IN RE INVESTIGATION OF AM ACCIDENT WHICH OCCUPRED ON THE KAMSAS CITY, MEXICO AND ORIENT RAIL-ROAD NEAR PARKT, TEXAS, ON AUGUST 24, 1920.

September 24, 1920.

On August 24, 1920, there was a derailment of a passenger train on the kansas City, Mexico & Orient Railroad near Paret, Tex., which resulted in the death of 2 employees. After investigation of this accident the Chief of the Bureau of Safety reports as follows.

The Second District of the Texas Division, on which this accident occurred, is a single-track like extending from Hamlin, Texas, to San Ingelo, Texas, a distance of ill.56 miles. Trains are operated by time-table and train orders, no block-signal system being in use. The accident occurred at the cast passing-trock switch at Paret, nearly 1,300 feet east of the station; this bascing track is on the south side of the main track. Approaching the point of accident from the east the track is tangent for a dictance of 5,146 feet, followed by a 2-degree curve to the right 570 feet in length, then a tangent 1,139 feet in length to the joint of accident. The grade is .125 per cent ascending for westbound trains. The track is laid with 70-poind rail, 33 feet in length, with about 20 pine ties to the rail-length, no tie-places being used. The ballast consists of natural scil which at the point of accident was sondy. The surface and alignment were maitained in fair condition. The vector at the time of the accident was clear.

Westbound presenger train No. 3, on route from Alous, Ohla., to Son Angelo, Tex, consisted of engine 502, I combination mail and baying car, I beggine car, 3 coeches, and I business car, in the order named, and was in charge of Conductor Robertson and Engineer Vatts. This train left Hamlin, the initial station on this division and the last open telegraph office cast of the point of accident, at 5.20 p m., 30 minutes late, made several station steps on route, and at about 7.10 p.m. was derailed at the cast passing-track switch at Paret while treveling at a spoud estimated to have been about 20 cr 25 miles an hour.

The origine came to rest on its left side, between the main track and the passing track, with its head end about 215 feet west of the match points. The tender aid the first two cars in the train were derailed, but remained in an upright position along the line of the passing track and were only slightly damaged. The employees killed were the enginemen and fireman.

Conductor Pobertson, who was riding in the fourth car, stated that his first knowledge of anything wrong was when he felt that the train was derailed, followed by a sudden application of the air brakes and another shock. About 20 minutes afterwards he made an examination of the switch and found the switch points lined for the passing track, the switch target showing red to the east, and the lever out of the socket and lacking about 1 inch of being in its proper position for the opened switch, he operated the lever and without difficulty was able to move it the additional distance necessary to place it in the socket. He stated he found the switch lock on the ground nearby. The switch points and connecting rods appeared to be in good condition.

Brakeman Nettleton, who was riding in the rear platform of the fifth car, slid he felt an emergency application of the air orckes, followed by a jor. He saw the switch target immediately after the occident slowing red to the east, but did not make an examination of the track or switch.

Postal Clerk Lynn, who was standing in the doorway of the first ear, stated that his first intimation of anything wrong was when he heard a noise which sounded to him as if iron was striking iron this was at about the time the rear of the ergine passed the switch. On looking shead he noticed that the switch stand was quivering and as his car passed the switch stand he realized that the train was derailed. He aid not notice the position of the switch target. He thought there was an emerginey implication of the brakes before the derailment occurred. Afterwards he saw the switch lock on the ground and noticed that the staple on the stand was broken. The first thing noticed by Express messenger Ellioti, who was in the second ear, was an emergency application of the air brakes.

Superintendent Cleary, who was riding in the business car on the rear of the train, said he felt an unusual jar, followed immediately by two additional shocks. He verified the conductor's statement about the switch lever being out of the socket, the target showing rid to the cast, and the switch points being lined for the passing track, saying that he examined the switch immediately after the accident. He also said the lock was broken and would not pherate. He thought the accident was due to a cocked switch, this was also the opinion of the other members of the train crew.

Two employees of an oil mill located near the scene of the accident, who were eye-witnesses, stated that the tender seemed to swing back and forth, following which the engine lurched to the right and then to the left, turning over on its left side. It was their opinion that the engine was following the line of the main track when it turned over.

The switch at which this accident occurred is a No. 10 turnout, the stand being of the Elliott high-circle type, located in the left side of the track for westbound trains. Yardmaster Richardson stated that the last time the switch was used prior to the accident was on the forenoon of the preceding day, at that time he personally closed and locked the switch after it had been used. He stated that he jerked the lock and was positive that it was securely locked and in proper torking condition.

Section Foremen Webster, who passed the switch on the afternoon before the occident, stated that the switch points at that time seemed to fit properly, but that no did not eximine the lock. After the accident he found that the left main-track roll and the light passing-track roll had oven pulled expether for a short distance, beginning at the frog. The lock in question had been placed on the switch stand on July 29, 1920, by Section Foreman Ledoctter, who stated that he had not made an examination of the lock or switch since that date. Two freight trains passed Paret several nours before the accident occurred, and at that time the crews of these trains did not notice anything grong with the switch.

Careful examination of the engine and other derailed equipment failed to disclose anything which could have contributed to the derailment. The invistigation disclosed that the sefety chains had been pulled loose from the nangers on the forward tender truck, while the hangers on the rear truck were bent toward the left.

The swinging of the tender noticed by the eyewitnesses, and their statement that the engine seemed to be
on the main track then it turned over, coupled with the
manner in which the Graw bar between the engine and tender was
twisted, the tenning loose of the safety chain between the
engine and tender, and the bending of the safety chain hangers
to the left, indicates that the engine passed over the switch
and that the tender was the first partion of the train to be
derailed, the tracks being slued to the left. All of these
facts, taken in a unsection with the vibration of the switch
stand naticed by the pastal elerk, the braker lock on the
ground, and the position of the switch lever and switch
paints after the coldist, indicate that the switch points
opened as the engine was passing over them, due to the fact
that the switch was not properly closed and locked

This accident was caused by a chaked or partly opened switch.

The switch implies a docked on the preceding day at which time it was closed and looked by a yardmaster and appeared to be in good condition in every respect, while the crevs of two trains which passed a few hours provious to the

accident noticed nothing wrong. The reason for its not being properly closed and locked at the time of this accident was not ascertained.

All of the employees involved in this socident were men of experience, with clear records. The train crew had been an duty 9 hours and 40 minutes after an off duty period of 15 hours and 5 minutes, while the engine error had been on duty 2 hours and 30 minutes after an off duty period of 6 hours, previous to which they are been on Juty 5 hours and 55 minutes after having been off duty more than 28 hours.