

INTERSTATE COMMERCE COMMISSION
WASHINGTON

REPORT NO 3312
LOUISVILLE AND NASHVILLE RAILROAD COMPANY
IN RE ACCIDENT
NEAR LONG BEACH, MISS., OR
FEBRUARY 18, 1950

SUMMARY

Date.	February 18, 1950
Railroad	Louisville and Nashville
Location	Long Beach, Miss.
Kind of accident:	Derailed
Train involved:	Passenger
Train number:	99
Engine number.	Diesel-electric units 777 and 775
Consist.	19 cars
Estimated speed	55 m. p. h.
Operation:	Timetable, train orders, automatic block-signal, cab-signal and train-stop systems
Track:	Single, tangent; level
Weather	Hazy
Time:	7 a. m
Casualties	82 injured
Cause.	Broken rail

INTERSTATE COMMERCE COMMISSION

REPORT NO. 3312

IN THE MATTER OF MAKING ACCIDENT INVESTIGATION REPORTS
UNDER THE ACCIDENT REPORTS ACT OF MAY 6, 1910.

LOUISVILLE AND NASHVILLE RAILROAD COMPANY

March 31, 1950

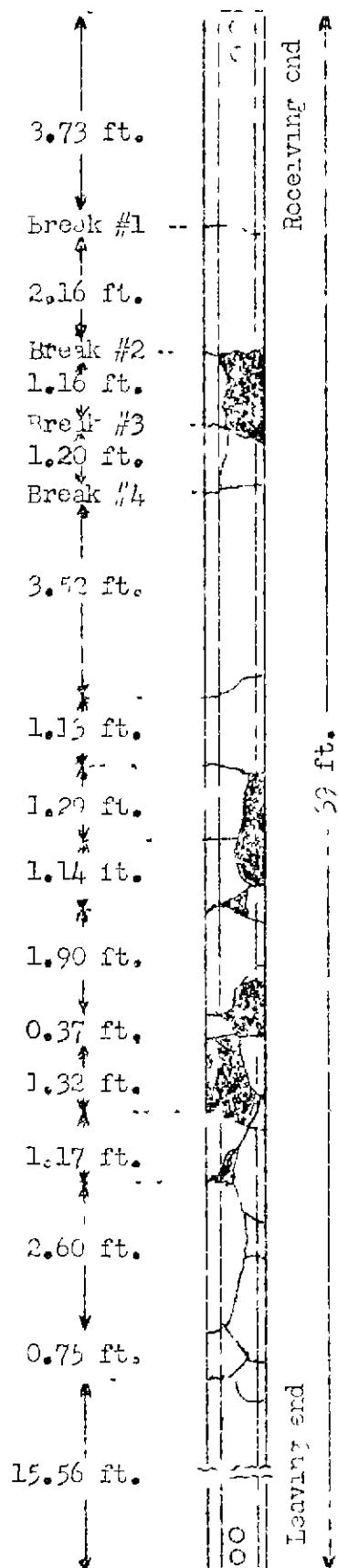
Accident near Long Beach, Miss., on February 18, 1950,
caused by a broken rail.

REPORT OF THE COMMISSION¹

PATTERSON, Commissioner:

On February 18, 1950, there was a derailment of a passenger train on the Louisville and Nashville Railroad near Long Beach, Miss., which resulted in the injury of 79 passengers and 6 dining-car employees.

¹ Under authority of section 17 (2) of the Interstate Commerce Act the above-entitled proceeding was referred by the Commission to Commissioner Patterson for consideration and disposition.

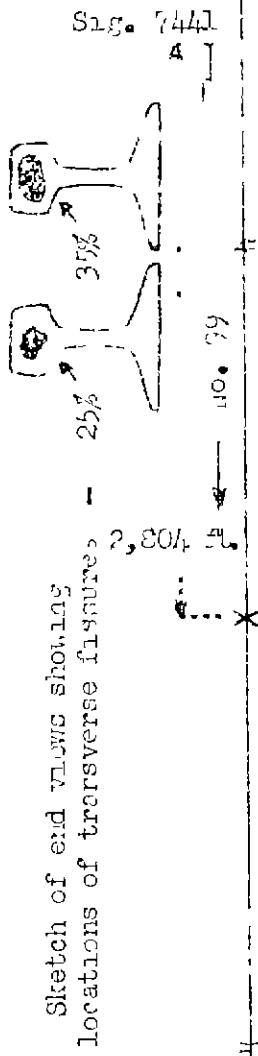


Sketch showing broken rail -
west side of track

Receiving end

27 ft.

Sketch areas indicate
missing portions of rail



Sig. 7441

A

10.79

*

Tangent
5.28 mi.

To Long Beach
2.05 mi.

Point of accident

Tangent
5.65 mi.

To New Orleans

- o Sibert, Ala.
2.34 mi.
- o Mobile, Ala.
72.64 mi.
- o Gulfport, Miss.
3.61 mi.
- o Long Beach, Miss.
2.05 mi.
- X Point of accident
61.27 mi.
- o New Orleans, La.

Report No. 31
Louisville and Nashville Railroad
Long Beach, Miss.
February 12, 1950

Location of Accident and Method of Operation

This accident occurred on that part of the Montgomery, New Orleans and Pensacola Division extending between Mobile, Ala., and New Orleans, La., 142.11 miles. In the vicinity of the point of accident this is a single-track line, on which trains are operated by timetable, train orders and an automatic block-signal system, supplemented by an cut-off train-stop and cao-signal system of the continuous-in type. The accident occurred on the main track 20.2 miles south of Sibley and 2.05 miles south of the station of Long Beach. The main track is tangent throughout a distance of 6.28 miles immediately north of the point of accident and 5.95 miles so farward. The grade is practically level.

In the vicinity of the point of accident the track structure is laid on a 4-foot fill, and consists of 100-pound rail, 29 feet in length, laid new in June, 1930, in an order of 28 treated ties to the rail length. It is fully fastened with single-shoulder tie plates, single-spiked, and is provided with 4-1/2-inch joint bars and in average of 6 rail anchors per rail. It is ballasted with crushed slag to a depth of 18 inches below the tops of the ties.

Automatic signal 7441, warning south-bound movements, is located 2,801 feet north of the point of accident.

The maximum authorized speed for the train in this accident was 70 miles per hour.

Description of Accident

No. 59, a south-bound first-class passenger train, consisted of Diesel-electric units 777 and 775, control in unit, unit control, one baggage car, one mail car, one bar and car, one sleeping car, three coaches, five cars, one dining car, two sleeping cars, one coach and two sleeping cars, in the order named. All cars were of all-steel construction. They were equipped with conventional type couplers except the seventh car, which was equipped with a tightlock coupler at each end. This train departed from Mobile, 76.45 miles north of Long Beach, at 3:15 P.M., 15 minutes late, departed from Gulfport, the last open office, 8.06 miles north of the point of accident, at

At 7:50 a.m., 32 minutes late, passed automatic signal No. 7441, which indicated Proceed and while moving at an estimated speed of 55 miles per hour the third to the twenty-first cars, inclusive, were derailed.

Suspensions occurred at each end of the fifth, sixth and seventh cars. The Diesel-electric units and the first seven cars stopped with the front end of the first Diesel-electric unit 1,507 feet east of the point of derailment. The third car remained upright on the roadbed. The fourth car stopped approximately 8 feet west of the center-line of the track and almost parallel to it. The fifth car stood 65.1 feet south of the point of derailment, with its south end 15.7 feet and its north end 2 feet west of the track. The sixth car stopped on its side, against the north end of the fifth car, and at an angle of 80 degrees to the track. The seventh car stopped 20.5 feet to the north end of the sixth car and at an angle of 75 degrees to the track. Its north end was 16 feet west of the track. The eighth to the nineteenth cars remained coupled and in line. The south end of the eighth car stopped 26.5 feet west of the track, and the north end of the twelfth car stopped on the roadbed. The tenth to the eleventh cars, inclusive, were considerably damaged, and the third, twelfth and thirteenth cars were slightly damaged.

The weather was hazy and it was daylight at the time of the accident, which occurred about 7 a.m.

Discussion

No. 39 was moving on tangent track at an estimated speed of 55 miles per hour, in territory where the maximum authorized speed was 70 miles per hour, when the derailment occurred. As the train was approaching the point where the accident occurred the engineers were maintaining a lookout speed from the control compartment of the first Diesel-electric unit. The conductor and the train porter were in the thirteenth car and the flagman was in the nineteenth car. Signal 7441, governing south-bound movements into the block in which the accident occurred, indicated Proceed. Before the derailment occurred the engine and the cars were riding smoothly, and there was no indication of defective equipment or track, nor of any obstruction having been on the track.

After the accident occurred a broken rail was found on the west side of the track. This rail was broken in 150 pieces, 83 of which were recovered. The first break occurred at a point 3.73 feet south of the receiving end of the rail. The second, third and fourth breaks occurred at points 1.10 feet, 3.32 feet and 4.52 feet, respectively, from break No. 1. Then 15.19 feet of the rail was broken into at least 25 pieces varying in length from 0.37 feet to 3.52 feet. At breaks Nos. 2 and 4 there were transverse fissures which covered, respectively, 35 percent and 25 percent of the cross-sectional area of the head of the rail. Neither of these fissures extended to the surface of the rail. The other breaks were minor and apparently occurred as a result of the derailment. Apparently the rail failed when the front portion of the train passed over it, then the broken pieces became dislodged and the derailment followed. This rail was manufactured by the Tennessee Coal, Iron and Railroad Company in April, 1920. The heat number was 937204, Letter A, Ingot No. 12.

The track in this vicinity was last inspected by the track supervisor and by the section foreman from a track motor-car about 2½ hours before the accident occurred, and no defective condition was observed. A rail-defect detector car was operated over this line on September 16, 1949. No defective condition was indicated in the rail in question or any other rail bearing the same heat number.

Cause

It is found that this accident was caused by a broken rail.

Dated at Washington, D. C., this thirty-first day of March, 1950.

By the Commission, Commissioner Patterson.

(SEAL)

W. P. BARTEL,

Secretary.