INTERSTATE CONTERCE COMMISSION

REPORT OF THE DIRECTOR OF THE BUREAU OF SAFETY CON-CERNING AN ACCIDENT WHICH OCCURRED ON THE MISSOURI PACIFIC RAILROAD NEAR MALVERN, ARK., ON APRIL 9,1932.

May 11, 1932.

To the Commission:

On April 9, 1932, there was a derailment of a freight train on the Missouri Pacific Railroad near Malvern, Ark., which resulted in the death of four trespassers.

Location and method of operation

This accident occurred on the Little Rock District of the Arkansas Division, which extends between North Little Rock and Texarkana, Ark., a distance of 146.05 miles; in the vicinity of the point of accident this is a single-track line over which trains are operated by time-table, train orders, and an automatic block-signal system. The point of accident was within the yard limits of Malvern, 3,844 feet north of the station; approaching this point from the north, the track is tahrent for more than 1 mile, with a descending grade of 0.35 per cent at the point of derailment. The track is laid with 90-pound rails, 33 feet in length, averaging 20 treated hardwood ties to the rail-length, practically all of which are tie-plated, and is single-spiked and ballasted with washed gravel to a depth of approximately 10 inches; the track is well maintained. The maximum speed permitted for freight trains is 45 miles per hour.

The weather was clear at the time of the accident, which occurred about 4.45 n.m.

Description

Southbound freight train No. 67 consisted of 71 cars and a caboose, ith an auxiliary water car next to the engine, and was hauled by engine 1539, in charge of Conductor McDonald and Engineman Stewart. This train departed from North Little Rock at 3.30 n. n., three hours late, and was derailed near Malvein, 44.54 miles south of North Little Rock, while traveling at a speed estimated by the crew to have been between 35 and 40 miles per hour.

The locomotive and first 13 cars were not derailed and came to rest with the thirtheath car 2,607 feet south of the point of accident. The fourteenth car was parti-

TETTE PORT TO THE STATE OF THE

-CO TITUD OF CANCEL OF THE CONTROL OF T

A De la region de la company d

Courting and Assess of suspection

AND THE RESIDENCE AND THE STATE OF THE STATE

The same state of the same of the same

postanta es

。 教室会計を 🌉 タイド とう

e Dellam n.

and and to the late of

ally derailed and stopped about 500 feet south of the point of accident, while the fifteenth to the thirty-first ears, inclusive, were derailed and niled up within a space of approximately 225 feet. The four trespassers killed were riding on the fifteenth car.

Summary of evidence

Engineman Stewart stated that a test of the air brakes was made by the car inspectors before leaving North Little Rock and he was informed all brakes were operating; he also applied the train brakes and came to a stop on leaving the yard, and there was no indication of any defective brakes. The next amplication was made to reduce the suced of the train at Hot Springs Junction; this application was released while moving at a speed of about 20 miles our and the brakes functioned properly at that time. A 9-pound reduction was made when approaching Malvern, at a speed of 35 to 38 miles per hour, and a few seconds after the brake-pipe exhaust had ceased blowing he felt a slight jerk in the train, and the brakes applied in emergency, and as he looked back he saw the cars being derailed. He stated that the undesired emergency indicated to him that the train had parted, and that the jerk he felt might have been caused by a quick-action triple, although it felt as it often does when handling a train composed of loaded and emmty cars, with the slack running in and out. On going back to the wrockage he found the coupler missing from the rear end of the thirteenth car and saw a coupler with a broken yoke lying in the center of the track, north of the fourteenth car; the fracture appeared to be new and clean, and he found nothing about the train that might have caused the counter to come out. After the derailment the rear portion of the train was hauled back to Gifford, 4.10 miles from Malvern, and when he was able to get his engine by the derailed cars Enginoman Stewart proceeded to that point and made several tests of that portion of the train, in the presence of officials of the commany, in an endeavor to locate a reported quickaction trible, but to no avail, and after these tests this portion of the train was returned to Malvern, the brakes functioning properly. At Halvarn the two portions of the train were poined together and taken to Texarkana, and again there was no indication of a defective triple, although the brakes were used several times. Fireman Evans' statements corroborated those of Engineman Stewart, while Head Brakeman Dillon brought out nothing further of importance.

Conductor McDonald stated that no stops were made between North Little Rock and the noint of accident, but that the brakes functioned properly when used to reduce

The road to been passed by the passed by the

The state of the s

Car Inspectors McNutt and Lewter stated they made the required air-brake test on train No. 67 before it departed from North Little Rock and found all brakes operating.

Section Foreman Heath stated that he arrived at the scene of the accident about 5.45 p. m. and make an examination to ascertain the cause of the accident; he found various marks on the ties which he thought were caused by something that had fallen from the train to the center of the track, and after finding the detached drawbar lying on the track, he decided that was what had made the marks and caused the derailment.

General Car Inspector Dysart stated that his inspection of the drawbar and proken yoke disclosed that the break was new, as no flaws were found in the metal, and he thought the yoke had been broken by a severe jerk; he did not know whether this jerk was caused by a defective triple valve but it was his ominion that if a triple valve had caused the break it would have to be located toward the rear of the train. He also stated that he was present at a series of tests at Gifford trying to locate a defective triple, but that no undesired emergency has obtained in these tests or in a running test made when leaving Gifford.

The first mark in the vicinity of the accident was on the top of a tie near the center, 201 feet south of mile post 338; the mark was about 10 inches wide and indicated that the tre had been struck by some heavy object. The next mark was 39 feet south of this point and also was on a tie, just inside the lef rail; this Was a light mark, as was also the case with marks found on three other ties farther to the south. The first mark of a wheel consisted of a flance mark on the inside of the east rail and the outside of the west rail, 87 feet south of the first tre mark; these marks led to the left for a distance of 14 feet, and from them on the track was torn out for a distance of 361 feet. coupler which had bulled out of the rear of the thirteenth our was found in an upright position between the rails 401 fout south of the first marked tie, while the back end of the coupler your was found approximately opposite the first marked tie. This coupler came from Tabash box 73199; this car had arrived in the yard at North Little Rock on the afternoon of the accident and departed in train No. 87 about 55 minutes afterwards, no exceptions having been taken or remairs made. coupler involved has a type D ARA coupler with Cardwell draft gear. The jobe was probed at the back end where bent to for the top and bottom straps; the oreak was new, with no flars virible, and the springs, spring rods, and other marts of the draft gear appeared to be in good condition.

The particular spectage of the mulicular complete.

Secretary accounts to complete and the process of the secretary and secret

All of the employees intered tore experienced management to see and the agel deal management from and appear of the production of the prod

recorded the recorder of the contract was

Respectfully automitted.

The state of the section of the best of the the state of the control of the state of the state of the THE WAR AND STATE THAT IN LESS MARKED THE PARTY OF THE PA telow at the follow that we want to be the transfer about the alle feet but he had been the real of the contraction THE RESERVE OF THE PROPERTY OF THE PARTY OF BANKE OF TO PARTY TO PROPERTY OF PROPERTY OF THE PARTY OF The state was not to about the state of the first the state of The first way of the first of t and a feet with the set of the constant of the the falls on it may not be an author and delice televine THE ME THE COURSE OF THE PROPERTY OF THE PARTY AND THE A STATE OF THE PARTY OF THE PAR After to break to a fer and the contract flow and Alice and Alice and and the second s the state of the s WE THE THE THE PROPERTY OF THE PARTY OF THE PROPERTY OF THE PR The transfer of the contract o

At a commence the state of the