IN AN INVESTIGATION OF AS ACCIDENT MEICH OCCURRED ON THE AREAPTIC COACT LINE BAILROAD WEAR BLACK, S. C.,

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January 10, 1919.

on Possmber 6. 1918, there was a derailment of a passenger train on the Atlantic Coast Line Emilroud near Slrod.

N. C., which resulted in the death of 3 passengers and the injury of 1 employee and 38 passengers. After investigation the Chief of the Bureau of Safety reports as follows:

trict of the First Division on which this accident constraint a single-track line extending between Purkton, R. C. and R. R. Tower, S. C., a distance of 59.8 miles, ever which train movements are soverned by time-table, train orders and a manual block system.

The train involved was southbound passenger train

Ho. 89, consisting of engine 440, one steel box express ear,

three steel underframe coaches, two steel sleeping cars, one

steel baggage ear, two steel underframe express cars and one

wooden express car, in the order named, and was in charge of

Conductor Limpson and Engineman Berbour. This train left

Fayetteville, E. C. at balk passe, Sk minutes late, passed

Fembroke, E. C., the last station north of point of socident

at 6.22 pass., 35 minutes late, and at 6.30, while running at

a speed variously estimated at from 25 to 40 miles an hour,

was derailed at a facing point switch at the north end of the

passing track at Alred, about 40 or 45 car lengths north of

the station. The weather at the time was dark but clear.

The engine levelled about 10 feet from the point of the switch and, sailed by the rail, began taking the turn-out. It run with the shoels of one side on the ties of the nain truck, and the whocle of the other side on the tied of the side track, until it finally came to rest on its loft side at an angle of 45 degrees a distance of 530 feet from the point of derailment. The express car immediately bealed the engine came to rest on its left side almost diagonal with and eleur of the side track: the second car, a couch, came to reet on its left side with the south end resting on the crpress our unead and its north and resting on the ground, its loft side torn out about half Ita length by telescoping a corner of the express our. All the fatulities occurred in this couch. Inc next couch continued its course wlong the readled of the main track and care to rest about opposite the car where out leaning to the right against some freight care on the storage track. The next three cars, a coach and two Pullman alceping cars, were entirely derailed but remained upright. The buggage our immediately behind these care had its front trucks dorailed while the rear trucks remained on the truck. This our stopped with its center about ever the seitch whore the cordilment began. The three remaining care fore not derailed. The main and passing tracks were torn up for a distance of about 350 feet.

approaching the scene of the accident from the north the track is straight and practically level for a distance of

about a mile. The system of tracks at Aired consists of a storage track located on the west side and a passing track located on the cast side of the main track, both tracks paralleling the main track.

The main track at and adjacent to the point of derailment is laid with 85-pound rails 33 feet long with 18
untreated pine ties unlereach rail. The rails are single
spiked and bellasted with mund and gravel. The track is in
good condition, except that the ties are considerably rail
out, due to lack of the platon. The switch at the north end
of the passing track was laid with a Se. 10 frog, and the
exited points were tied with four tie bars. The switch
thad was an old model lamage 3 1108, having a throw rod with
a clevis jaw, into which the extension of the primary tie bar
was inserted and held by a 7/6 inch bolt, with a nut arranged
for use of a cotter key.

at the northbound passing track switch when it went in siding. He estimated the speed at about 30 miles an hour and stated that he applied to brakes three or four hundred feet north of the point of derailment in order to comply with a slow order of 20 miles passing Bired station. He stated that he saw the switch lights burning and that the first intimation he had that anything was wrong was when he saw fire fly when the engine struck the switch and felt the engine leaving the track. He said the engine leaving

he ind no opportunity to apply brazes again. The engine plowed in the ground and tore up the track from the point of detailment to the joint where it came to rost. He stated that he had inspected the engine before leaving hooky hount and found it in good condition and that the brakes were working exceptionally well.

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promon Lawrence stated tout as his train was approaching Throd he was sitting on the seat box, had just opened the blower and was about to open the door when the engine jumped. He said that he did not see the switch point but that he did notice that the target was white. The first intiation he had of a derailment was fire coming from undermouth the private. To stated that he believed the pony truck was dorailed first, and that the train was running about 25 or 30 miles an hour at one time.

ment occurred his train and traveling about 40 miles an hour.

In mas in the fourth our from the engine and had just called the station mien is fait the sar jump the truck and then a crinding grash two or three times and thought the car was going to turn over. As soon as the car stopped he tried to get out of the front door but found it jammed. He then sent through the car and quieted the passengers. After rendering what antistance was necessary, and about an hour or an hour and a half after the accident, he and daggagementer andrews examined the switch and found it set and looked for the main track.



but the threw rod was disconnected. They found a rusty belt which showed much wear under the threw rod and looked for a dott respect found none. The switch point on the coat side was in position and all right but the west side point was missing. They found a piece of the switch which looked as if it had been broken off about three feet from the end of the point. Conductor simpson stated that it was a fresh break and that he believed to engine broke it, but said that he was anable to determine positively. He stated that he believed the accident was due to a cooked switch.

Busgagemester andrews stated that he was in the bagcase car as the train came into Alrea and the first intimation he and of trucce was men he felt what he thought was an emergency application of the air brakes. He estimated the speed of his train at about 25 or 30 miles an hour at the time it was derailed. He stated that he and the conductor went back to the switch about an hour afterwards and examined it. he found the lever and look both intact. He looked under the rail and found that the throw red was disconnected from the lover trat controls the switch point and picked up a bolt which had the appearance of maving come out of the rot where connection is made. He stated that the bolt was eld and worn but had not been broken. It was arranged for use of a cotter key, but they could not find the cotter key. The bolt, he stated, was broken where the hole goes through it, but this break was old and rusty. The bolt looked as if it had not

in the loper position. Le further stated that the switch point on the east side some there all right but on the west side was there all right but on the west side was torn out and the track was badly torn up for some distance.

Flagman Borden stated that the train was approaching lived at a speed of about 35 or 40 miles an hour when at the north witch of the east assing track he felt several sudden lunges of the train and was knocked down in the car. He got up and braced himself and as soon as the train case to a stop he went back to flag.

Readmaster indrews stated that he arrived at the scene of the accident between 11 and 12 o'clock and found that none of the equipment had been disturbed. He stated that he found about 350 feet of both main and passing track torn up, the switch term up, the throw rod disconnected from the switch points, and the right hand point broken in three parts. ber one tie rod had the appearance of being best or aprung and all the tie rods were broken. The tie har was disconnected from the throw rod and the bolt was missing, but there was no indication that the disconnection was a result of the accident. The tie bar that was convected to the throw red was broken moved four root from the outside rail as a result of the accident. The first indication of derailment was about 15 feet south of the switch. o stated that he did not know what caused the derailment but that it looked as if momething struck ine right hand switch point and saused the other point to jur off, broke the right hand point and pulled it open from the rail. He sould not account for the throw rod being dimensected from the switch. He stated that his last inspection of this switch was made on the third day of December at which time the switch was in good condition. On that occasion the connecting bolt between the threw rod and tie bar was in place but he did not look undermeath to determine if it contained a nut and cotter key. On the morning of the accident, he was on the rear of a train that entered the passing track through this switch and saw flagment throw switch to mai, track and saw that it worked all right.

rection master avis stated that he excelles the saitones twise such work and that at about 4.45 p.m. on the day of the agrailment he had inspected this switch and found it in sood condition. The boilt was in the throw rod, head up, and there was a nut on the boilt, but he did not think there was a cotter key in it. He further stated that en the morning of Docomber 6 he saw a through freight take the switch going north and about 11 or 12, noon, saw a southbound freight use the switch and a little later a local used it. He stated that he arrived at the scene of the derailment about in hour and ten minutes after it escurred and found a piece of iron lying in a quarter of the rail and two holes at the switch point. He examined the switch and found the throw