IE ... INVESTIG TION : AN ICID. TO RIVE OCCURRED : THE TEXAL & SIFIC HALLWED, AT HANGKH, TRAMS, JUNE 12, 1919.

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July 21, 1919.

un June 12, 1919, there was a derailment of a passenger train on the Texas & Pacific Ruilroad, at Ranger, Texas, which resulted in the death of 2 passengers and the injury of 73 passengers and 3 employees. After investigation, the Chief of the Eureau of Safety submits the following report:

This accident occurred on the Fort Worth sub-41vision of the fort sorth division, a single track line extending from Fort morth to daird. Texas, a distance of 140 miles, The movement of trains is governed by the tuble and train orders transmitted by telephone: no block signal system is in use. approaching the point of accident from the west, beginning at hanger pusuengor station, the track is straight, and is level for a distance of 350 feet, after which there is an ascending grade, verying from .25 to .8 per cent. for a distance of 1600 From this point to the point of socident, a distance of 1400 feet, there is a descending grade reaching a maximum of 1.25 per cent. The track is laid with 75-pound rails. 30 feet in length, wingle-spixed, with four-hole angle bars, and with from 15 to 16 ties to the rail. In the immediate vicinity of the accident the rails are tis-plated, and there are eleven 7x16 switch ties to the rail. Beginning at a point about 500 feet in advance of and extending for some distunce beyond the point of derailment, the track was akeletonized preparatory to bullasting, but there was no slow order in effect. The

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surface and alignment were good. On the coath side of the main line there is a lead known as the Dorsey lead track, 940 feet in length, the west switch of which is a facing point switch for castbound trains. It as at this switch that the derailment occurres. The switch leading to this lead track is a No. 9 turnout; the switchetand is on the right side of the track going east.

The train involved was eastbound passenger So. 12.

en route from Baird to Port Worth, consisting of engine 415.

four baggues care, four scaches, and three elespers, all of

weeden construction, in charge of Conductor Merguson and En
gineman Bailey. It left Baird at 8.45 p.m., arrived at Ranger,

45 miles east of Baird, at 11.20 p.m., departed at 11.35 p.m.,

and about three minutes later, while running at a speed of

about 18 miles an hour, was devailed at the switch leading to

the Borsey lead track.

when the train came to rest all of the cars were upright and coupled together. The locometive and the first five cars stopped on the sain line, the rear end of the fifth car being approximately 300 feet east of the switch with its rear truck decailed and astride of the south main line rail. The rear end of this car was scraped on the right side by having come in contact with a box car standing on the lead track. The sixth car, coach No. 224, collided nearly head on with this box car. The box car was equipped with a steel underframe, which tore out the right side of coach 284 for its entire length, resulting in its being practically deaclished. The seventh car, coach No. 231, also sustained some damage. The

eighth our, as well as the forward truck of the ninth ear, entered the lead truck, but neither car was desuged. The last two cars remained on the main line. The mange to the track was clight.

The first indication of the derailment was a whosi mark on the flance on the right side of the left main-line rail. 19 feet east of the switch point. There was a corresponding mark on the ties on the right side of the stock rail 33 feet from the switch point, the scralled wheels thus stragdling the right main-line rail and the left side-track rail. These warks gradually diverged to the right, and at a point 33 feet oust of the switch point four flange sarks appeared. They diverged to the right up to the point where the loft wheels of the dermiled truck struck the right rail of the main line, which they followed up to the point where the side track diverged for enough from the main track to make the distance between the tracks greator than the distance between the inside faces of the wheels. From this point the clint main-line rail was pulled southward and the loft side-track rail was culled northward by the truck which had been straddling them.

amouthly from Saird to hanger and that his train ran along amouthly from Saird to hanger and that after going over the assending grade leaving Manger station he shut off steam, and was drifting when he felt the train jerk. He looked out and seeing what was happening applied the air brakes in emergency, but found that the brakes had already been applied. He made an examination of the switch and found the switch points to be

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cocked, no look on the stind, the mandle out of the scaket, and the switch light showing both green and red. He found no indication that anything and been dragging. His locamotive was equipped with an electric headlight, which was burning well, and when he approached the switch no observed that the light was green and nothin- was wrong with the switch points. He had no slow order over the portion of the track where the accident occurred, but had been nowing slowly for the reason that the track was undergoing resonstruction, and also because it was his practice to pass slowly through hanger yard. He thought the speed at the time of the accident was about 18 miles an hour.

front vestibule of the seventh car when the crash case. He started for the amergency cord, but found that the brakes had already been applied. On examining the track some time afterwards he found a piece of a brake beam head weighing lip to 2 pounds on the south side of the free between two seitch ties, but there was no indication in the vicinity that anything had been dragging.

Train Porter Trittenden, who was riding in the head end of the fifth our, stated that his first knowledge of anything wrong was when he felt the rear truck of the car dorail and heard a grash. He then applied the brakes by heans of the conductor's emergency cord.

Jeneral fardmester imrekur stated that he reached the point of accident about 50 minutes thereafter, and examined the switch and switch points and all track conditions. To found

flange tarks east of the frog where the wheels hit the rails, but saw no area on the rails. The switch points and the switch-stand were in good condition. He stated that the normal position of main line switches is for main line mevements, and that the rule requires these switches to be looked. He did not know whether or not the west switch of lorsey lead had a look at the time of the accident, but did know that most main line switches had heretofore been equipped with looks and that all such switches are now so equipped.

econe of accident about four or five minutes after its occurrences and found the switch cocked and the switch handle out of its sequet far enough for the light to show both green and red. There was no look on the switch, and its impression was that the accident occurred either through the malicious pulling of the lever out of the switchstand socket, or, the lever being loose, by the jar or vibration of the train, which had the effect of working the switch points away from the main line rail, particularly as the track was in a skeletonised and unballasted state.

about 20 minutes after the accident occurred. he get underneath—one of the cars and found the switch points cocked, wheel marks on the ties, and the switchstand lever midway between sockets and difficult to throw in either direction. He thought something might have been dragging, which would spread the points, but found acthing to bear this out, and reached the conclusion

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that the accident was caused by the laver maying been out of the socket. The switch points were in good condition and nothing was wrong with the switchstand.

he pulled a cut of care through the west suitah onto the Borsey lead track and found the switched and the switch points in seed condition, the points fitting preparly when switch was not for main line, but there was no look on the switchstand. He added that the cain line witches were not in all instances equipped with looks and that he had not been furnished with a switch key, though he had asked for one. Between the time this switch crow used the switch and the time of the accident, two eastbound freight trains passed without incident, one at about 6.00 p.m., and the other at about 9.45 p.m.

Were not equipped with looks and had not been for some time, though his understanding was that all those switches should have looks. As also stated that neither he nor rome of the ass had any switch key.

acadmanter Folcy stated that the Dorsey lead switch originally had been equipped with a switch leak, but no could not say whether it had one at the time of the accident. There were 38 main line switches in harder yard, and on the day following the accident no removed 3 switchetands on which the lock hasps or stuples had been broken; replaced 5 defective locks

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with serviceable ones, and applied 11 looks on switches where there were none. while it was his duty to see that looks were applied on all sain line switches, his supply was not always sufficient, and, furthermore, the locks were so frequently broken that it was a nuisance to keep constantly putting them on; he also had other duties which required his attention. He also had other duties which required his attention. He also said that all switches had been equipped with looks when installed, but that there had been more or less trouble in this yard with looks being broken or thrown away.

this accident was caused by a split switch, due either to the switch lever working out of the socket, or to its having been left out of the socket, the switch points thus having an opportunity to work open, as a result of the jar or vibration produced by the movement of the train over the unballasted track. Aule 363 of the Texas & Pacific Mailroad's book of rules, which relates to the duties of yardmasters, reads in part as follows:

Main line switches in yards, except when in use, must invariably be looked for the main truck.

Had this switch been equipped with a look at the time of the accident, and had the look been in use, as required by this rule, the accident would not have occurred. The privary responsibility for the accident rests with the Texas a Pacific sailroad for its failure to furnish the supplies necessary for the maintenance of its track in a safe condition. The evidence indicates that all switches were originally equipped with locks, but as many of the employees did not have keys the looks could not be universally used and were often damaged or thrown away.

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The existence of a condition of this kind could not full to result in an accident of this character.

The attitude of hondmaster Foley does not indicate a commendable spirit. In taking the position that it was a nuisance to keep renewing looks on the various switches, he did not show a proper appreciation of the responsibility imposed upon him. It was his duty to see that looks were provided for these cain line switches, and he should have performed it.

H. F.