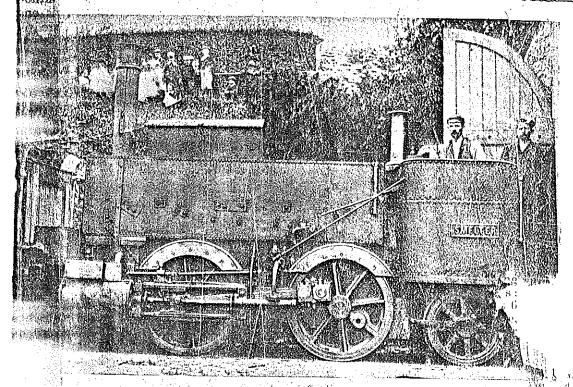
A. L. M. Weller (Devoran).

LOCOMOTIVE MAGAZÎNÊ

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FOUR-COUPLED TANK ENGINE, REDRUTH & CHACEWATER RY.

RUTH & CHACEWATER RY.

and particularly the western ishes the railway enthusiast with sting reminiscences, and there may it daily operation on the outskirts of which Redruth, where Wm. Murdock Ist steam locomotive in this country in page 151) one of the oldest railways the Redruth and Chacewater Ry. the first to be built in Cornwall, has miles of single line, and runs Lyofan Harbour Quay, Devoran Creek. ish of Feock, to the eastern end of the kedruth, and was constructed towards of the first quarter of the last century Parliament, 17/6/1824 (5 Geo. IV... to take coal, &c., to the mines in hood of Redruth, and it was opene Touch, Tops

The permanent way is practically in original state, light cast iron rails in about 1 lengths, supported by chairs on stone slee and laid to a gauge of 4-ft., being the only way of this gauge in the United Kingdom! line falls from a height of nearly 700-ft at Brae, Redruth, to about 10-ft. above sea led Devoran by an almost continuous descent crosses the G. W. R. Falmouth branch Perranwell Viaduct.

Never having been used for passengers there are of course no stations, but places are provided at Carharrock and with water tanks. No signals are used, no they wanted, inasmuch as only one locom in steam at a time; in fact very often the steam at a time; in fact very often the steam at a time; two trips are necessare.

to the decline of t strict. The line ha THE LUCOMOTIVE MA

having been appointed in 1879.

was worked by horse power until the another Act of Parliament having been another May 9, 1853, cap. 6.

two first locomotives were built in 1854

e two first locomotives were built in 1854 essrs. Neilson & Co., and named "Miner" Smelter," the latter of which forms the state of our first illustration. They were stally both six-wheeled engines with four-led leading and driving wheels 3-ft. 6-in. Ster and a pair of trailing wheels 2-ft. 6-in. Ster, with outside cylinders 10-in. diameter

and has bright brass splashers or the wheels. A peculiarity worth noticin handrail on the chimney.

and converted into a 6-coupled engine 6-in. diameter wheels, the other dibeing unaltered. It bears an ov plate on the bunker, with sunk I follows: "Redruth & Chasewater Raili pany, constructed at Devoran Work spelling Chacewater with an "s," althonow always spelt with a "c." This en a domed firebox and the frames are p with the axle guards rivetted on.



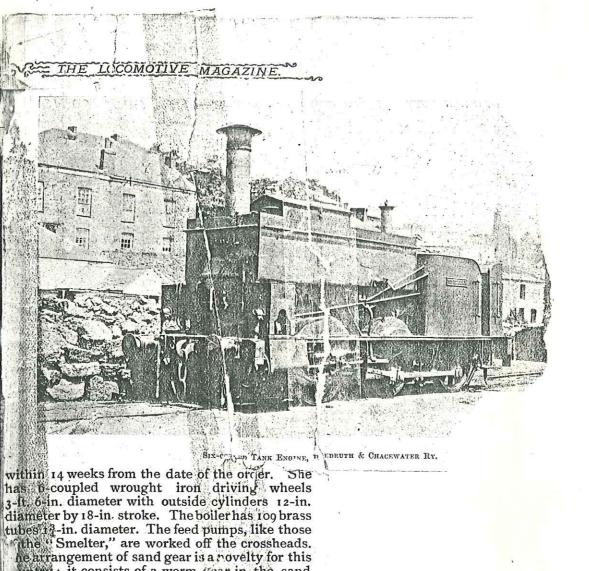
Transport Charles Tongs Deputy & Charlester B

wards bored out to 11-in.) by 18-in. stroke;
10-ft. long by 3-ft. diameter, with 99 tubes
liameter, firebox 3-ft. 6-in. long outside.
10-ft. long by 3-ft. diameter, with 99 tubes
10-ft. long outside.
10-f

is still in its original condition at at Devoran Works, as spare engine, nning order. It bears on one of the the builders' brass plate: "Neilson and Park Works, Glasgow, 1854," in raised red ground. Although the patches on aks give proof of long service, the god of the working parts further as as thence of the workma

At the time of writing the "Mine, rebuilt for the second time, and of illustration shows the interior of the shop at Devoran with this work in promay be interesting to note that the id in 1869, is still in such good order that given a further term of service, but a of 12-in. diameter cylinders is being s for the smaller sized ones it had previous

A third engine named "Spitfire," our third picture) was added to the roll in 1859. This engine was also built be Neilson, who inform us that the spitcher was to



within 14 weeks from the date of the order. She has 6-coupled wrought iron driving wheels 3-ft 6-in. diameter with outside cylinders 12-in. diameter by 18-in. stroke. The boiler has 100 brass tubes 13-in. diameter. The feed pumps, like those the "Smelter," are worked off the crossheads. he arrangement of sand gear is a rovelty for this unity; it consists of a worm gear in the sand 3k, revolved from the foot plate by turning a shaft. The "Spitfire" is painted dark green.

All the engines have bright brass chimney caps, and safety valve covers, and are kept very clean.

The Devoran Works are not very extensive, the erecting shop having a staff of five men and a boy under the management of Mr. Andrewartha, and the rebuilding and repair of the locomotives is undertaken here. There is also a shop for wagon building and repairs.

The superintendent of the railway and of the harbour at Devoran is Mr. J. F. Tyacke, to whom we are indebted for much of the foregoing, as well as for facilities for photographing the entities.