

HAER
OHIO
18-CLEV
33 -

HISTORIC AMERICAN ENGINEERING RECORD

INDEX TO PHOTOGRAPHS

OH-18

Addendum to

The Pennsylvania Railway Ore Dock
(Cleveland & Pittsburgh Ore Dock)
Cleveland
Cuyahoga County
Ohio

NOTE: All photographs were taken by Jet Lowe, HAER photographer, during the summer of 1979.

- OH-18-13 ORE DOCK, LOOKING EAST FROM HULETT NO. 1. WHEN BUILT IN 1911-1912, THIS WAS THE LARGEST ORE-UNLOADING DOCK ON THE GREAT LAKES. THE DOCK FEATURED FOUR HULETT UNLOADERS, EACH WITH A BUCKET CAPACITY OF 17 TONS; A 15-TON CAPACITY ORE STOCKING AND REHANDLING BRIDGE; AND A ONE-MILLION-TON CAPACITY ORE STORAGE YARD. THE WILLIAM-SEEVER-MORGAN COMPANY OF CLEVELAND BUILT THE DOCK EQUIPMENT.
- OH-18-14 HULETT ORE UNLOADERS IN MOTION; UNLOADING CANADIAN RED ORE FROM THE "GEORGE M. CARL." VIEW LOOKING EAST. (Also see OH-18-38, OH-18-39, and OH-18-40.)
- OH-18-15 HULETT NO. 4 AS SEEN FROM THE DECK OF THE "GEORGE M. CARL." HULETT OPERATOR HAS DESCENDED INTO THE HOLD TO TAKE A 17-TON "BITE" OF CANADIAN RED ORE. VIEW IS LOOKING EAST, WHERE THE TERMINAL TOWER MAY BE SEEN IN THE DISTANCE.
- OH-18-16 THREE-QUARTER VIEW TAKEN FROM THE REAR OF A HULETT ORE UNLOADER AS IT DESCENDS INTO THE HOLD. THE WALKING BEAM AND ITS GRAB BUCKET ARE OPERATED BY MEANS OF ROPES WOUND ON DRUMS, WHICH IN TURN ARE GEARED TO ELECTRIC MOTORS. ROUND TRIP FROM BOAT TO HOPPER CAN BE MADE IN 50 SECONDS.
- OH-18-17 ORE DOCK, LOOKING EAST FROM HULETT NO. 1. WHEN BUILT IN 1911-1912, THIS WAS THE LARGEST ORE-UNLOADING DOCK ON THE GREAT LAKES.
- OH-18-18 THREE-QUARTER VIEW OF HULETT UNLOADERS, LOOKING NORTHEAST. IF INCOMING ORE IS NOT TO BE SHIPPED IMMEDIATELY, THE "LARRYMAN" MOVES HIS CARLOAD OF ORE ALONG THE CANTILEVER AT THE REAR OF THE HULETT AND DEPOSITS IT INTO THE STORAGE YARD.
- OH-18-19 MACHINE SHOP, INTERIOR.
- OH-18-20 MACHINE SHOP, LOOKING SOUTH. SHOP IS EQUIPPED WITH A 25-TON SHAW CRANE TO HANDLE PARTS FROM RAIL CARS INTO THE SHOP. MACHINE SHOP HANDLES ALL NECESSARY REPAIR WORK ON THE DOCK MACHINERY.

Addendum to

The Pennsylvania Railway Ore Dock
(Cleveland & Pittsburgh Ore Dock)
OH-18
(Page 2)

- OH-18-21 ORE DOCK, LOOKING SOUTHWEST. THIS VIEW SHOWS THE WEST END OF THE DOCK. EMPTY CARS ARE MOVED IN FROM THE WEST BY "SHUNT CARS," PUT INTO PLACE AS NEEDED BENEATH THE HULETT'S, FILLED, THEN SHUNTED TO THE EAST END OF THE YARD WHERE THEY ARE MADE UP INTO TRAINS. THE POWER HOUSE (WITH TALL ARCHED WINDOWS) AND THE TWO-STORY DOCK OFFICE CAN BE SEEN HERE.
- OH-18-22 GENERAL VIEW OF DOCK, TAKEN FROM THE ROOF OF THE POWER HOUSE, LOOKING NORTH.
- OH-18-23 VIEW SHOWING THE UNDERSIDES OF TWO HULETT MACHINES. THE BOTTOMS OF THE LARRY CARS CAN BE SEEN BETWEEN THE TRUSSED FRAMEWORK.
- OH-18-24 REAR ELEVATION, HULETT ORE UNLOADERS. TRACKS CARRYING THE FRONT END AND REAR LEGS OF THE HULETT UNLOADERS ARE LAID ON THE DOCK AND REAR WALLS, RESPECTIVELY; BOTH WALLS ARE MADE OF REINFORCED CONCRETE SUPPORTED ON CONCRETE PILES.
- OH-18-25 FRONT END LOADERS MOMENTARILY IN REPOSE IN THE ORE STORAGE YARD. AN ORE BRIDGE THAT FORMERLY TRANSFERRED ORE WITHIN THE STORAGE YARD WAS DESTROYED BY A BLIZZARD IN 1978.
- OH-18-26 INSIDE THE "DOG HOUSE" AT THE REAR END OF THE WALKING BEAM. HERE ARE HOUSED THE HOIST ENGINE, WHICH CONTROLS MOVEMENT OF THE BEAM; AND THE ENGINES THAT CONTROL THE OPENING AND CLOSING AND SWIVEL OF THE GRAB BUCKET.
- OH-18-27 HULETT ORE UNLOADERS TEMPORARILY IN REPOSE, AS A NEW SKIP TIES UP AT DOCK. THE UNLOADERS OPERATE ALMOST CONTINUOUSLY DURING THE SHIPPING SEASON, WHICH USUALLY RUNS FROM APRIL UNTIL LATE DECEMBER OR EARLY JANUARY. VIEW HERE IS LOOKING NORTHEAST.
- OH-18-28 HULETT NO. 4 SEEN FROM THE DECK OF THE "GEORGE M. CARL." TOWARD THE END OF UNLOADING, TRACTOR SCRAPERS ARE LOWERED INTO THE HOLD TO "CLEAN UP." PRIOR TO ABOUT 1953, MEN WITH SHOVELS DID THE JOB.
- OH-18-29 ORE DOCK, LOOKING WEST, AT WORK UNLOADING THE "GEORGE M. HUMPHREY'S" CARGO OF 25,000 TONS OF ORE.
- OH-18-30 HULETT NO. 2 IN MOTION; OPERATOR HAS JUST DUMPED A GRAB BUCKET OF ORE INTO THE RECEIVING HOPPER AND IS READY TO RETURN FOR ANOTHER LOAD. A ROUND TRIP FROM THE BOAT TO THE HOPPER AND BACK CAN BE MADE IN 50 SECONDS.

Addendum to

The Pennsylvania Railway Ore Dock
(Cleveland & Pittsburgh Ore Dock)
OH-18
(Page 3)

- OH-18-31 THIS PARTIAL VIEW OF HULETT NO. 4, LOOKING WEST, SHOWS THE RAILS AND WHEELS WHICH PERMIT THE UNLOADERS' LATERAL MOVEMENT ALONG THE FACE OF THE DOCK. ELECTRIC SHUNT CARS, SUCH AS THE ONE SEEN HERE, SHUTTLE EMPTY RAIL CARS INTO POSITION BENEATH THE HOPPERS AND ASSEMBLE THEM INTO TRAINS WHEN THEY ARE FULL.
- OH-18-32 BUCKET POSING OVER CARGO HOLD; NOTE OPERATOR OVER BUCKET.
- OH-18-33 REPAIRMEN ARE AT WORK ON THE HULETT'S GRAB BUCKET. BUCKET IS SEEN HERE IN ITS FULL OPEN POSITION.
- OH-18-34 REPAIRMAN IN CONSULTATION ON REPAIR OF BUCKET.
- OH-18-35 HULETT No. 4, LOOKING WEST; DETAIL OF REAR CANTILEVER.
- OH-18-36 ORE DOCK, LOOKING WEST. HULETT UNLOADERS AWAIT THE NEXT ORE BOAT. BY LATE WINTER, THE ORE STORAGE YARD SEEN AT LEFT WILL BE DEPLETED.
- OH-18-37 SHUNTING CAR USED TO MOVE RAILROAD CARS.
- OH-18-38 HULETT ORE UNLOADERS IN MOTION; UNLOADING CANADIAN RED ORE FROM THE GEORGE M. CARL." VIEW LOOKING EAST. (Also see OH-18-14, OH-18-39, and OH-18-40)
- OH-18-39 HULETT ORE UNLOADER IN MOTION. VIEW LOOKING EAST. (Also see OH-18-14, OH-18-38, and OH-18-40)
- OH-18-40 HULETT ORE UNLOADER IN MOTION. VIEW LOOKING EAST. (Also see OH-18-14, OH-18-38, and OH-18-39)