```
hel_wd  THM

⊢  ∀'a:S.
|  and
|  (all(λl:hlist('a). equal(el(0,l),hd(l)))
|  ,all(λl:hlist('a). all(λn:hnum. equal(el(suc(n),l),el(n,tl(l))))))
| by WOSimp (ioid !oid{hel simp update:s})
|    (WOSimp (ioid !oid{hdd simp update:s}) HN)
|
|\
| 1. 'a : S
| 2. l : hlist('a)
| ⊢  el(0,l) = hd(l)  by RecUnfold `hel` 0 THEN Simp THEN StrongAuto
|
.\
. 1. 'a : S
. 2. l : hlist('a)
. 3. n : ℕ
. ⊢  el(n+1,l) = el(n,tl(l))
. | by RW (NthC 1 (RecUnfoldTopC `hel`)) 0 THEN Simp THEN StrongAuto
. |
. 1. 'a : S
. 2. l : hlist('a)
. 3. n : ℕ
. ⊢  if n+1=₂0 then hd(l) else el(n+1-1,tl(l)) fi  = el(n,tl(l))
. | by BifCase THEN Simp THEN StrongAuto
. |
. 1. 'a : S
. 2. l : hlist('a)
. 3. n : ℕ
. 4. ¬n+1 = 0
. ⊢  el(n+1-1,tl(l)) = el(n,tl(l))
. | by Analyze THEN Simp THEN StrongAuto THEN Analyze THEN Simp
. |    THEN
. |    StrongAuto
. |
. .....subterm .....
. 1. 'a : S
. 2. hlist('a)
. 3. n : ℕ
. 4. ¬n+1 = 0
. ⊢  n+1-1 = n
.   by Analyze THEN StrongAuto THEN Try (Complete (Unfold `label` 0))
END
```