

THE IONE INDEPENDENT

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Valentines at Bargain Prices.
Bullards Pharmacy.

JANUARY

BY DENNIS A. MCCARTHY, LL. D.

From the "Book Builder," Ginn & Company, Boston.

January's breath benumbs
Even when her skies are bright;
Freezing from the north it comes
Over hills and valleys white,
January's brooks are mute,
Save, where in the snow, some
rill,
Tinkling like a broken lute,
Makes a tiny music still—
In the silence so profound,
As it hides, and glides along,
Makes a faint and eerie sound
Like the ghost of summer's
song.

Bitter cold on hands and face;
January's kiss is cold,
Yet behold how young and old
Revel in that cold embrace.
See, on every lake and pond,
Skimming skaters whirl and
dash,
Where from dizzy heights beyond
Shod with speed the skiers lash.
And though brooks no longer sing,
To our ears a summer tune,
January's breath can bring
To our cheeks the rose of June.

For she was just the quiet kind whose natures never vary;
As streams that see a summer wind snowhid in January.

J. Russell Lowell

CHURCH DIRECTORY

CONGREGATIONAL CHURCH

Rev. W. W. HEAD, Pastor
Services
11:00 A. M. and 8:00 P. M.
Prayer Meeting, Wed., 7:30

FIRST CHRISTIAN CHURCH

Sunday School 10:00 A. M.
Prayer Meeting Thurs. Evening
Services
10:00 A. M. and 8:00 P. M.

FIRST BAPTIST CHURCH

Sunday School at 10:00 A. M.
Junior Endeavor at 5:30 P. M.
Prayer meeting Thurs. 7:30 P. M.

C. L. SWEET

Attorney At Law

First National Bank Building
Heppner - Oregon

NOTICE TO CREDITORS

Notice is hereby given that the
undersigned, as Superintendent of
Banks for the State of Oregon, is in
charge of the assets and affairs of
the Bank of Ione, Ione, Oregon, for
the purpose of liquidation.

All persons who have claims against
said Bank are hereby notified to
make legal proof thereof, by filing a
duly verified claim, as by law provided,
with the Deputy Superintendent of
Banks in charge, at the office Bank
of Ione, Ione, Oregon, on or before
the 14th day of April, 1927.

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14th, 1927.

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14th 1927.

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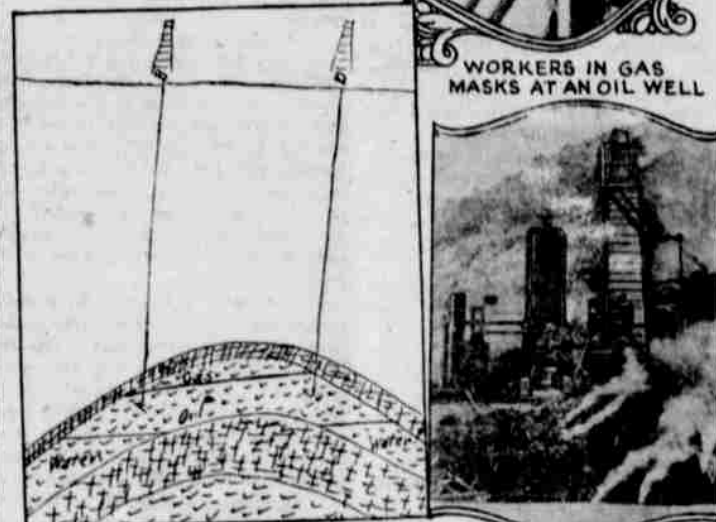
Heppner - Oregon

**BUTTER
WRAPERS**
Printed
In This Office.

U. S. Authority Sees Ample Motor Fuel for Long Future



HARRY H. HILL
© HARRIS & EWING



WORKERS IN GAS
MASKS AT AN OIL WELL

MR. HILL'S IMPROMPTU SKETCH OF
AN OIL DOME

The U. S. Bureau of Mines is confident that motor fuel supplies
will be ample for many years to meet all needs of the country's mil-
lions of automobiles. Harry H. Hill, chief petroleum engineer of the
Bureau, here tells the reasons for this conviction, and sketches the
advances in industrial methods which justify his opinions.

By HARRY H. HILL

Chief Petroleum Engineer, United States Bureau of Mines.

ONE reason why there is no reason
to worry greatly about
motor fuel for a long time
ahead is that people are worrying
about it. Interest in such a question
at the right time, is the best insurance
against disaster. The President
and the Federal Oil Corporation
Board have done what was needed, at
the right time.

We know that most petroleum has
come from rather limited areas and
that even from these only a small pro-
portion has been taken out. Oil pro-
duced by gas pressure capable of lift-
ing it to the surface when we drill
holes is but a small proportion of all
the oil contained in the sands. Even
from the best pools recovery by the
old methods is small, perhaps one-
half in the most favorable conditions,
often one-sixth, or one-seventh, or
one-tenth. But a considerable part of
what still remains in the ground can
be recovered by methods now estab-
lished as technically and economically
practicable.

Producing oil from coal and shales
and by mining the oil bearing sands
is entirely possible. Experiments are
going on in these directions, and if we
ever have to fall back on these re-
sources we will be ready. For a long
time, however, the present methods of
exploration and drilling, with improv-
ing processes to assure larger recov-
eries, are likely to suffice.

An Oil Dome Illustrated

I am no draughtsman, but maybe I
can draw something that will help ex-
plain. Here's a rough drawing of an
oil dome. The shaded part at the bot-
tom is a deposit of oil bearing sands—
with an impervious rock stratum
above. A wild-catter drilled the hole
A-B and gas pressure caused oil and
gas to flow. After a while the gas
pressure wasn't sufficient to keep up
the flow and they pumped until ulti-
mately even this ceased producing.

Nevertheless, most of the oil was
still left sticking to the sand grains.
Then the operator drilled the well
C-D, which flowed for a time, but most
of the oil was still down there in the
sand. If the gas pressure could be re-
stored more would flow. So the op-
erator injects gas into one well, restor-
ing the pressure and causing the oil
to resume flowing from the other.
After a time the flow will stop again,
but still much of the oil will be left.
In some fields it has been possible to
obtain additional amounts of oil by
introducing water in some of the wells
and forcing the oil to others. The ad-
dition of a chemical such as soda ash
to the water may assist in removing
the oil from the sand grains, but nei-
ther plain water nor water containing
chemicals should be introduced into
an oil sand except as a last resort,
for it is likely that the water, which
travels faster through the sand, will
get to the open well ahead of the oil
and when the flow is resumed under
pressure water will come out.

Everything Saves Nowadays

The gas escaping from an oil well
carries with it a proportion of gaso-
line, which in the old days was lost.
Nowadays it is extracted from the gas
and saved, while the dry gas can be
forced back into the ground to main-
tain pressure.

One of the methods to most oil
pools is the inflow of subterranean
water. Water flows through the oil
sands faster than oil, and by surround-
ing the bottom of the well keeps the

oil out. How to shut off the water
and permit the oil to run out is a prob-
lem with which the engineers have
long worked. They have made great
progress and so increased recoveries.

In earlier times most oil producers
carefully guarded all information
about their wells and experiences, but
latterly there is co-operation in these
matters. Geologists and petroleum
engineers, once derided by the "prac-
tical" oil men, are more and more
accepted as guides and mentors. New
knowledge is constantly increasing re-
coveries.

As to Mining for Oil

In Lorraine they have dug shafts
down to the oil sands and actually
brought the sands out, like coal from
a mine. But it's costly.

Another mining process is to sink a
shaft to the oil sands and from its
bottom drive tunnels in all directions
through the sands. From these tun-
nels small perforated pipes are driven
into the sands, which drain the oil
out of the sands. It flows to larger
pipes back at the foot of the shaft and
thence is pumped out. This requires
installing an expensive plant, but in
some fields the high recovery that is
assured might justify the cost. I
understand the process is about to be
installed in a few fields in this coun-
try, some companies being convinced
it is practicable and profitable.

Oil can be distilled from coal, and
much work is now being done
along this line. But more appeal has
been made by the plan of extracting
oil from shale. The shales of Scotland
have been worked for three-quarters
of a century, and they are almost un-
limited in this country, richer in oil
than those of Scotland, Kentucky,
Ohio, Colorado, Utah, Nevada, Wy-
oming and California are particularly
rich in shales. It is just a question
of the cost of extracting the oil. Con-
gress has given \$180,000, with which
the Bureau has installed a plant near
Rulison, Colorado, to distill oil from
the Colorado River Shales. It is
calculated that the shales mined at
Rulison will produce about a barrel
of oil to the ton.

The Use of Oil Shales

In Scotland they are working shales
that produce about twenty-five gallons
of oil per ton. The seams are from
three-and-a-half to eight or ten feet
thick. In Colorado are seams many
times as thick and containing much
more oil per ton. Reduction of shales
involves an enormous mining opera-
tion, and after the oil is extracted the
vast tonnage of refuse must be dis-
posed of. So it is expensive compared
with producing oil from wells.

Ben E. Lindsey of the Bureau of
Mines Experiment Station at Bartles-
ville, Okla., is confident that explora-
tion, better recoveries, better utiliza-
tion and deeper drilling would furnish
enough oil to meet all requirements
for at least twenty-five to fifty years,
if it could be extracted in that time.
But as a practical matter this will not
be possible. Within that period there
will be times of shortage, when oil
from shales will be needed to suppli-
ment the oil from wells, etc.

Meantime federal and state govern-
ments and the industry are co-operat-
ing in an astonishing range of inves-
tigations and studies. These activities
cover such a wide field that even an
enumeration of them would run into
tiresome detail.

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