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So easy to get quick relief and prevent an attack in the future. Avoid bromides and dope. They relieve quickly but affect the heart and are very dangerous. They are depressing and only give temporary relief, the cause of the headache still remains within. The sane and harmless way. First correct the cause, sweeten the sour and acid stomach, relieve the intestines of the decayed and poisonous food matter, gently stimulate the liver, start the bike flowing and the bowels pass off the waste matter which causes your headache. Try Carter's Little

Liver Pills. Druggists 25c red pkgs.

# PROVES VALUE AS SIGNAL

Department of Mines Indebted Vipond Mines for Working Test That Showed Warning Could be Given to 95 per cent. of Workingmen.

That warning can be given to 95 per cent. of the workers underground at mine through use of a stench gas in the air lines was proven by a test carried out at the Vipond under working conditions. The Department of Mines has publicly thanked the Vipond and the manager of the mine R. Dye, for shaft house where, by turning a valve, this test and the way it was carried

# STENCH TEST AT VIPOND

### CONTRACTOR OF THE PROPERTY OF BOWLING

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RED AND GREEN Slate Surfaced Roofing in Strip Shingles and Rolls. Asphalt Roofing and Sheathings. Spruce Building Paper

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Head Office and Yard TIMMINS, ONT. Phone 117

Yard SCHUMACHER Phone 725

### out. In the annual report of the min ing accidents in Ontario in 1929, issued by the Department of Mines for STATION NOW AT TIMMINS Ontario, Bulletin 71, the following report of the test is made:-Stench Test at Vipond Consolidated

Mines, Limited

mercaptan, into the air lines, as a

signal to underground workmen to va-

cate the mine, was tried under work-

ing conditions at the Vipond mine,

Timmins, and the results obtained de-

monstrate the effectiveness of this

The apparatus used for the introduc-

tion of the stench is illustrated by the

accompanying sketch. It will be noted

that the apparatus is made from stan-

dard pipe fittings. The modification of

the alve for breaking the stench bomb

can be accomplished at small cost and

with few tools. Owing to the low boil-

ing point of the ethyl mercaptan, it is

essential that the pipe nipples used be

of sufficient length to dissipate the

heat from the air lines. The length

shown in the sketch proved adequate

with the apparatus installed forty feet

from the compressors and in the mine

side of the receivers, which point is

essential. There are four of these in-

jectors installed on two air mains and

housed in a small box midway between

About two weeks before the test was

made, a notice was posted to the ef-

fect that a trial of the warning signal

would be made and asking the men to

become familiar with the smell. They

were also asked to record the time of

detection of the stench and then pro-

ceed to the shaft. A small quantity

of ethyl mercaptan was placed in the

At the time of the test there were

approximately sixty men underground

engaged at their normal work. The

ground workings and ventilation is by

natural air currents, except for the

compressed air, which amounts to 1,800

Four bombs were used, each contain-

ing 12 c.c. of ethyl mercaptan. They

were broken at intervals of twenty se-

conds, one in each of the four injectors

as illustrated. Four minutes after the

first bomb was broken a flash for the

cage was received from the 866-foot

level. orFty-seven minutes after the

introuction of the stench all the men

were out of the mine Two crews of

scalers failed to get the warning, but

these men were far removed from oper-

ating drills. One of these men was

warned by other workmen and one

Two hours after the stench was in-

troduced the next shift went to work

and the atmosphere underground was

The experience demonstrated that

The quantity of ethyl mercaptan in-

jected into the air lines was roughly

twenty c.c. for every 1,000 cubic feet of free air compressed per minute. It

would perhaps be wise to use more, something like 30 c.c. would be a better

quantity. It is essential that the introduction of the stench be spread over at

least one minute of time. This insures

a good distribution of stench in the

air passing through the line. The four

quantity in the line over a given period.

Time of breaking 1st bomb 1.47 p.m.

Time of breaking 2nd bomb 1.47.20 p.m.

Time of breaking 3rd bomb 1.47.40 p.m.

Time of breaking 4th bomb 1.48 p.m.

Record of men coming to surface:-

Working place, 866 level; time sur-

200 ft. level; time surface reached,

1000 ft. level; 2.01 p.m.; muckers at

753 ft. level; 2.03 p.m.; scalers in 709

500 ft. level; 2.07 p.m.; drift; got

866 ft. level; 2.05 p.m.; machine men

600 ft. level; 2.09 p.m.,; sub-level;

400 ft. level; 213 p.m.; men from 514

400 ft. level; 2.14 p.m.; 426 stope;

753 ft. level; 2.30 p.m.; 707-B stope; machine running, but odor not strong.

Vipond side muckers warned Vipond side scalers, who reached the surface at 2.34 p.m. Scalers in 604 stope failed to get a warning of any kind. At the old Vipond shaft collar the warning came through a leak in the air line at

1.55 p.m. The natural air currents brought the warning to this upcast

The Department of Mines is indebt-

ed to the Vipond mine, and especially manager Robert E. Dye, for making this test under working conditions. It

has proved that an adequate warning can be given underground directly to

95 per cent. of the workmen. It also gives a fair estimate of the quantity of ethyl mercaptan necessary under

metal mine conditions, as based on

Huntingdon Gleaner:-Stealing a

forest was the charge against the

whole village of Zude, near Belgrade, Jugoslavia. The sixty-eight men in

the village appeared and their defence

was that otherwise they would have

frozen, since great ecoonomic distress prevailed in the village. The whole

village was found guilty and the men

were sentenced to brief terms of im-

prisonment and fines. Their offence is unlikely to be repeated, since there

is not a tree left for miles.

stench at 1.57 p.m.; stayed to blast.

machine men and scalers.

machine running; strong odor.

stope and 402-B drift.

shaft at 2.03 p.m.

compressed air only.

1.56 p.m.; men drilling in 200-H stope;

face reached, 1.53 p.m.; remarks, men

at pump station; no drill working.

station; no drills.

tope; no drills.

in 802 raise.

terest on the experiment:-

The following are some notes of in-

inexpensive injectors as used in this test insure the placing of the required

the stench was effective and entirely

quite clear.

failed to receive any kind of warning.

cubic feet of free air per minute.

mine has about nine miles of under-

the hoist-house and the shift-house.

warning signal.

The introduction of the stench, ethyl

Description of Mine Rescue Station and Main Items in Its Equippment. Rescue Teams Trained to Use Equippment and Handle Emergencies.

In the Ontario Bulletin No. 71, "Report on the Mining Accidents in Ontario in 1929," there is the following reference to the new Mine Rescue Sta-

tion at Timmins:-Pending legislation authorizing the erection of three central mine rescue stations in the Porcupine, Kirkland Lake and Sudbury district, an arrangement was effected by which a mine rescue station, in advance of such au-

### Could not Eat or Sleep after Husband's Death

Her husband's death left her very run down in health, unable to eat or sleep much. Now she is brighter in spirits and eats and sleeps well. What caused the difference? Let her answer in her own

words :-"I think Kruschen Salts are a splendid tonic. After my husband's death in December last I became very run down in health. Had terrible fits of depression and was unable to eat or sleep much. I was also troubled with rheumatism. I decided to take Kruschen Salts and have now taken the little daily dose for nearly two months, during which time my health has greatly improved. The rheumatism has completely left me. I am much brighter in spirits and both eat and

sleep well." When life begins to "get you down," when you begin to feel the results of modern artificial conditions-errors of diet, worry, overwork, lack of exercisethen you should turn to Kruschen Salts. They possess a wonderful power of giving new life and vitality to the countless millions of cells of which the human body is composed. The way to keep smiling is to take Kruschen Salts every morning-just a pinch in your first morning cup of coffee or tea.

## at our expense. We have distributed a great many special "GIANT" packages which make it easy for you to prove our claim for yourself.

Ask your druggist for the new "GIANT " 75c. This consists of our regular 75c. bottle together with a separate trial bottle-sufficient for about one week. Open the trial bottle first, put it to the test, and then, if not entirely convinced that Kruschen does everything we claim it to do, the regular bottle is still as good as new. Take it back. Your druggist is authorised to return your 75c. immediately and without question.
You have tried Kruschen free, at our expense.
What could be fairer? Manufactured by
E. Griffiths Hughes, Ltd., Manchester, Eng.
(Estab. 1756). Importers: McGillivray Bros.

thority, was established in Timmins | RECORDING SOME "HOWLERS" late in 1929 to afford a degree of protection until the whole scheme might become effective.

The arrangement provides that the station be financed through the Workmen's Compensation Board of Ontario out of assessments levied on the mines while the equipment of the station, the selection of the personnel in charge it, and all matters pertaining to the operation and maintenance of the station are under the control of the Chief Inspector of Mines.

This, in the main, follows the lines laid down in the proposed legislation covering the entire three stations which are to be established in the province.

The Timmins Station is housed in a tile building, 15 feet by 40 feet, erected as a lean-to to the municipal fire hall, and provides two rooms for storage of equipment and training purposes. The main room (15 feet by 28 feet) is used as a storage and lecture room and, in addition, contains the heating plant. While the second room (15 feet by 12 feet) is used as a "smoke room" which training may be given in irrefrom the storage room by a gas-tight thatpartition containing a long observation window through which the supervisor may observe at all times the action of the crew undergoing training in the smoke room

In the main the rescue equippment carried at the station consists of: 12 Sets of McCaa, 2-hour type, selfcontained oxygen breathing apparatus.

12 All Service gas masks. 24-M.S.A. Self Rescures.

2-M.S.A. carbon monoxice detec-

detector and air sampling accessories. 2-Wolf Flame safety lamps. 12-Model "F" Edison electric cap

In case of an emergency there are a few years." sufficient supplies to operate the apparatus until additional supplis can be

obtained by express. It is proposed to commence training of mine crews in mine rescue, first aid and mine recovery operations as soon as a standard course of training can be decided on and drawn up.

At the time of writing arrangements have been effected through the courtesy of the United States Bureau of Mines for a team composed of the inspectors of the Department of Mines. the supervisor of the Timmins Station Porcupine Mines to take the U.S. Bureau of Mines training course at the Pittsburgh Station of the Bureau.

ing of mine teams commenced.

PERPETRATED BY POLICEMEN

It has been a common practice to print "howlers" made by students in writing examinations. At various times The Advance has given humorous samples of these "howlers." It must be admitted that the unconscious humour in some of these samples is good. But here is a new set, now going the rounds of the press, these "howlers" being by policemen and not by pupils of any school or college. Director of Public Safety Schofield, of Philadephia, Pennsylvania, recently gave a mental test of some twenty questions to 150 policemen in his department.

No matter how good the police may be at catching others in the wrong, some of them were certainly "caught" by the questions submitted to them by Director of Public Safety Schofield.

"I won't make all the questions public," said the director, who is also a teacher in the law school of Temple University. "I'm not going to poke fun at the police department."

In jetting down their answers some spirable atmosphere and is separated of the policemen were of the opinion

Diabetes is a vegetable.

Ford invented the incandescent light. The interest at 6 per cent. per annum on \$1,000 for six months depends on the bank.

Algebra and zebra are the first and last letters of the Greek alphabet. Bodin was a bricklayer.

Napoleon is three kinds of ice-cream. Shakespeare wrote "The Village Blacksmith.

It is impossible to figure the area of 1-Pyrotannic acid carbon monoxide a room 50 by 60 feet without knowing the height.

The difference between the emancipation proclamation and the Mason

and Dixon line is "just a difference of

Hearsay is the name of a chocolate manufacturer.

"Why do we celebrate the fourth of July?" was one of the questions, and one policeman, seemingly fed up on festivities, answered: "For no reason

Huntingdon Gleaner:-A Sarnia motorist, in securing his license for the current year, discovered that the letters on his markers would be B.C. and a representative of the McIntyre Immediately he requested a change and that, as a favour he be given a license having some other letters. "You see," he explained, "I drive a On the completion of the course a somewhat antiquated automobile, and schedule for training Ontario miners if I went around with a license like will be drawn up and the actual train- B.C. 54 people might think I was displaying the age of my car."

pains, neuritis, vanish like magic with "Fruit-a-tives". Constipation, indi-gestion end overnight. Nerves quiet. Get "Fruit-a-tives" from druggist today. neuritis, vanish like magic



Amazing ... How You Can

### Remove Old Color -Even a Black

FADED, spotted, stained or streaked dresses, stockings, curtains, table and bed linens . . . even rugs . . . can be made good as new by taking out color and blemishes with WHITE RIT-marvelous color

remover. WHITE RIT removes color from every fiber of all materials even a black-harmless as boiling watersimple as boiling clothes-materials come out just as they came originally from the weaving looms. Then you can tint or re-dye them perfectly . . .

beautifully, with INSTANT RIT. WHITE RIT also removes spots and stains from white goods, even ink, fruit, perspiration, rust, etc., or the "yellowed" or "grayed" appear-ance due to age or poor laundering. Nothing else acts exactly like

WHITE RIT. Keep WHITE RIT always in the house for its many uses. Your druggist or department store has it at 15c per package.

New INSTANT RIT Colors

Always use New INSTANT RIT to tint or re-dye fabrics after removing colors with WHITE RIT. These two products are kindred in formula; therefore, we absolutely guarantee results when INSTANT RIT is used after removing old colors.

# Harmless As Boiling Water

### SPEED -AND POWER TORRENT OF

= 72 MILES AN HOUR · 65 HORSE EPOWER · 48 IN SECOND GEAR = =RICH BROADCLOTH UPHOLSTERY= EINTERNAL 4-WHEEL BRAKES . = HYDRAULIC SHOCK ABSORBERS -=

TONE feel the call of Spring and the open highway more strongly than those who know the thrill of swift, flashing action behind the mighty engine of the new Willys Six.

The Willys Six will crawl along at 3 miles an hour in high gear-will sweep to 72 with perfect ease -will travel 48 in second. Yet even at its top speed the Willys Six invites repose. Vibration has been minimized by rubber insulating the 65 horsepower engine. New hydraulic shock absorbers

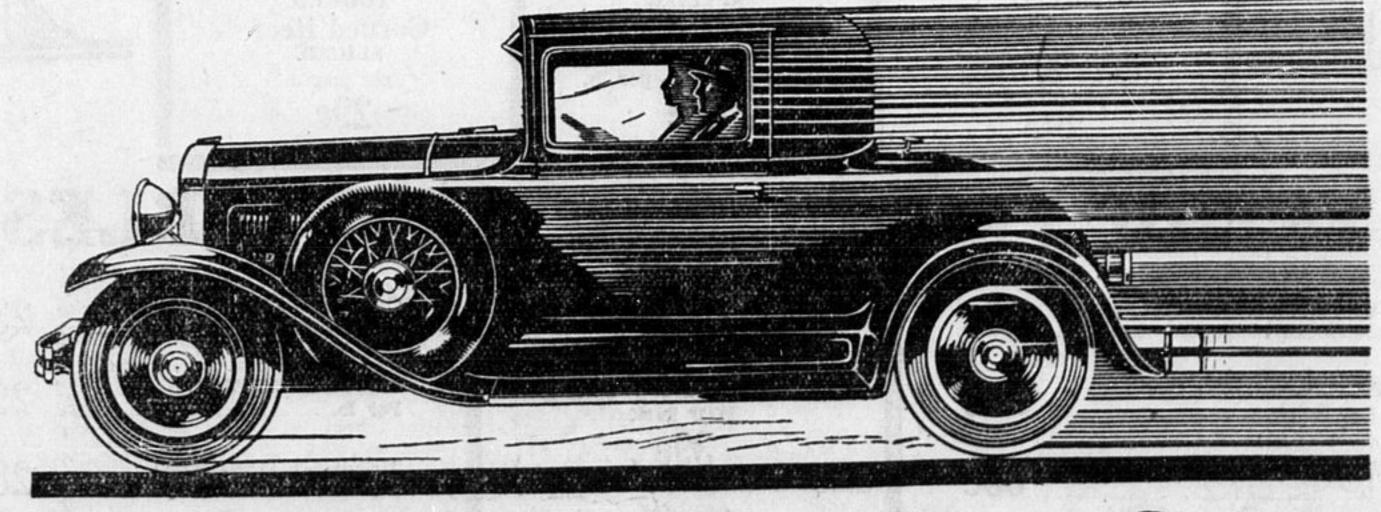
add relaxing comfort. "Finger-tip Control" is another important feature. A single button in the centre of the steering wheel controls all operations of starting the motor, operating lights and sounding horn.

To those remarkable mechanical

features Willys-Overland have added superb outward beauty. Inbuilt strength and stateliness have been artfully tempered to allow a charming jauntiness of line. Rich upholstery fabrics, silver toned hardware and handsome woodwork provide a delightfully pleasing color contrast to the smart exterior finish.

No car so moderately priced has ever before offered so many costly car features. Inspect-drive-and compare. Your nearest Willys-Overland dealer will gladly arrange a demonstration.

Willys Six Prices: Coupe (4 pass., as illustrated) \$935; Coupe (2 pass.) \$895; Coach \$935; Sedan \$1020; Roadster (2 pass.) \$895; Roadster (4 pass.) \$935; Touring \$895; De Luxe Sedan (5 wire wheels) \$1120. All prices f. o. b. factory, Toronto. Taxes extra.



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\$760

f.o.b. Factory, Taxes Extra

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