



INVERSION, 1

1890: All day long the smoke arises from the works stretches across the valley no higher than the town a still, calm sea, deep, murky Carriages have to be driven slowly trolley cars have to creep workers lose their way many people bleed from their noses some vomit in the streets inversion layer invisible hand godlike transparent palm fingers thumb heavy with value holding the smoke down on the flayed valley

ORESCAPE

In the copper area
slopes gridironed by railway tracks
steel hoist frames mark
the course of the greater veins
monotonous slopes
occasional shaft houses
innumerable pits and trenches
heaps of waste everywhere
Only by digging through the veneer
of gravel-like debris
can the limits of the intrusive masses
be established

MODERNITY

Like the hand guiding enlarging demand for copper wire 1882: Edison installed his first electrical generating and distribution system 27-ton "Jumbo" dynamo heavy copper bars and brass disks spinning around a magnetic core nearly 20 miles of thick copper wires threaded through underground conduits clean modern metal extruded into arteries of Power and Light 1902: 21,920 miles of electrified streetcars with copper-coiled electric motors

fed by copper wires

1925: Bell Telephone had bought more
than seven hundred million pounds of copper
for its nationwide phone network
vast horizontal ever spreading
voltage tree whose roots are here
copper bound with sulfur
iron and arsenic
the veins nearly vertical
a depth of over one mile
ascending to be purified
in airborne drifts of filth





RAILROADS, 1

Steel shadows

of the hand's long arm

extended from Boston

oak-chambered cranium on Beacon Hill

Officers of the Copper Mining Co.

H.H.Rogers [Standard Oil]

John D. Ryan

F.P. Addicks

C.F.Kelley

money-muscled

and along rights of way

thousands of miles

of strung-wire ganglia

the telegraph

clean modern copper

DIRECTORS OF THE COPPER MINING CO.

 $William\,Rocke feller\,[Standard\,Oil]$

J.E. Judson

E.C.Bogert

George H. Church

William.L.Bull

dash-dot synapses

transmit back and forth

capital's instructions

extraction's hungers

and fulfillments

Managers of the Copper Mining Co. 1883-1920

Marcus Daly [Owner]

William Scallon

John D. Ryan

Cornelius F. Kelley

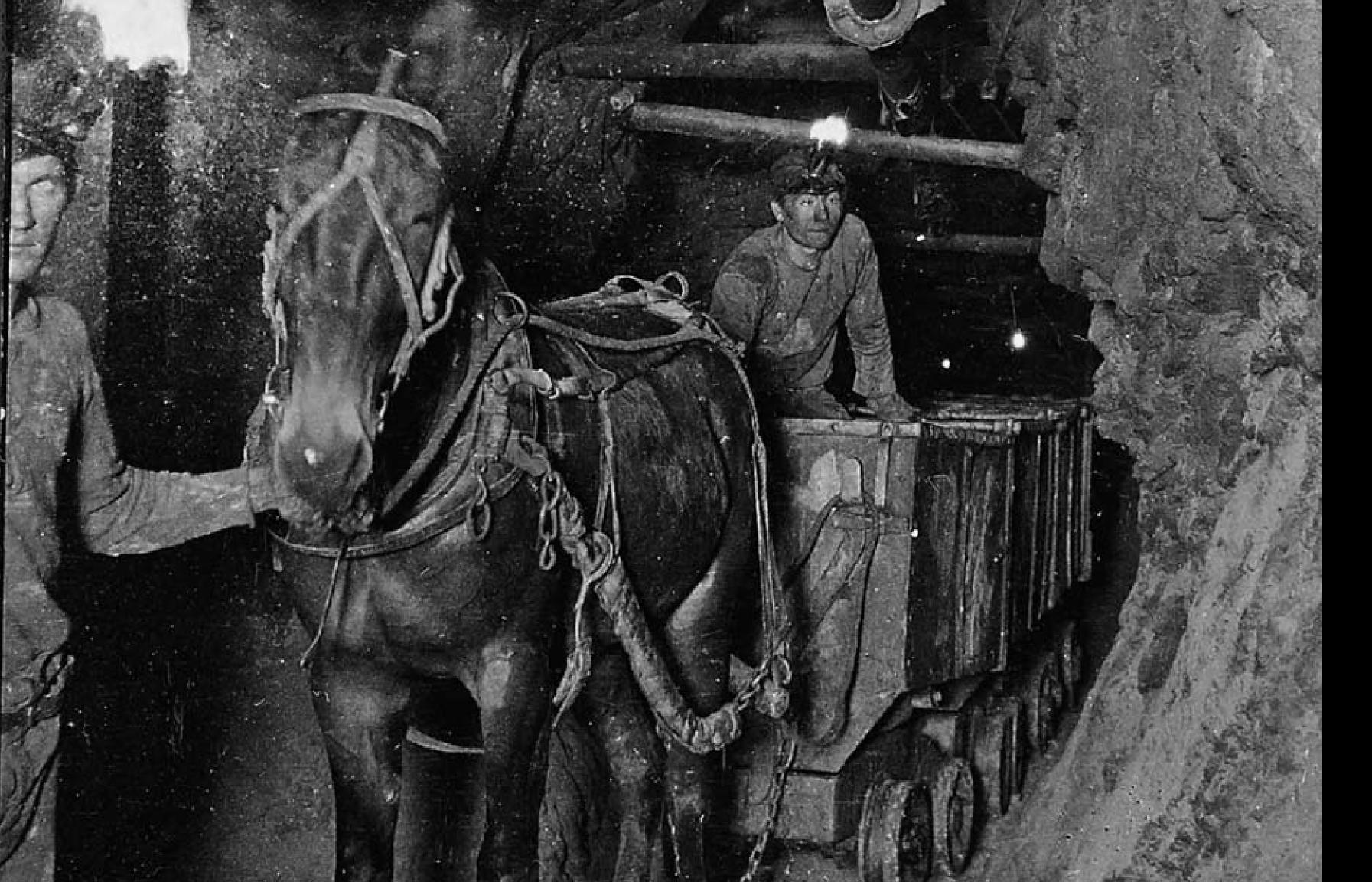
LABOR, 1

The visible hands accounted over decades grimed oiled and bruised bone tendon muscle whose grips and motions thousands a second on power-drill pick shovel lever pulley knurled wheel are melted together fused in the banks' cold converters become platonic equivalent fungible as particles of light or fine soot a bloodstream of numbers in the financial firmament value nimbus flowing always east

LABOR, 2

Hard-rock miners first drawn organized positioned raised or flattened like grimy filings by profit's magnetic field from Canada and Mexico Cornwall, Ireland, Wales Austria, Italy, Norway Croatia, Montenegro, Serbia Lebanon, Syria and China [these then expelled, boycotted, abused] go deeper year by year becoming helmet men goggled, cylinders on their backs in their Draeger breathers mile-down divers in rock follow veins and outcrops swimming through poison gas





to repair tunnels and shafts
or maskless working rock drills
they breathe freely
surface air pushed down
by gigantic pumps
thudding like hearts
machine wind branches
through hollow arteries
circulating also
the silica microgrit
that wears their lungs away

LABOR, 3

crushed
asphyxiated
poisoned
drowned
roasted
incinerated
buried alive
to die of thirst
brought up
unrecognizable

LABOR, 4

Venus Alley behind the Dumas Brothel with its three stories skylights and large parlor rooms the alley lined with "cribs" thin wooden walls just large enough for a bed a white light bulb over each entrance The women in brightly colored short-skirted dresses working at their stations at times under smoke weight pressed helpless heaving down on sweaty sheets gasping in more fouled spiritus clenching breath into rasped exorcism

RAILROADS, 2

Shadows of the hand's fingers
rail spurs and branch lines
lumber cars from the northern hills
stacked and tied
with amputated forests
ore cars from the pit heads
piled with metal shatter
ready for combustion
roll to the smelters
on steel and grassless mud
through stolen air

INVERSION, 2

From up the first brick stacks or from "heap roasting" brimstone smoke hell's heavy atmosphere pushed down on the living from above by the invisible hand

as the ore smolders
like dragon intestines
in open heaps
layered between timber
whole city blocks long

1891, January to March:
out of 246 deaths
about 71 percent pulmonary
lung abscess, chronic bronchitis
asthma, croup, pneumonia
miners 25% of male dead
average age at death: 38

arsenic, fluorides
penetrate the eyes
sulfur dioxide
burns away the lungs
the heart's furled wings
in the innocent
the old the exhausted
the underground men





- —died late at night or in the early hours
- —had complained for some time
 about 'feeling poorly'
 —had been diagnosed with a cold
- or 'consumption'
 while the damnable in mansions

GAGGED

above the smoke-sea

breathe air as clean as lace

Seeping through windowsills
floorboards ventilators
even keyholes
sulfur- and fluoride-laden
filling the schoolhouse
The children hide
their heads in their arms
tie handkerchiefs over their faces
try to take refuge under desks

hands over their mouths
their questions their fear
every cough a raw shack
door slammed against choking
lost village of children's breath
Peering through the gloom
a rancher's grandson
points at the roaring
smokestack
in the distance
"You think it'll do that
until it makes us all die?"

SMOKE FARM

Deer Lodge Valley Bielenberg Ranch *autumn* 1902 more than 1,000 head of cattle 800 sheep, 20 horses grazing under a steady stream of stinking yellow smoke sulfur centipedes bristling with wire feet crawl down their long throats claws tearing their alveoli with each breath gray metal white metal static disrupting their cells' converse nerves transmit spasm hearts falter and seize bodies founder in dusted fall grass

INVERSION, 3

the mines of Butte somehow carved out of the surrounding rock as a single block lifted up inverted and set back down a mile high at its tallest point the resulting structure of stone steel and wood twice as big as the world's largest skyscrapers nearly two miles thick at its base forest-maze of hollow branches ghost world-tree empty necropolis inside a vast grave marker for the smoke-strangled and rock-crushed dead





REDUCTION

Replacing the heaps
reverberatory furnaces
cobra-hooded
feed molten mattes
to the ranked converters
where fiery air forced through
burns off impurities
as exhaled breath
iron eggs hooped and bolted
mounted like cannons or mortars
alembics of modernity
dwarfing the workmen
sweaty in rag masks
who serve them

STACKS

fingers of black brick
two hundred feet high
gravers with hollow tines
in parallel
incise the flat sky
etch chiaroscuro
with sulfuric acid

Each new set
reaches taller
300 feet
manifesting the faith
that sin will dissipate
on the wind
as we escape upward
from a soiled world
into the heavens

while down-plume the corn
goes on shriveling
the cattle bloating on their sides
the pasture turning brown
the old lungs drowning

Finally the great Washoe stack steel and brick 585 feet high surrounded by a twenty-unit bank of electrical precipitators each a mere ten stories capture the metal-soot drop it into hoppers tracks right under the units railcars loaded with dust rich in copper, gold, and silver

RESIDUE

left when the Washoe shut down in 1980 185 million cubic yards of toxic tailings 250 thousand cubic yards of captured metal dust soon after children in nearby Mill Creek found to have dangerous levels of arsenic in their urine all Mill Creek residents evacuated and relocated houses bulldozed soil leveled and stripped off transported hidden

—Adam Cornford



