd216153c06e857cd7f...	0x1c5122bfeba106eea3...	0 Ether
		0xa2d4b6f8f67d5402d91...	delegatecall	0x1c5122bfeba106eea3...	0x456c1f0486ac0dd99d...	0 Ether
		0xa2d4b6f8f67d5402d91...	call	0xd216153c06e857cd7f...	0x1c5122bfeba106eea3...	0 Ether
		0xa2d4b6f8f67d5402d91...	delegatecall	0x1c5122bfeba106eea3...	0x456c1f0486ac0dd99d...	0 Ether
		0xa2d4b6f8f67d5402d91...	call	0xd216153c06e857cd7f...	0x1c5122bfeba106eea3...	0 Ether
		0xa2d4b6f8f67d5402d91...	call	0xd216153c06e857cd7f...	0xd216153c06e857cd7f...	0 Ether
		0xa2d4b6f8f67d5402d91...	delegatecall	0x1c5122bfeba106eea3...	0x456c1f0486ac0dd99d...	0 Ether
		0xa2d4b6f8f67d5402d91...	staticcall	0xd216153c06e857cd7f...	0x1c5122bfeba106eea3...	0 Ether
		0x19cfdd1045f2108e90d...	create	0x39acd5b9c5f9ce9e002...	0x4915a69eddfe054790...	0 Ether

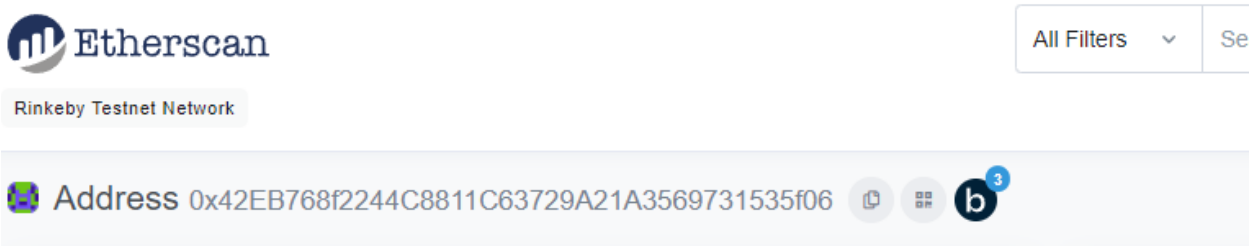
6. What is the "difficulty" of block 7278837? In addition to giving the answer, include a screenshot.

Difficulty level is 1



7. What is the address of the miner who has mined block 7278837? In addition to giving the answer, include a screenshot.

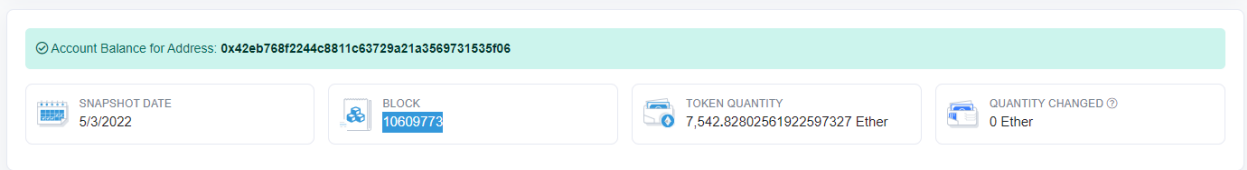
0x42EB768f2244C8811C63729A21A3569731535f06

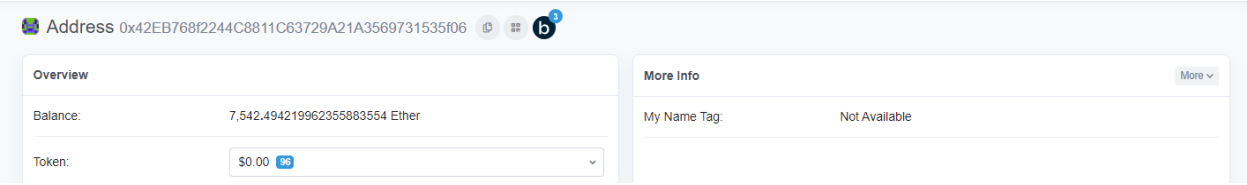


8. On the account you are researching at Etherscan, what can you notice about the owner? Based on data such as whether or not the account has a name, how much Ether it has, or what transactions it has been involved in, do you think the account belongs to a mining pool or an

individual miner? What other predictions can be made about the account? In addition to giving the answer, include a screenshot.

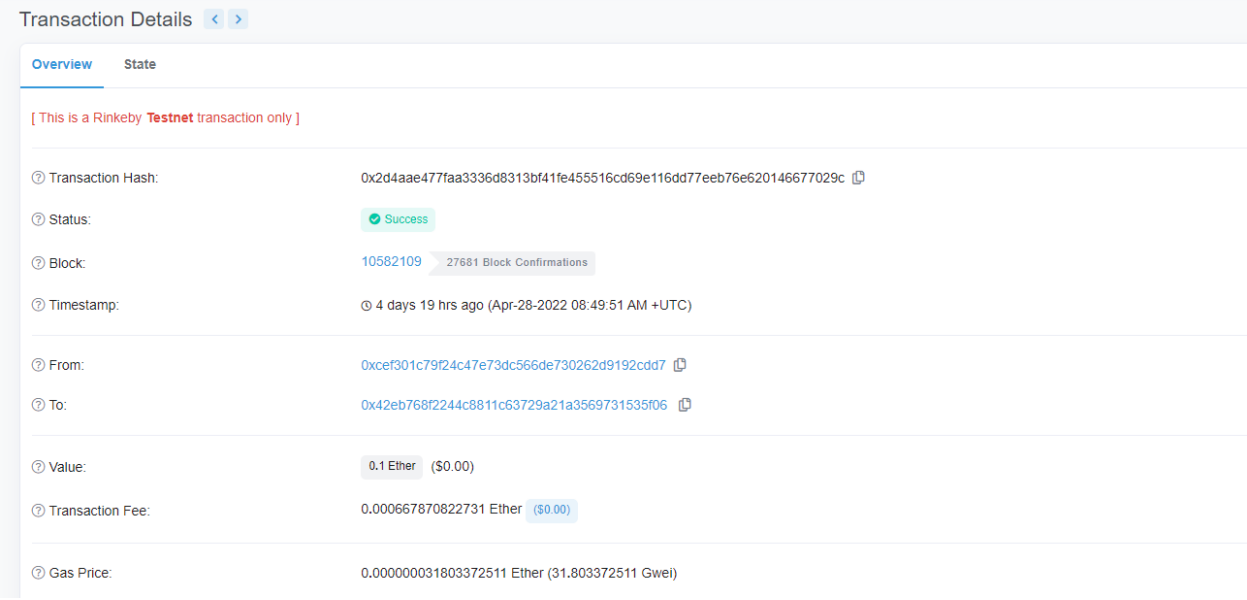
Owner is no name its account balance is 7,542.82802561922597327 Ether and last block is 10609773





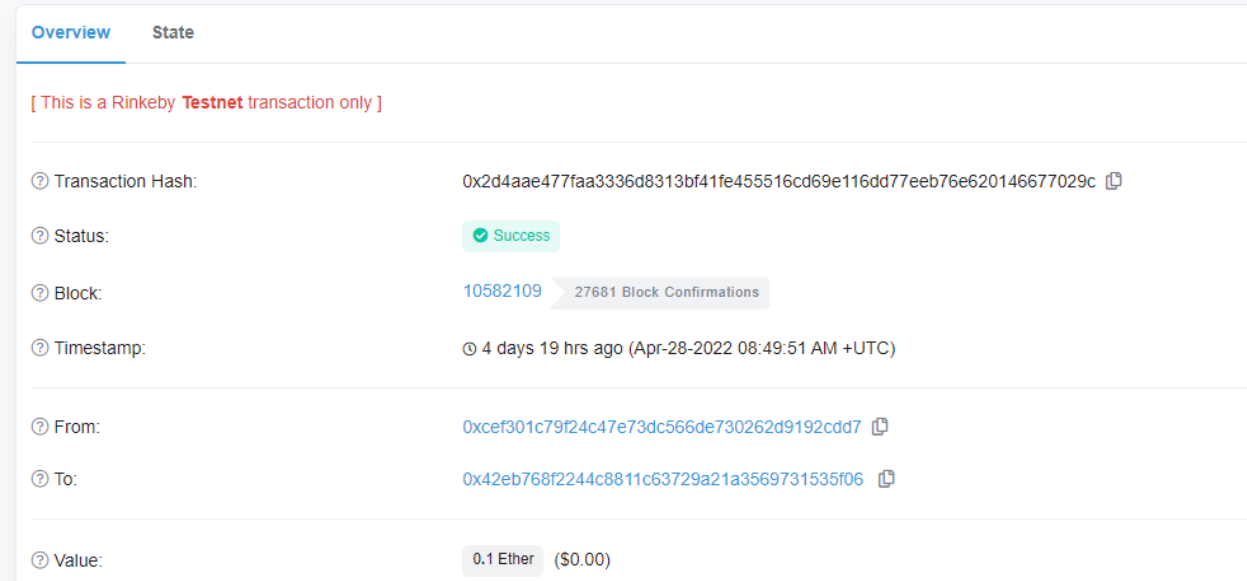
9. In the transaction you have opened, what is the hash of the transaction? In addition to giving the answer, include a screenshot.

0x2d4aae477faa3336d8313bf41fe455516cd69e116dd77eeb76e620146677029c



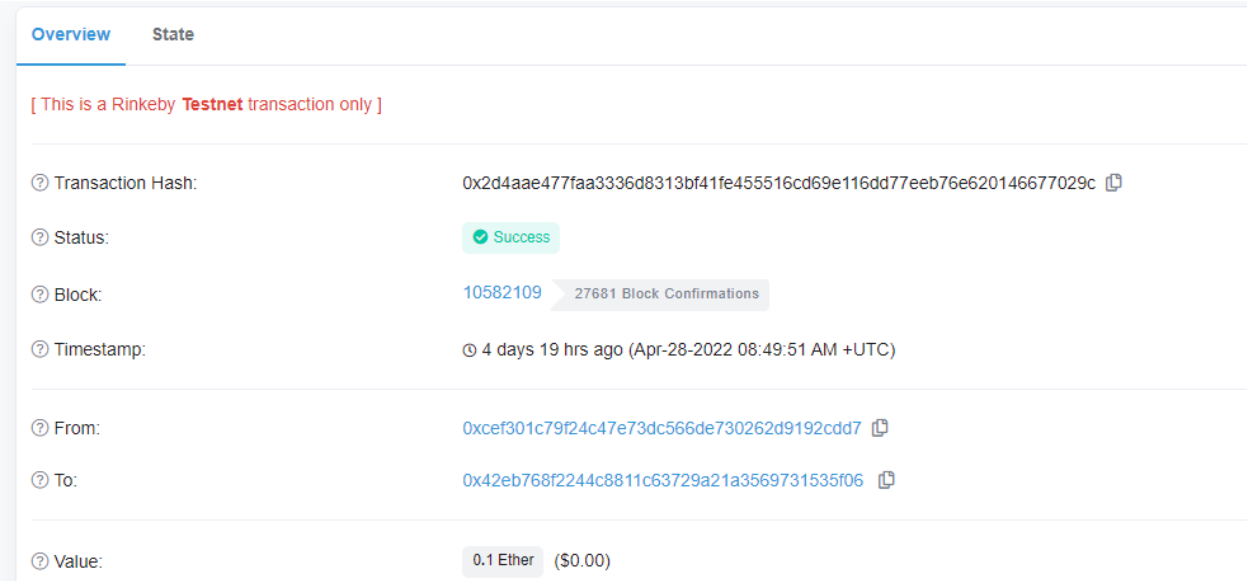
10. In the transaction you have opened, how much Ether has been transferred? In addition to giving the answer, include a screenshot.

0.1 ether



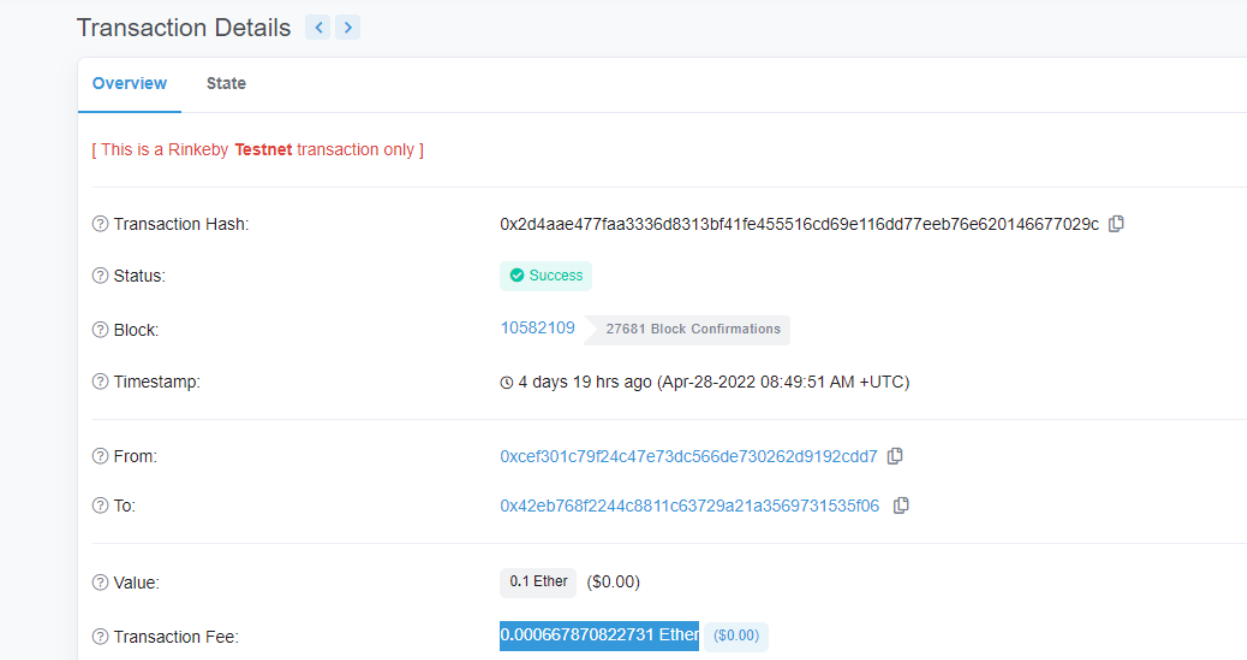
11. What is the value of this Ether in US dollars? In addition to giving the answer, include a screenshot.

0.00USD



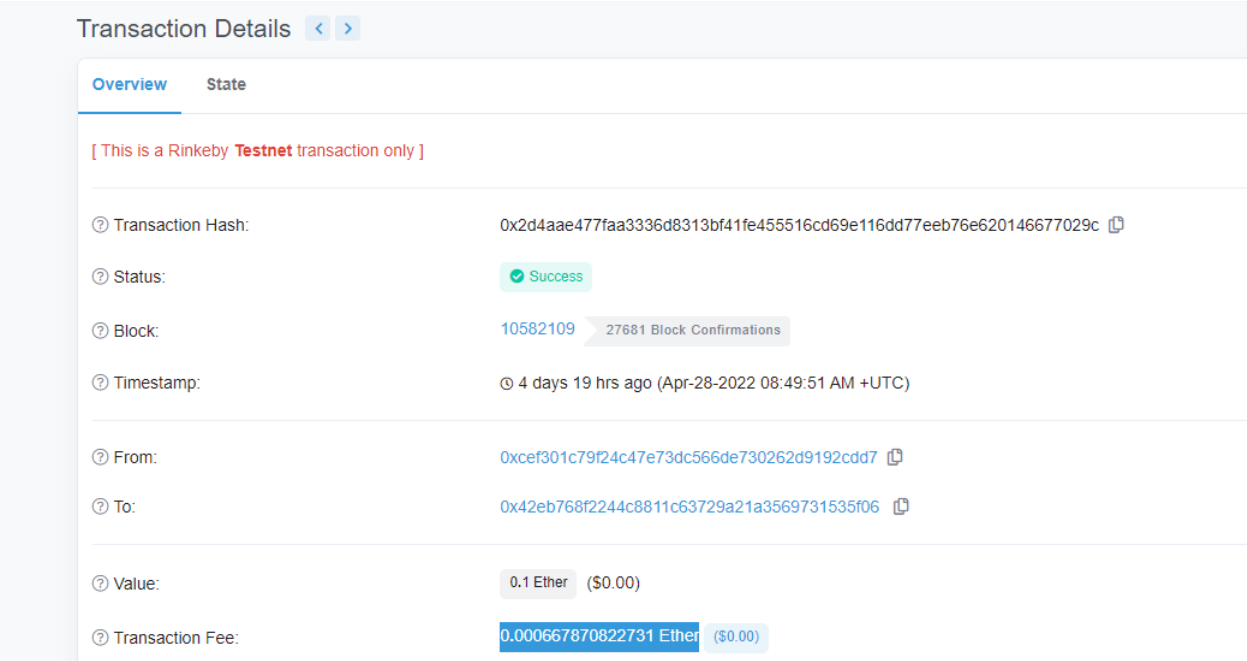
12. How much was the transaction fee for this transaction (in Ether)? In addition to giving the answer, include a screenshot.

0.000667870822731 Ether



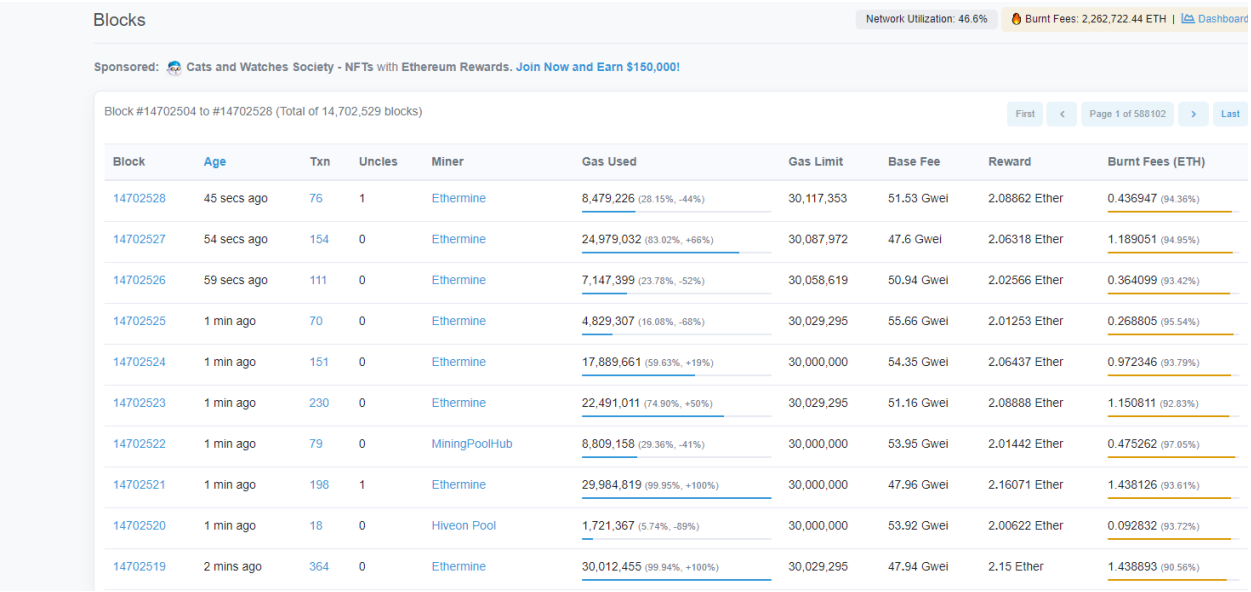
13. What is the value of this transaction fee (it may be a fraction of a cent)? In addition to giving the answer, include a screenshot.

0.00USD



14. From what you can see in this chart, what is the time between blocks in the Ethereum network? In addition to giving the answer, include a screenshot.

Under one minute



15. After a stable increase in time between blocks, the two dates with abrupt decreases are October 16, 2017 and February 28, 2019. Investigate these two dates in the Ethereum's history. Why are they important? What caused there to be an increase and, suddenly, a decrease in time between blocks?

Courtesy of ethereum.org/en/history

2017

Byzantium

`Oct-16-2017 05:22:11 AM +UTC`

📦 Block number: 4,370,000

ETH price: $334.23 USD

ethereum.org on waybackmachine

Summary

The Byzantium fork:

- Reduced block mining rewards from 5 to 3 ETH.
- Delayed the difficulty bomb by a year.
- Added ability to make non-state-changing calls to other contracts.
- Added certain cryptography methods to allow for layer 2 scaling.

Constantinople

`Feb-28-2019 07:52:04 PM +UTC`

📦 Block number: 7,280,000

ETH price: $136.29 USD

ethereum.org on waybackmachine

Summary

The Constantinople fork:

- Ensured the blockchain didn't freeze before proof-of-stake was implemented.
- Optimised the gas cost of certain actions in the EVM.
- Added the ability to interact with addresses that haven't been created yet.