$$(\mathbf{M}, s_2) \models (\mathbf{a} \land \mathbf{b}) \text{ iff } (\mathbf{M}, s_2) \models \mathbf{a} \text{ and } (\mathbf{M}, s_2) \models \mathbf{b}.$$
 $(\mathbf{M}, s_2) \models \mathbf{a} \text{ iff } \pi(s_2)(a) = 1.$
 $(\mathbf{M}, s_2) \models \mathbf{a} \text{ holds since } \pi(s_2)(a) = 1.$
 $(\mathbf{M}, s_2) \models \mathbf{b} \text{ iff } \pi(s_2)(b) = 1.$
 $(\mathbf{M}, s_2) \models \mathbf{b} \text{ does not hold since } \pi(s_2)(b) = 0.$
 $(\mathbf{M}, s_2) \models (\mathbf{a} \land \mathbf{b}) \text{ does not hold since } (\mathbf{M}, s_2) \models \mathbf{b} \text{ does not hold.}$
 $(\mathbf{M}, s_1) \models \mathbf{K}_1((\mathbf{a} \land \mathbf{b})) \text{ does not hold since } (\mathbf{M}, s_2) \models (\mathbf{a} \land \mathbf{b}) \text{ does not hold.}$

 $(M, s_1) \models K_1 ((a \land b)) \text{ iff } (M, t) \models (a \land b) \text{ for all } t \text{ with } (s_1, t) \in R_1.$