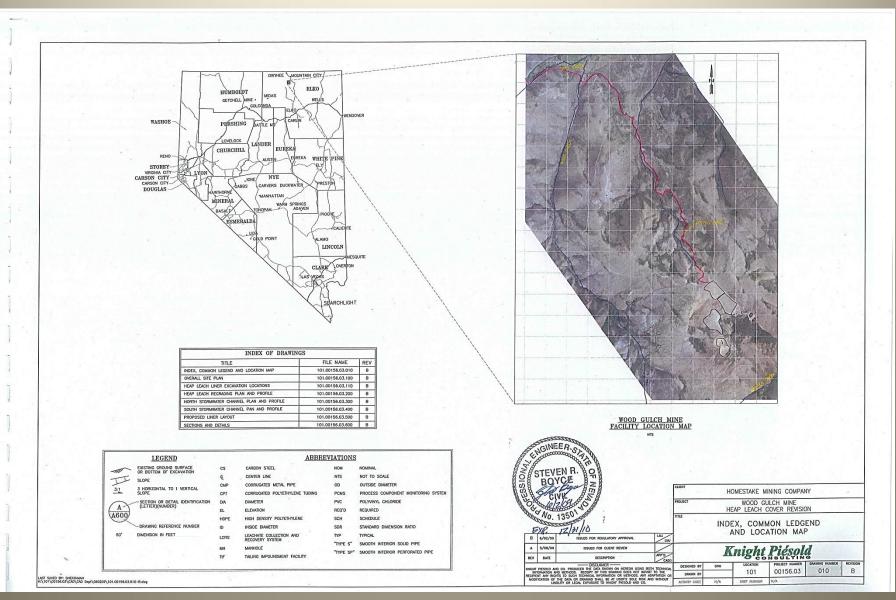
Wood Gulch Mine Long-Term Closure

Humboldt-Toiyabe National Forest

Located 80 miles north of Elko, Nevada

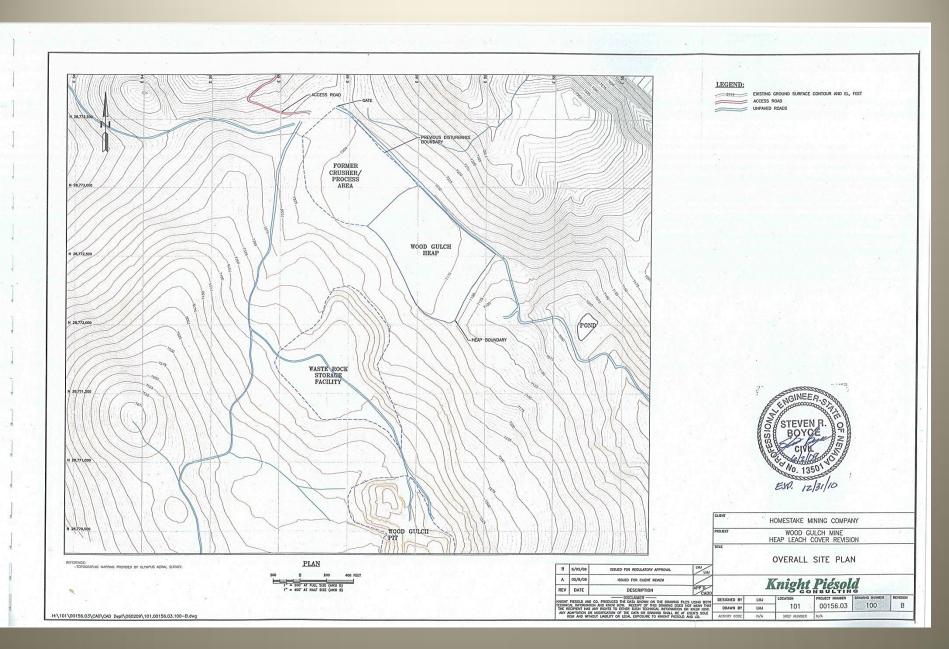


Processing area in 1989



Same processing area in 2009







Reclaimed heap leach pad in 2009



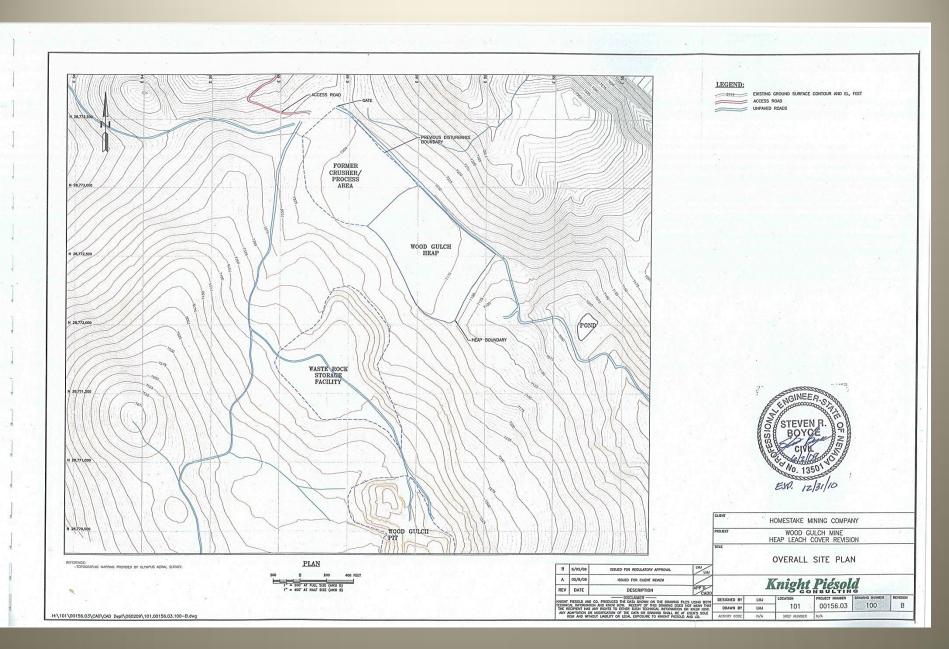






Badger Creek containing redband trout





2008 excavation locations to look at the liner edge



Exposing the liner on the west side







Photo 1. Exposing existing liner edge and dozer stripping topsoil.

Photo 2. Hauling spent ore to middle of heap and spreading with dozer.

Exposing the liner edge and removing the growthmedium in the background

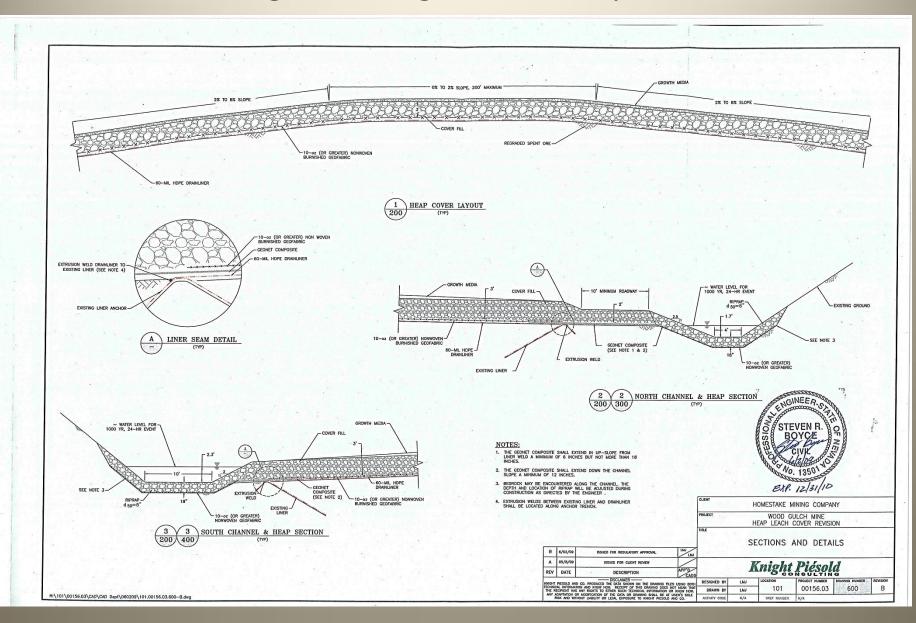
Hauling spent ore to the middle of the heap according to the grading plan

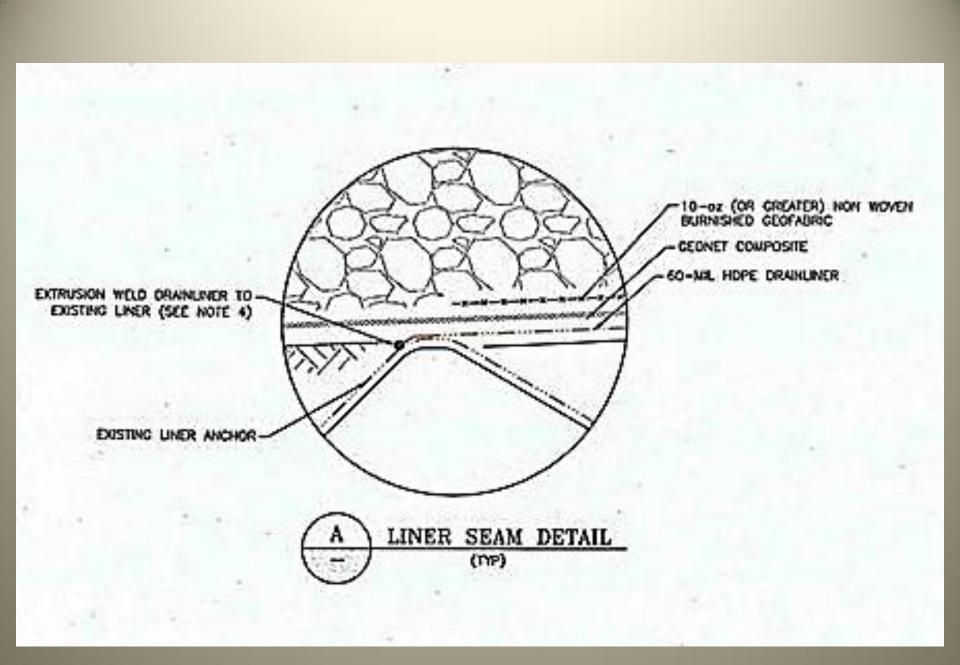


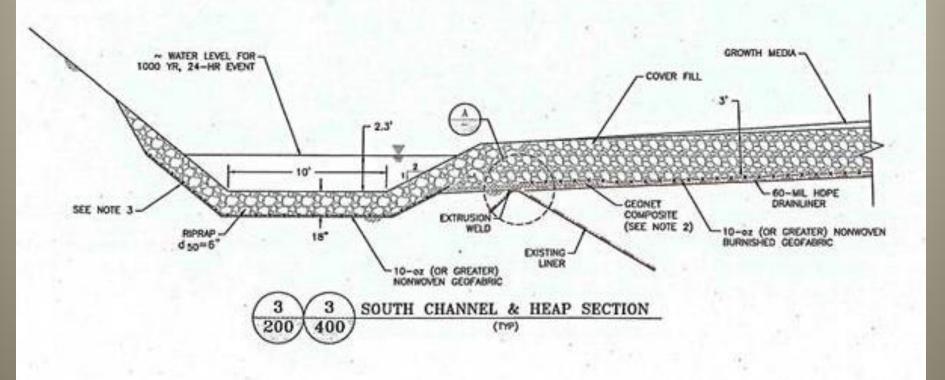
Preparing to extend the liner on the edge



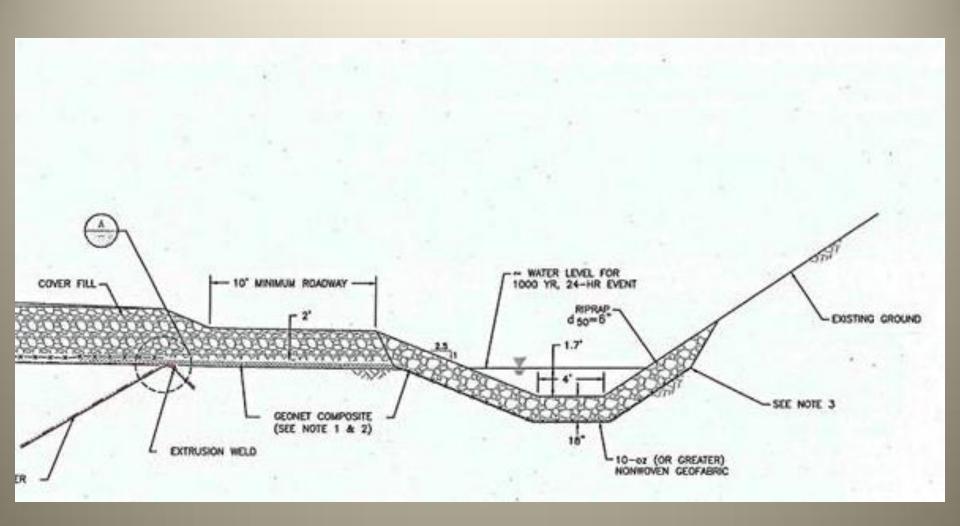
Design drawings of the heap cover







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Top soil Removed





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Photo 2 - Sample Layout (4 sheets alternating thickness)

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Testing phase of pushing the drainage layer over the liner composite

Photo 3 – Fabric Placed Over Liner Pairs

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Photo 4 – Cover Placement



Photo 9 - Offload 36 Inch Section

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Photo 10 - Indentation

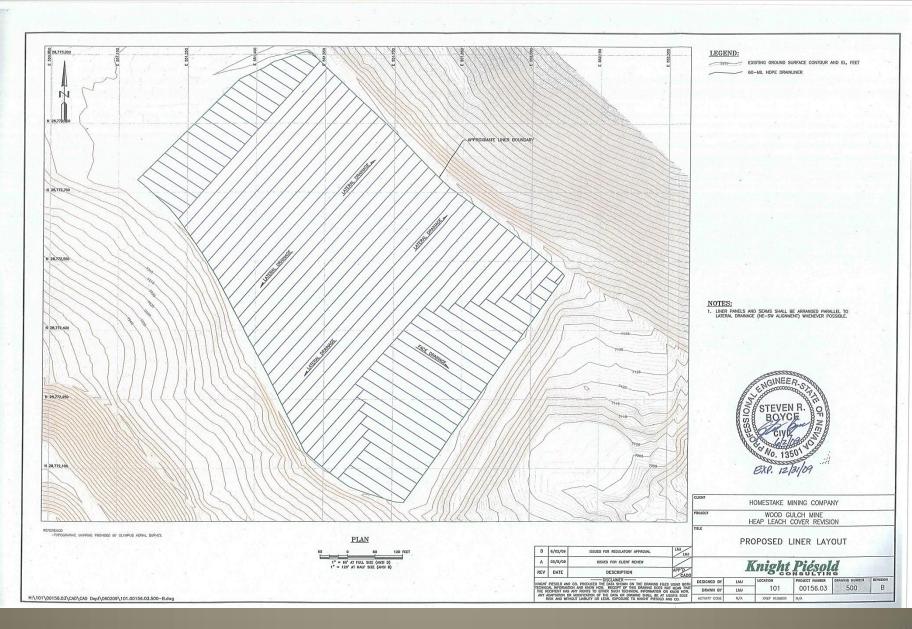
Offloading and examining the Drainliner

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Welding the liner at the edge



Liner layout design



Extended liner

North side receives the first pass of 60-mil HDPE Drainliner

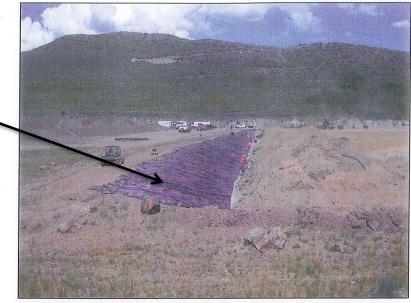


Photo 3. Extending smooth HDPE liner from existing edge to natural grade along north side of heap.



Photo 4. 60-mil HDPE Drainliner™ deployment along north side.

Welded liner

New cover liner welded to old liner



Welded seams



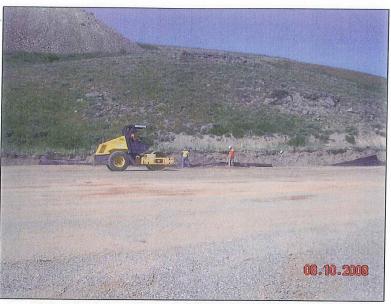


Photo 5. Smooth drum rolling regraded surface prior to HDPE liner deployment



Photo 6. HDPE liner, geofabric and cover fill placement on regraded heap, looking east.

Preparing the surface with a drum roller prior to liner deployment

Advancing liner, geofabric and drain cover rock



Photo 7. Geocomposite and geofabric placed along road and east drainage, looking south.



Geocomposite and geofabric placed along road and east drainage

Spotters used during cover fill placement

Photo 8. Spotters used during cover fill placement.





Monitoring ports



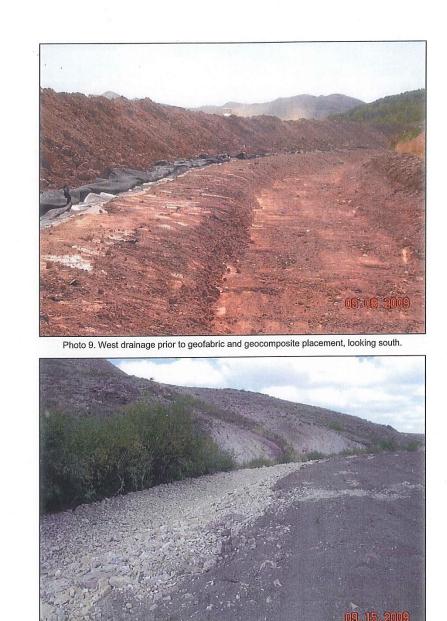
Sealed port





Excavation of the drain rock





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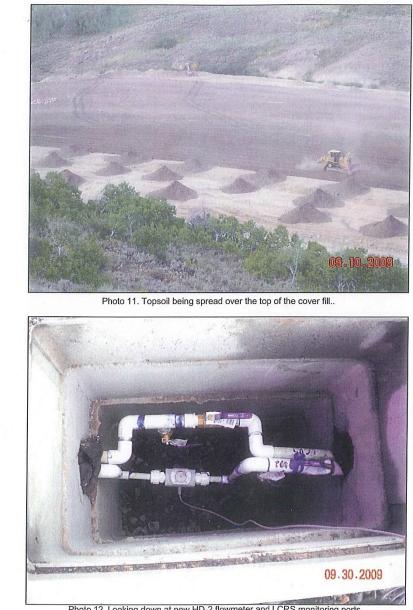
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West side drainage before and after

Photo 10. West drainage completed, looking north.



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Spreading growthmedium over the drain rock layer

Flow meter and monitoring ports

Photo 12. Looking down at new HD-2 flowmeter and LCRS monitoring ports.

Finished product, just in time. Note the waste dump has been pushed down



2010 inspection of the west drainage





Sparse vegetation in 2010



2010 looking south







Thanks to Homestake Mining Company of California and Knight Piesold Consulting