2017

Case Study: Weld County, CO

3D scans and FDM 3D prints from
corn-based plastic mixed with wood fibers.

Dimensions variable.

Commissioned by the Gregory Allicar Museum of Art at
Colorado State University, Fort Collins, CO

Case Study: Weld County, CO would not have been possible without the discerning eyes of Emily Boutilier Sullivan and Kyle Singer and their photographic material and keen efforts in scanning the houses used here as case studies.

Aerial view of Weld County, CO with active fracking well pads dotting the landscape, interwoven amongst a burgeoning suburban sprawl, with off-gassing well pads as close as 48 feet to occupied residences.

Pedestrian views of Weld County, CO highlighting the close proximity of oil and gas infrastructure to occupied residential neighborhoods.

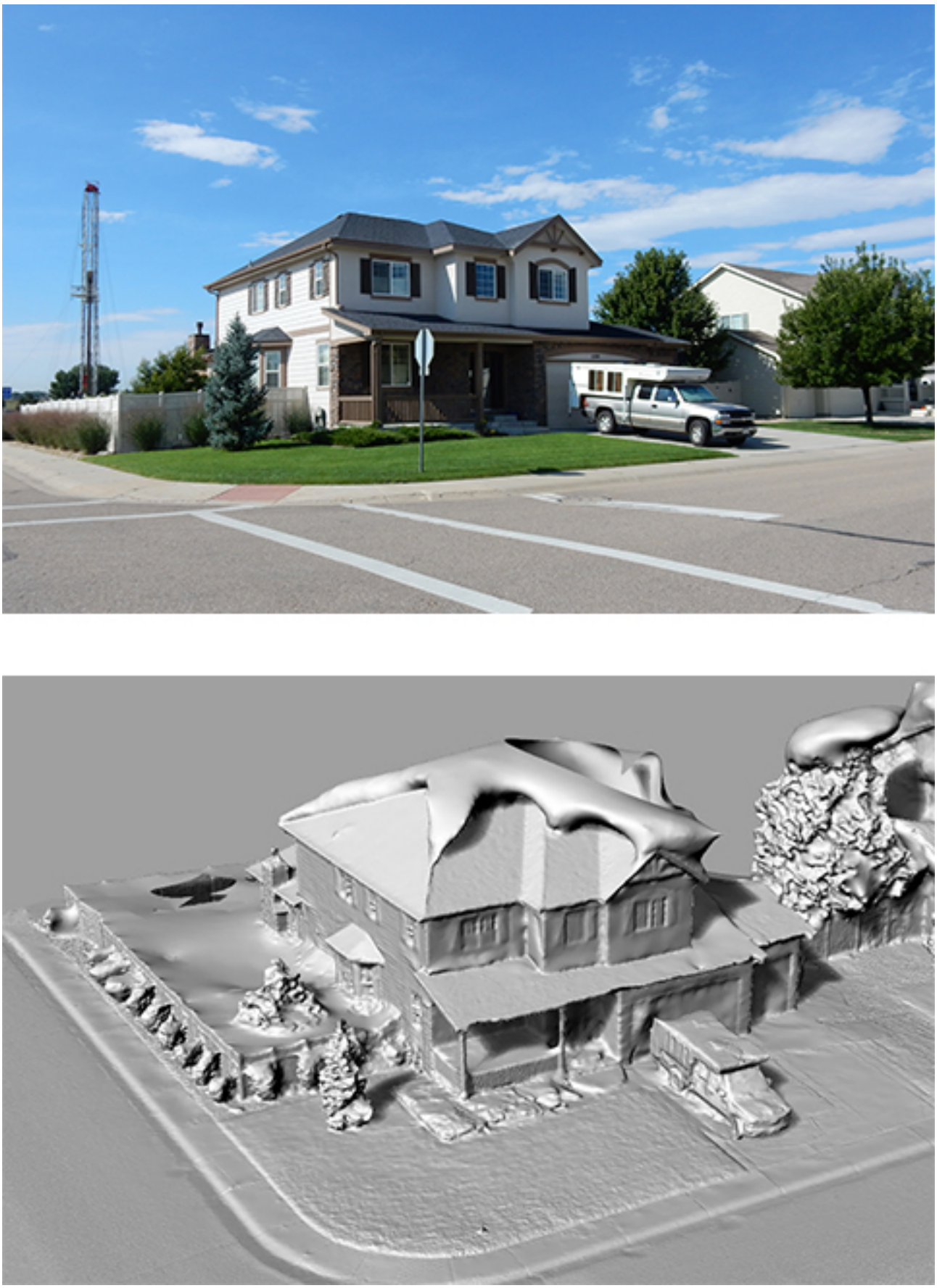


Image scans from a pedestrian's viewpoint. This restricted scanning process presented anomalies within the modeling program forcing the software to unpredictably supplement or omit information to assemble 3D models.

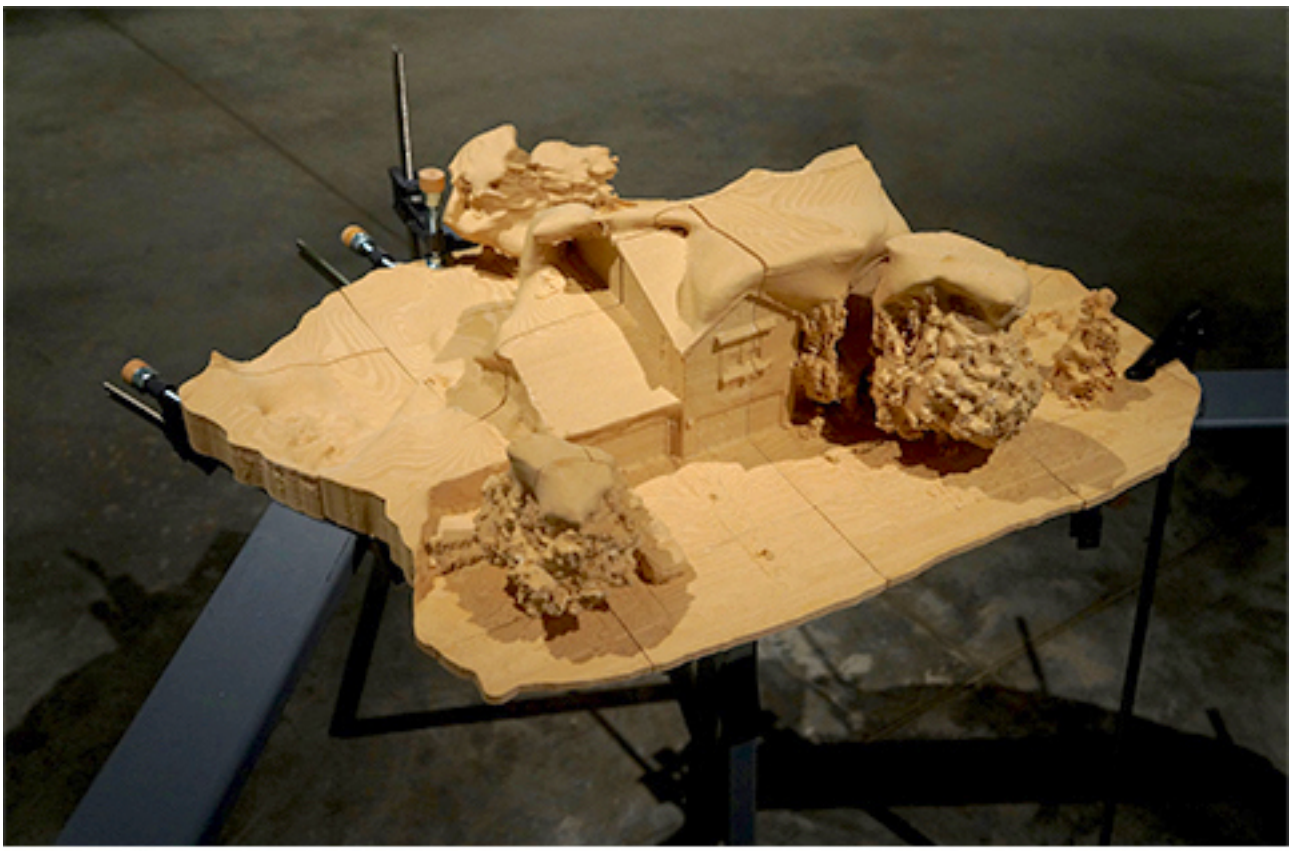
Weld County arguably has the densest number of active fracking wells in the country. A map illustrating the underground network of active gas extraction lines reveals a sprawling, tightly-knit mesh of export pipelines sitting just below the playgrounds, carpeted living rooms and manicured front lawns. Here, the domestic and the everyday come in intimate proximity to the inhuman-scaled industries of resource extraction.

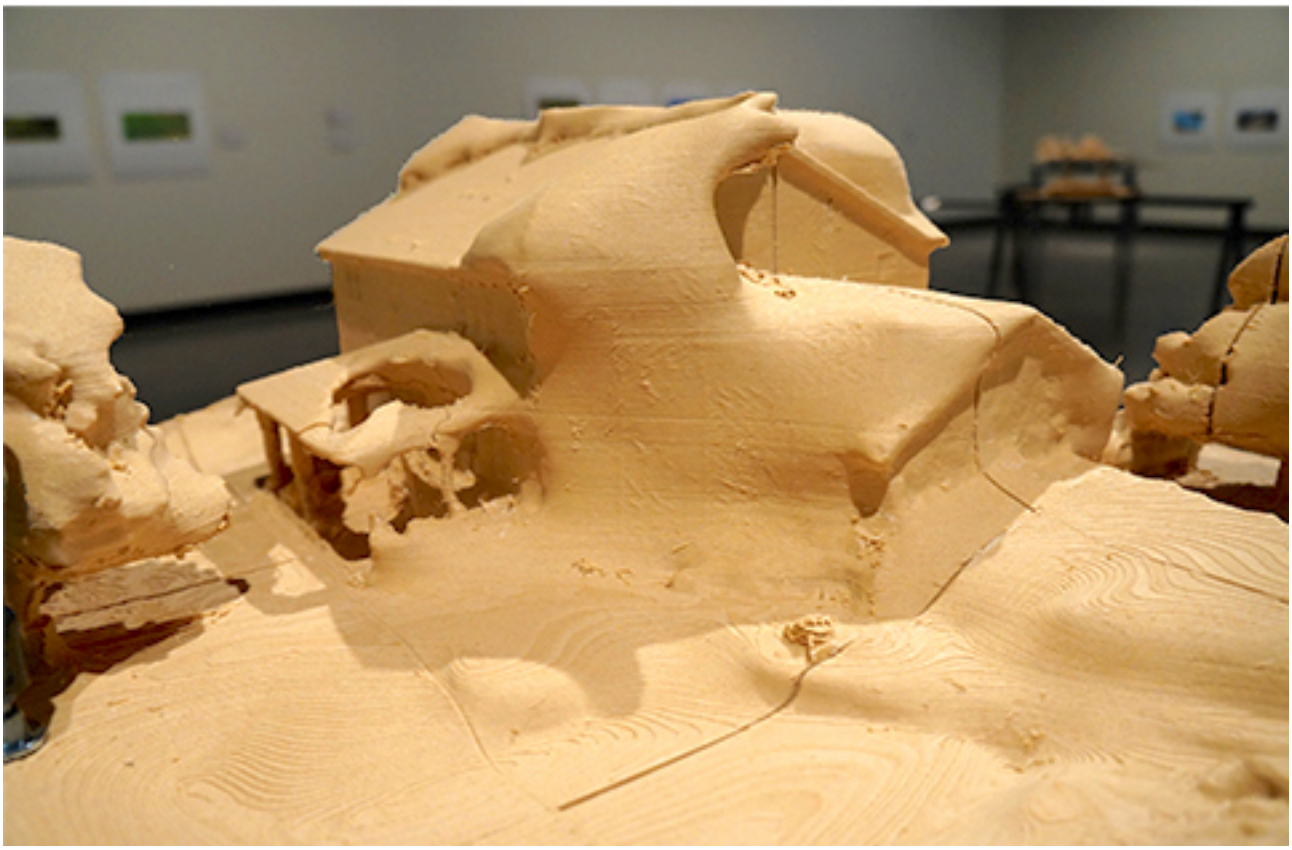
Case Study: Weld County, CO consists of re-assembled 3D prints of real homes, all lying within one hundred feet of active fracking well pads. Image scans were taken only from what was observable from a pedestrian's point of view, from roads or sidewalks. This restricted approach to the scanning process presented anomalies within the modeling program. When the scans were assembled to form a 3D model, the software unpredictably supplemented missing information or omitted existing information.

Such deformations make evident the disconnect between our actions and how we perceive them. This exhibition looks at how we normalize our impact on the natural world and the perceived consequences to our own health.

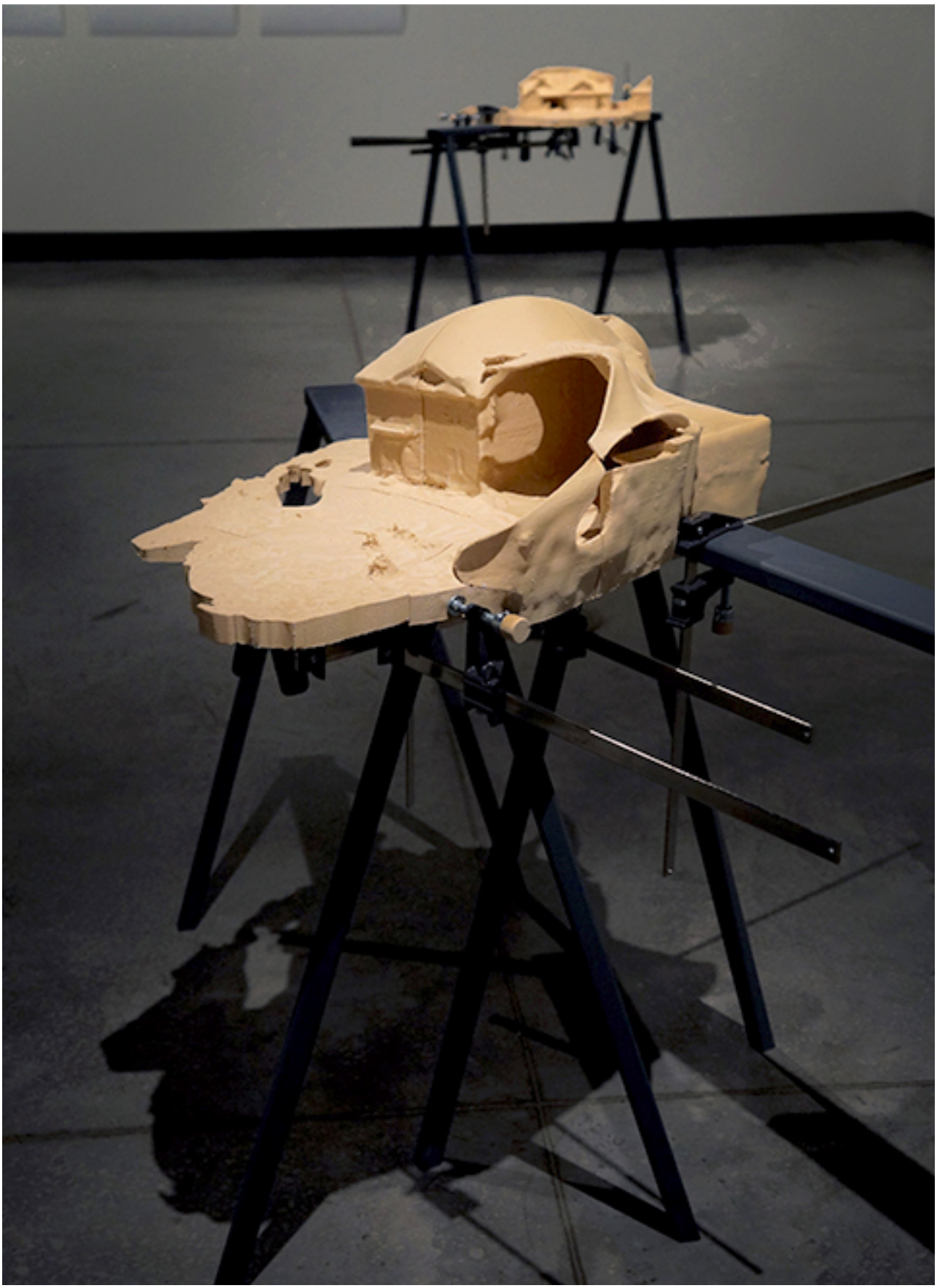
—Excerpted from the artist's statement

Installation view of re-assembled wood-fibrous 3D prints of real homes all lying within one hundred feet of active fracking well pads.

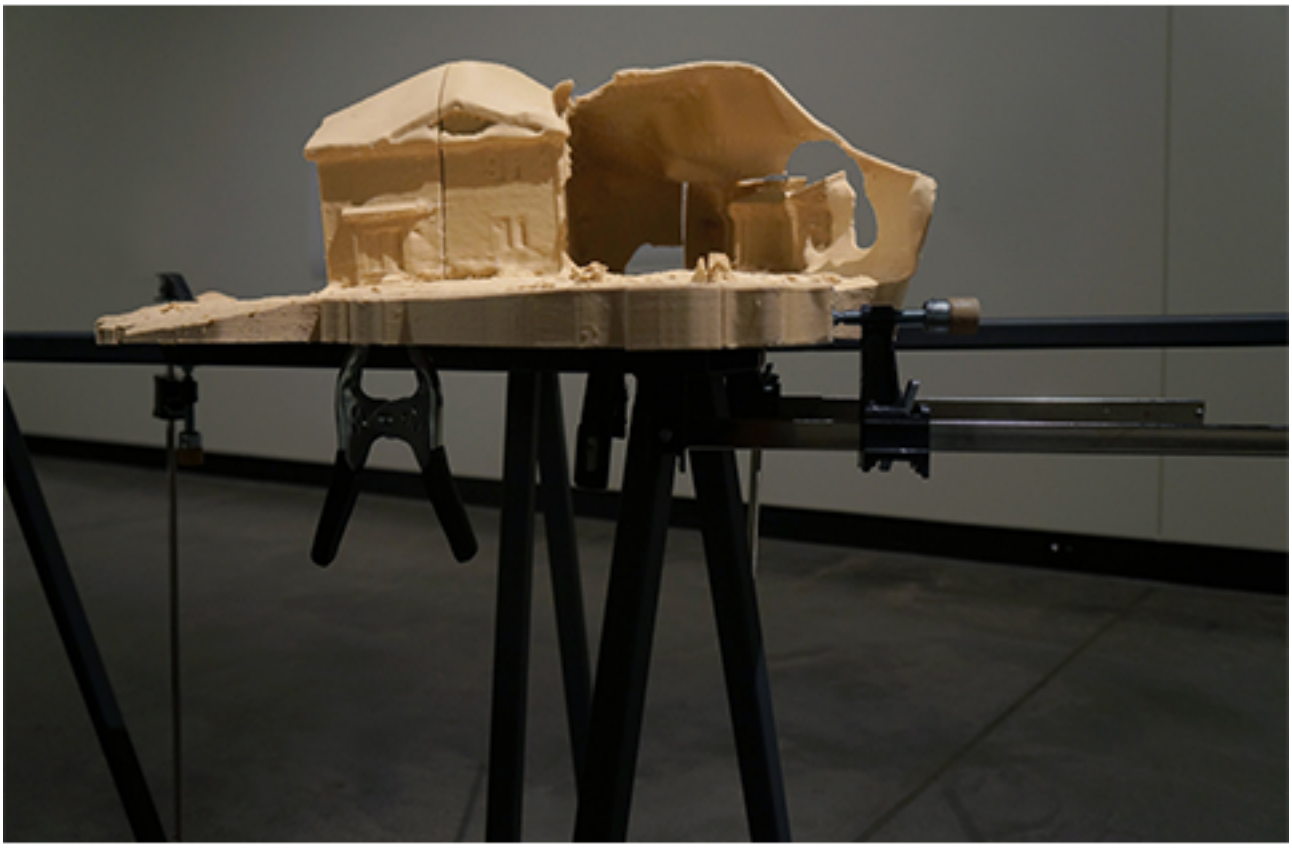




Coal Mine Street, 2017
FDM 3D print from corn-based plastic with
wood fibers, bar clamps, steel sawhorses, hardware.



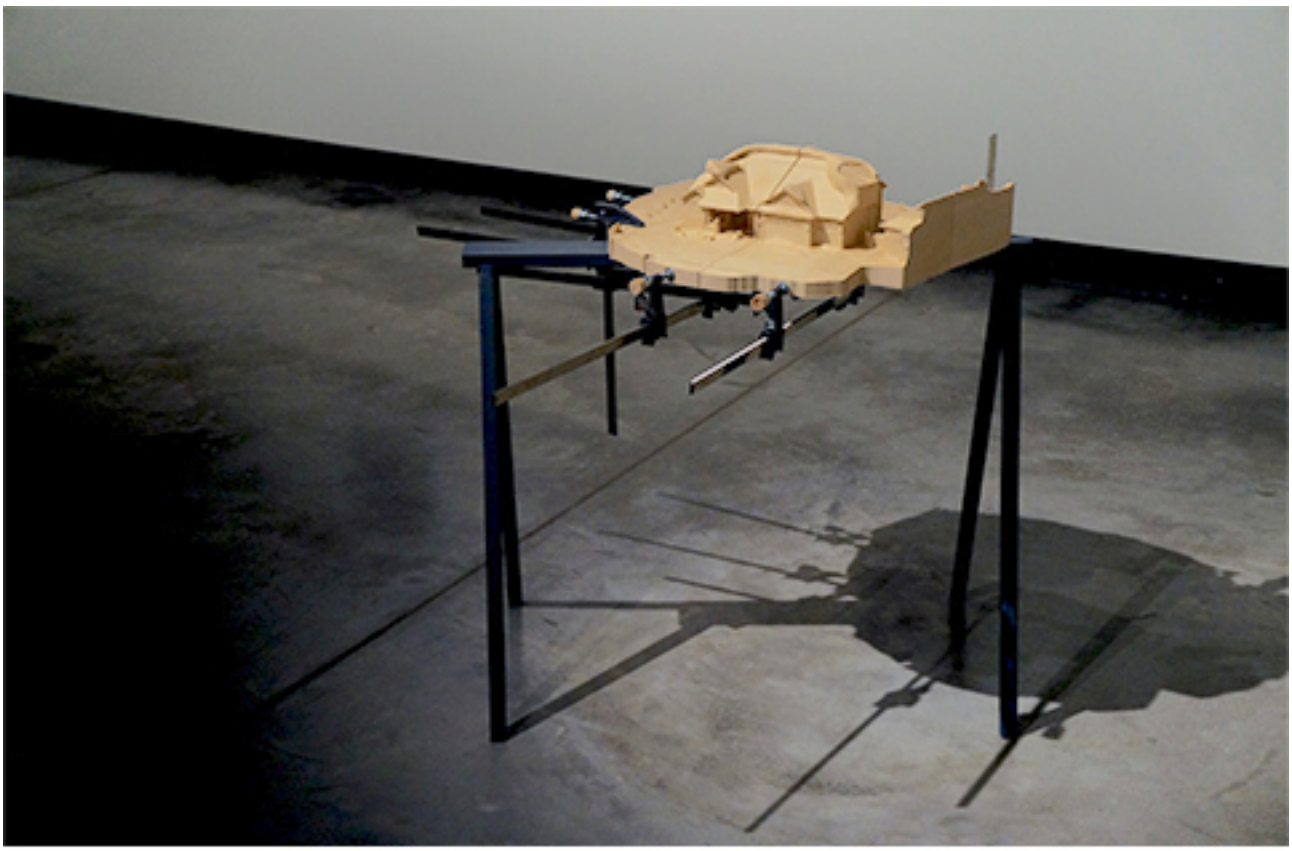
Scenic Avenue, 2017
FDM 3D print from corn-based plastic with
wood fibers, bar clamps, steel sawhorses, hardware.

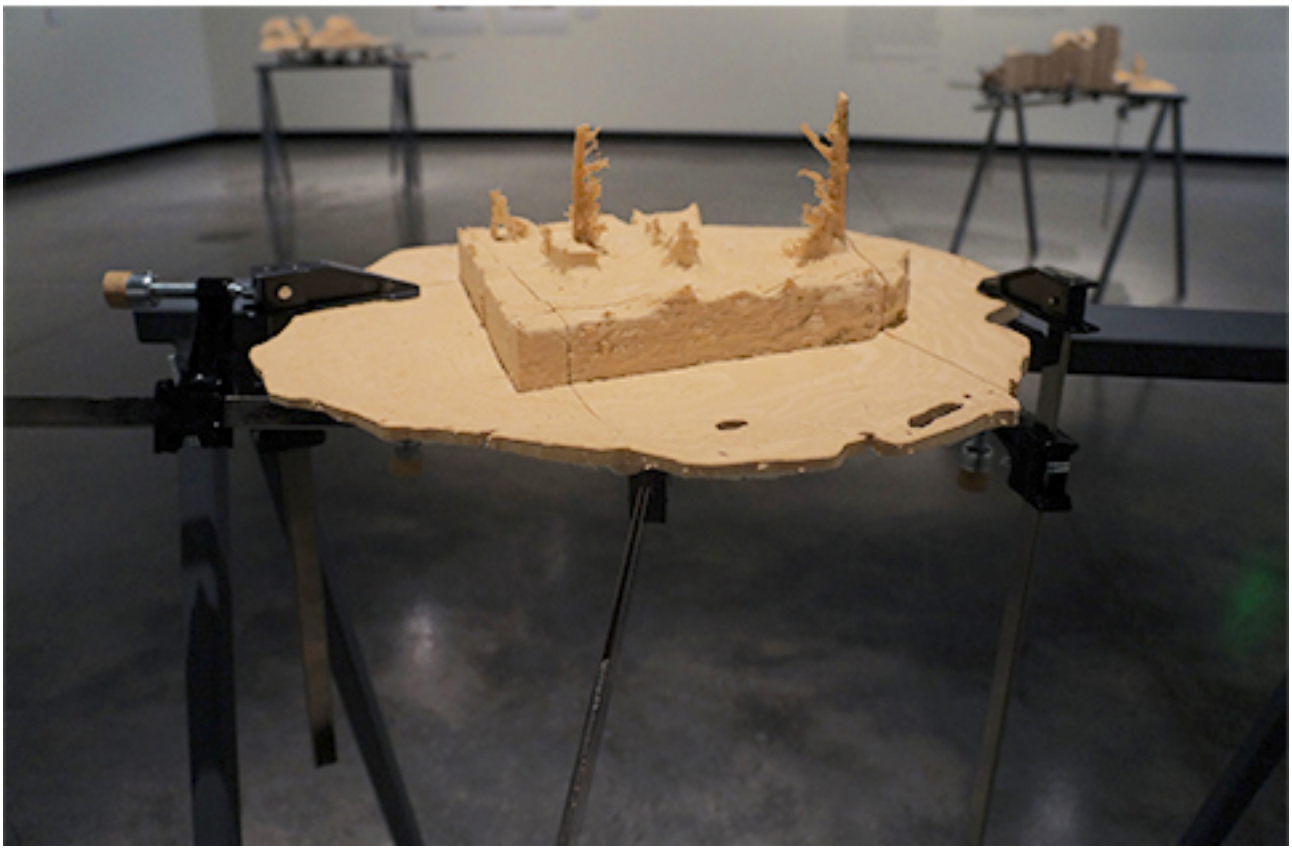


Scenic Avenue, 2017

Twilight Avenue, 2017
FDM 3D print from corn-based plastic with
wood fibers, bar clamps, steel sawhorses, hardware.

Twilight Avenue, 2017.





Mountain Shadows Boulevard and *Cimmarron Street (well pad),* 2017
FDM 3D print from corn-based plastic with
wood fibers, bar clamps, steel sawhorses, hardware.

Ebony Street, 2017
FDM 3D print from corn-based plastic with
wood fibers, bar clamps, steel sawhorses, hardware.