```
no_prime_divs_one  THM

⊢  ∀b:ℤ. b | 1 ⇒ ¬prime(b)  by Analyze ...wℕ
|
1. b : ℤ
⊢  b | 1 ⇒ ¬prime(b)  by Decide: 0≤b ...wℕ
|
|\
| 2. 0≤b
| ⊢  b | 1 ⇒ ¬prime(b)
|   by Guarding (<prop> ⇒ <prop>)
|      BackThru:
|      Thm*  ∀b:ℕ. b | 1 ⇒ ¬prime(b)    {no_nat_prime_divs_one} ...ℕ
|
.\
. 2. ¬0≤b
. ⊢  b | 1 ⇒ ¬prime(b)
. | by Rewrite by
. |    Thm*  ∀a,b:ℤ. a | b ⟺ -a | b    {divides_invar_1} ...wℕ
. |    THEN
. |    Rewrite by
. |    Thm*  ∀y:ℤ. prime(-y) ⟺ prime(y)    {prime_neg} ...wℕ
. |
. ⊢  -b | 1 ⇒ ¬prime(-b)
.   by Guarding (<prop> ⇒ <prop>)
.      BackThru:
.      Thm*  ∀b:ℕ. b | 1 ⇒ ¬prime(b)    {no_nat_prime_divs_one} ...ℕ
END
```