## THE HURON SIGNAL, FRIDAY, AUGUST 4 1882

## CHESHIRE SALT MINES. load in the shaft, and have good

The System of Working Them.

The present state of the salt mines in Cheshire, owing to the slips and sinkings constantly going on, and which provides ground now covered with houses and buildings, gives to the district a more than ordinary interest. Little more the buckets which are round do not than a year ago, near to Northwich, there touch it, and when the shafts are circu was a subsidence of a most extraordinary |ar but without metal tubing the wire character, so that the River Weaver, and is let into a groove cut in the marlstone what is known as the Top Brook, were and rock salt. But where the shafts are lowered fully a foot over 160 acres in small and cased with metal cylinders, about four hours, whilst there was an which have no such groove, then a sig enormous sinking like a vast shaft, into nal wire is not used, as the buckets which it was computed that not less than would catch it. It has, however, been 600,000 tons of water rushed. The shaft found by experience that a signal wire or hole, formed by the subsidence was may be dispensed with, seeing that the fully 200 feet in diameter, and sloped rock salt together with the metal tubbing gradually down, and in addition to the are good conveyers of sound, so much so

water it absorbed about 40,000 tons of that the men when shouted to from the Not so long since a church, a surface to the bottom, nearly 300 yards. chapel, and some other kuildings were can understand what is said. The condemned as unsafe, and as the brine deepest salt mine now being worked is and salt are drawn away the subsidence stated to be the Duncrue, in the north will go on increasing in a corresponding of Ireland, which is 295 yards from the ratio. The prospects of the Cheshire surface, the thickness of the rock salt salt miner are, therefore, by no means being 40 ft. The pillars are 10 by 12 cheering for the mines at almost any yards at the top widening to 14 to 12 at time are hable to be inundated with the bottom. As to pressure, it has been water, and on the occasion to which we found that at 110 yards from the surface have referred to the water rushing into with a thickness of 22 yards of rock salt an old mine, forced the separating bar- left above the pillars, a width of 25 rier, between it and one that was being yards has been found to stand secure. worked; the men, however escaped, but the foreman, who afterwards went dewn equal to 1,000 square yards for each pilthe shaft to ascertain the amount of lar left in each area or 35 by 25 yards, damage, found the water up to his equal to 1,225 square yards, being in breast when he got into one of the chamthe proportion of one pillar to every bers at the bottom. In modern salt 121 excavated. In the case of crushing, mines there are generally two shafts, it generally begins by cracks or breaks from 12 to 16 yards apart, with a pump- at the corners of the pillars, and then ing shaft for clearing the surface water, cracks come on in the roof; but in this which only goes down as far as the latstate the rock salt generally adheres toter descends. The surface work is cov- gether, but the roof "creeps" nearer to ered over as a protection from rain and the floor and the parts of the shafts

the point where the surface water is diameter. likely to penetrate. The cast-iron tub- The temperature of the rock salt bing is similar to that used for coal mines is very moderate, and must be mines, but instead of being cast in seg- pleasant at all times to work in, so that ments it is now cast in complete cylin- eight hours' labor daily cannot be conders. The beds of salt varies from 15 sidered a hard task. In Cheshire the to 18ft. in Cheshire, and the mode of temperature, at depths between 110 and working is by driving out in the upper 160 yards, varies from 48° to 55° Fahr. part between 5 and 6ft high, and this with the dry bulb thermometer, and beis called the roofing, which is followed twee 44° and 53° with the wet bulb. up by what is termed the benching, so the hydrometrical difference between the that pillars of the rock salt are left where wet and dry, bulbs varying between 1° they are considered necessary. In driv- and 6° but variations have been found ing the roof some holing and cutting is with both bulds, depending upon the done with the pick; but this is not much, part of the mine in which the observaas powder is usually resorted to, and tion was taken, the number of miners' then the roof is made into shape with lights, shots, etc. As to the actual the pick. The benching varies from 9ft thickness of the rock salt, in some places 3 in. to 12 ft 3 in., and is blown off by a in Cheshire it is said to be nearly 30 succession of shots fired in a slanting di- yards thick in the top bed and the same rection from top to bottom. In one of in the bottom one; but at Marston and the largest mines the number of men Wincham it is about 30 yards, whilst just as true. A God of purity will not

which when the steam is not up h-Air Society, Childre ther associations in cities for ne of these poor little cree tures who had never been out of the rowded alleys and courts where they vere born, at their first sight of the

roods and farms. "Oh, look !" one cried, "there's apples on trees!"

She had never seen them except in trays at provision shops. Another child stared delightedly at

thegrasshoppers jumping through the hot meadows. "Are they rabbits ?" she meadows. Another followed the farmer as

went out for vegetables for dinner, and ane back excited to her companions. "He dug the pertsters out of the

ground and didn't pay a cent!" Many of the children make warm friends among their kind entertainers and are invited back summer after summer to the same houses. One little deformed girl, ill with lung disease, was taken three years ago to a breezy farm house on the hills of Clinton County, Pennsylvania. She was only invited for a week, but her gentle ways, and pale, appealing face, touched the hearts of the good farmer and his wife, who kept her during most of the summer, trying the effects of the country-good nursing and above all, wholesome food, upon her she began too mend.

The next May, with the first warm day, the farmer drove the spring wagon into the miserable court where she lived for "little Nelly." He saw her mother, a widew, who supported three children by slop-work. The friendship grew between the families, who were honest, God-fearing people. This summer the snow, and the shafts are tubbed below which are in rock salt become smaller in widow is in a tenant house on the farm

and is well provided with work which pays her well. She is comfortably settled for life, and little Nelly is growing stout and strong. Hundreds of such incidents could be told to show how widespread are the good effects of this most beautiful of all charities.

## Pure Speech.

If there is anything which makes person repulsive and loathsome to those of pure, clean mind, it is the indulgence in coarse, low speech. It is a fault which would meet with no quarter, because it is a heinous sin in God's sight. "Blessed are the pure in heart for they shall see God," and the reverse of this i employed is about 90, and amongst that number about 1 cwt. of powder is used yards in a juarter of a mile, and at the habitually indulge in such vileness. Par-

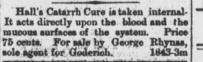
therful thing, yet so natural, as BOOTS AND SHOES a Phosphatine as the case may d; it will not fail to make you ap enthusiastic friend. Why do we sa thus? Because Phosphatine supplies

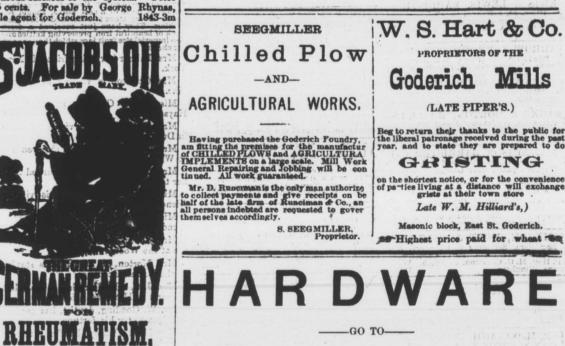
want, the wery properties the system is lack-ing and yearning for. It is not a medi-cine, but nutriment instantly converted into blood, bone and fissue. It is also delicious to the taste. Try it. The re-sult is as certain as that cause and effect go hand in hand. All druggists. Low-DEN & Co., Sole agents for the Domi-nion, 55 Front St. East, Toronto.

If Catarrh has destroyed your sense of smell and hearing, Hall's Catarrh Cure

will cure you. 75 cents per bottle. All duggists sell it. For sale by George Rhynas, sole agent, Goderich. 1843-3m An honest medicine is the noblest

An honest medicine is the noblest work of man, and we can assure our readers that Dr. Fowler's Extract of Wild Strawberry is not only reliable, but is almost infallible to cure Cholera Mor-bus, Dysentery, Canker of the Stomach and bowers, and the various Summer Complaints, whose attacks are often sud-den and fatal. 2.





Crabh's Block, Cor. Ea

Neuralgia, Sciatica, Lumbago, Backache, Soreness of the Chest, **EMCKEENZZEEE** Gout, Quinzy, Sore Throat, Swell-ings and Sprains, Burns and Scalds, General Bodily

Pains, Tooth, Ear and Headache, Frosted Farmers' Hardware Feet and Ears, and all other Pains and Aches.



Late W. M. Hilliard's,)

North Street, Goderich.

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daily. In making shot holes the drills most southerly pits the top bed is only used are some 8ft in length, pointed at 16 yards in thickness. But the total each end, and the diameter being larger thickness of all the beds and lumps is esin the middle no hammer is required. timated at about 180 ft. At the present profane one. He should be made to see Whilst uncharging the shot the powder- time work is going on much as usual; ed salt made in drilling the hole is put but no one can say how long this will be next to the powder, and then coarser the case, for the subsidence going on not grained salt upon that; the charge is only threatens the immediate locality of cuse, though it is hard making headway then fired by a straw filled with fine the mines, but the town of Northwich against such an example. A good mopowder lighted from a candle. Unlike as well, whilst the greatest anxiety is ther will try, however, and never give what is usually the case in coal and other felt by the inhabitants both in the town over trying while life lasts. mines, the men only retire a few yards and district, seeing that the locality is whilst the shot goes off, for the salt does completely honeycombed by abandoned not go far away when it is brought down. salt mines, whilst the subsidence has Extensive pillars have to be left, and been such that houses and buildings and keynote to the moral tone of the houseand that on an extensive scale. chimney stacks that once were connect-

At the principal mine in Cheshire the ed with the salt works have disappeared, pillars are in an oval form, some of them or merely show what were once their lofty summits. 640 yards long by 280 broad, extending

Wistar's Balsam of Wild Cherry.

At a fire at 103 Washington street.

\$100 Beward

over about 40 acres. The height of The Muskoka election perplexity is each pillar is about 5 yards, and of various breadths and lengths, and are set before the Judge of this county for three speech. Do not let neighborhood scanat various distances apart. The thick- days past for settlement. The recount ness of strata they have to support from has resulted in a tie between the candiness of strata they have to support from the base to the surface is more than 100 yards. At another mine where the height of the working is about 6 yards, and where the rock salt roof is not quite firm the pillars are 10 yards square and firm the pillars are 10 yards square and 25 yards apart, but there are some 12 yards square and only 18 yards apart, so clearly points out, however, that the

as to more perfectly render the roof safe. ballots must be printed. Iron tramways are used underground for the conveyance of the rock salt, but the rails are often fixed to pegs let into drill holes in the rock salt, so that in such cases sleepers are not used. The ence of over forty years; and when reworkings are, as a rule, free from car-bonic acid and at only one place has fire-damp heen met with suid that on only damp been met with, and that on only bronchitis, induced, whooping cougn, hearseness, pains or soreness in the one or two occasions. The labor is by chest or side, bleeding at the lungs, no means exhausting, and as the ventil-ation is always good and the air pure, to be start indeed in this the case such an extent, indeed, is this the case ihe outside wrapper the signature of "I. butcher's meat, it is said, keeps quite good underground in the warmest weath-er for eight or nine weeks. The bottom Butts," and the printed name of the proprietors, "Seth W. Fowle & Sons, Boston." All others are base imitaer for eight or nine weeks. The bottom er for eight or nine weeks. The bottom parts of the shaft are slightly bell-mouth-ed, so as to allow of the bucket ascend-bottle. Sold by all dealers generally. ing without catching. The ventilation. notwithstanding the smallness of the

shafts and the want of ventilating powers and partitions for sending the air round the workings, is usually good, excepting it may be for about two months in the hottest part of the summer, when the air above. occasionally becomes stagnant, and this may continue until the cold weather sets

may continue until the cold weather sets in about September and October. The winding is done by ordinary steamen-gines, some of them being provided with indicators to show the position of the Goderich.

ents cannot be too watchful or guarded in this respect. A child should be checked as quick for a low word as for a its sinful, degrading tendency, no matter from whose lips he has caught it. A father's example even should be no ex-

It is most emphatically true that "as the mother so is the daughter," and so is the son to a great extent. She gives the hold. Never let a word or a thought cross your lips that could sully the white page of a child's heart. There should be no middle ground here; the parleying with evil. A mother who loves her

child as she does her life may blacken its not yet set at rest, although it has been soul to all eternity by her thoughtless dal be rehersed in your child's hearingno, not if you offend the greatest gossi-

> "Never think the city has the whole monopoly of moral evil," said a lady to me very sadly about a bright young nephew. "The boy was ruined by the talk of the men in his father's hay field.'

If iniquity comes in like a flood, thus BISCUITS AND is it doubly needful to set up a standard against it. It is not hard; only make the fountain pure. "Abhor that which is evil, and cleave to that which is good. Never let a low jest in your presence to pass unrebuked, and never a word from your own lips that is not pure and sweet However bad the world may look to the children when they go out in it, let there be one bright, fair memory of perfect purity to which they can always revert. Let "my mother" be the synonym of all that was excellent and of good report, in standing refutation of the slur that there is no true goodness in the world.'

Through the present month of july the Stomach and Bowels are very liable to become deranged. The proper pre-ventative is Dr. Carson's Stomach and

