

IT SEEMS TO ME

That the present crop of children is being raised by grandmothers and scoutmasters. That you shouldn't be impatient when the fish don't bite. At least you have the satisfaction of knowing that you are at last on the end of a line that isn't busy.

That a bigamist is a man that makes the same mistake twice.

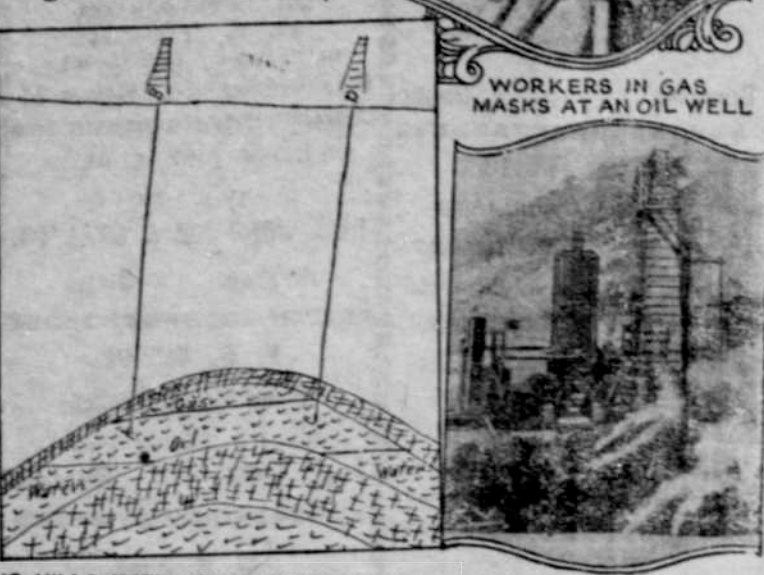
Beaverton Review, \$1.50 a year
Says I to myself, says I,
"The Review's the paper
For me to buy,"
Says I.

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



HARRY H. HILL
CHIEF PETROLEUM ENGINEER



MR. HILL'S IMPROMPTU SKETCH OF AN OIL DOME. EXPERIMENTAL OIL SHALE REDUCTION PLANT

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 millions 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 proportion has been taken out. Oil produced by gas pressure capable of lifting 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-tenth, or one-seventh, or one-tenth. But a considerable part of what still remains in the ground can be recovered by methods now established 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 resources we will be ready. For a long time, however, the present methods of exploration and drilling, with improving processes to assure larger recoveries, are likely to suffice.

An Oil Dome Illustrated

I am no draftsman, but maybe I can draw something that will help explain. Here's a rough drawing of an oil dome. The shaded part at the bottom 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 ultimately 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 restored more would flow. So the operator injected gas into one well, restoring 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 addition of a chemical such as soda ash to the water may assist in removing the oil from the sand grains, but neither 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 wells ahead of the oil and when the flow is resumed under pressure water will come out.

Everything Saved Nowadays

The gas escaping from an oil well carries with it a proportion of gasoline, 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 maintain pressure.

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

oil out. How to shut off the water and permit the oil to run out is a problem 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 divided by the "practical" oil men, are more and more accepted as guides and mentors. New knowledge is constantly increasing recoveries.

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 the bottom drive tunnels in all directions through the sands. From these tunnels 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 if 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 country, 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 unlimited in this country, richer in oil than those of Scotland. Kentucky, Ohio, Colorado, Utah, Nevada, Wyoming and California are particularly rich in shales. It is just a question of the cost of extracting the oil. Congress has given \$150,000, 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 operation, and after the oil is extracted the vast tonnage of refuse must be disposed of. So it is expensive compared with producing oil from wells.

Ben E. Lindsey of the Bureau of Mines Experiment Station at Bartlesville, Okla., is confident that exploration, better recoveries, better utilization 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 supplement the oil from wells, etc.

Meantime federal and state governments and the industry are co-operating in an astonishing range of investigations and studies. These activities cover such a wide field that even an enumeration of them would run into tiresome detail.

FROM OUR CORRESPONDENTS

Interesting Little Notes from the Surrounding Country as Told by Our Active Special Correspondents Weekly

KINTON NEWS

Mrs. C. W. Young was transacting business in Hillsboro on Friday.

Mr. and Mrs. C. W. Young and family spent the day Sunday with relatives in Portland.

Mrs. L. S. Bierly, Mrs. Ethel McCormick and children were county seat callers Saturday.

E. L. Mapes, insurance agent from Gaston, was in town on Monday, transacting business.

Charles Warren of Oregon City spent the week end at the home of Mrs. Herbert VanKleeck.

Billie and Raymond Mitchebe of Hillsboro are visiting their grandmother, Mrs. Julius Wedeking.

Mr. and Mrs. Robert Pomeroy and daughters spent the day Saturday with relatives in Portland.

Mr. and Mrs. Everett Wright and Miss Kathryn Pomeroy were visiting relatives in Tualatin Sunday.

Mrs. Jake Koenig, who was quite poorly last week, is reported as somewhat improved at this writing.

Misses Frances and Gladys Brown of Trout Lake, Wash., spent a few days last week with their cousin, Mrs. Harold Cutting.

Mrs. Alice Cutting of Tigard was a visitor at the home of her son and his wife, Mr. and Mrs. Harold Cutting, Wednesday of last week.

Mr. and Mrs. Frank Miller of Multnomah were callers at the home of Mr. and Mrs. J. T. Van Horn on Tile Flat road Thursday.

Virgil Landres of Chitwood was a week end guest at the home of his father-in-law, J. J. Van Kleeck and wife, Pleasant Valley road.

Messrs. Newble and Ainsworth and Miss May Warren of Portland were Sunday guests at the home of Mrs. Louise Van Kleeck.

Mr. and Mrs. Sam Dennison and Mr. and Mrs. Joe Dahlrymple of Portland were Saturday callers at the Pomeroy home, Tile Flat road.

Some of the farmers are through threshing, while others are stacking their grain, waiting their turn to have it threshed out.

Mr. and Mrs. W. C. Hall and daughter, Mary Katherine, spent the day last Sunday with Mrs. Hall's cousin, F. A. Thomas and wife of Portland.

Messrs. Roscoe and Orval Bierly have been spending the past week with their grandparents, Mr. and Mrs. H. E. Grabhorn, Cooper mountain.

Mrs. Julius Wedeking, Buster and Miss Annie Wedeking, Mrs. Ainsworth and son Clarence and Roy Warren spent Saturday with relatives in Hillsboro.

Mr. and Mrs. Clifford Cutting of Hood River were visitors last week at the home of Mr. Cutting's brother and wife, Mr. and Mrs. Harold Cutting.

Mr. and Mrs. Cecil Waters and daughters, Phyllis and Audrey of Portland were guests on Saturday at the home of Mr. and Mrs. Everett Wright.

Sunday was a very warm day and many found their way to the Riffles and tried to keep cool by swimming in the Tualatin river at this favorite place.

Mr. and Mrs. Clyde Wilkins have been "doling up" the interior of their home on Cooper mountain, by papering and painting a couple of rooms.

Mr. and Mrs. Harry Leedy and family left Thursday on quite an extended motor trip. They will make stops in some of the northwestern states, also Canada.

Mrs. Jennie Ewell, who has been making an extended visit with her daughter, Mrs. Zach Martin, departed recently for Pullman, Wash., where she is visiting her son.

Mr. and Mrs. Roy Bierly are receiving congratulations on the birth of a nice ten pound boy, who arrived at their home last Wednesday morning. Mother and son are doing nicely.

Jake Faix recently took a motor trip to McMinnville, where he resided before coming to this town. He called on many of his old neighbors and friends and spent a very pleasant day with them.

Mrs. D. D. Van Vandermost and daughter, Miss Melba of Seattle, Wash., and Miss Margaret Fortune of St. Johns were week end guests last week at the home of Mr. and Mrs. Vandermost.

Miss Hazel Halse, who has been a guest at the home of Mr. and Mrs. Harold Cutting for the past few weeks, returned last Friday to the home of her grandmother, Mrs. Alice Cutting, of Tigard.

W. L. Van Horn, who is a member of the Portland Naval Reserves, returned Saturday af-

HITEON NEWS

Miss Lillie Cook spent Sunday at the Riffles.

Mr. Schoenwald spent a few days last week at the beach.

Miss Evelyn Hite and friends enjoyed Sunday at Rockaway.

Mrs. Peterson and daughter Genevieve were in Portland Wednesday.

Mrs. Anna Sieges had as her guests Sunday Mr. and Mrs. Ed Newman of Portland.

Everett Metzentine and Dean and Maurice Willoughby enjoyed Monday afternoon at Fatino creek.

Miss Lillie Cook and Dewey McNamee of Kinton spent Sunday evening at the Beaver theatre.

Mrs. William Willoughby has as her guest the past week, her niece, Miss Lyla Birch of Skamokawa, Wash.

The Misses Ethel North, Genevieve Peterson, Florence Seelander, and Effie Van Kleeck were visitors at the Nelson home on Monday evening.

Another new home commenced in Hiteon. Mr. and Mrs. Dralle of Portland are building. Mrs. Dralle is a sister of Mrs. Mike Kahn.

Miss Dorothy Peterson returned Wednesday following a few days spent as a guest of Miss Dorothea Struthers, who is employed at the Good Samaritan hospital in Portland.

The Misses Ethel North, Genevieve Peterson and Effie Van Kleeck and the Messrs. Henry and Lloyd Metzentine enjoyed the well known comedy, "Gracie Snatchers" at the Beaver Theatre.

Mr. and Mrs. Charles Struthers and daughter Elizabeth were guests of Mr. and Mrs. J. B. Phillips of Hillsboro one day last week. Hiteon friends will be interested to know that Mr. and Mrs. Phillips plan to leave soon for a visit to their old home in Illinois and Tennessee.

Nearly ninety people enjoyed the picnic at Mountainhome on Sunday given by Hiteon community. We believe all of Hiteon were there and besides, Mr. Peterson of Portland, the Misses Fay and Jean and Mr. Earl Hite of Aberdeen, Wash.; Mr. and Mrs. John Caldwell, Mr. and Mrs. John Plieth, and Miss Elsie Caldwell, of Tigard; Mrs. Ward Cutting of North Platte, Nebraska; Mr. and Mrs. Frank Erickson of Laurel; Mr. and Mrs. John Schmeltzer and family of Mountainhome, and Mrs. Alice Cutting and Miss Hazel Halse of Tigard were also there.

ter a two weeks' cruise with the Reserves, spent in San Diego, San Francisco, and other California cities.

The following were guests Sunday at the home of Mr. and Mrs. August Wenzel, Cooper mountain: Mr. and Mrs. Carl Herring and family of Gaston, Mr. and Mrs. Newman of Idaho, and Mr. and Mrs. Alfred Wenzel of Portland.

Mr. and Mrs. John Valentine of Portland were guests Sunday at the home of his brother, H. Valentine and wife, Mr. and Mrs. Valentine, of Milwaukee, Wis., another brother, were week end guests at the Valentine home.

This town was very well represented at the county seat Saturday, and the following were seen on the streets: Mr. and Mrs. Fred Clark, Mr. and Mrs. Zach Martin and daughter, Mr. and Mrs. W. C. Hall and daughter, and Mrs. E. L. Cox.

Another one of our progressive farmers has been improving the water system in his home by installing a water tank and cold water in the house. These improvements have been made to the home of Mr. and Mrs. W. C. Hall.

The numerous threshing outfits in this community have been kept busy during the past week. They are owned and operated by the following: Jake Faix, J. J. Van Kleeck, Hesse Bros., Conrad Algesheimer, Ed Rood, A. B. Flint.

Mr. and Mrs. Fred Brown of North Plains spent Sunday with Mr. and Mrs. Harold Cutting. They were accompanied home by the Misses Frances and Gladys Brown and Myron Halse, who have been guests at the Cutting home during the past week.

Frank West, who is employed as carpenter on the new house of Mr. and Mrs. Kirk Hoover, fell one day last week to the basement, and received quite a shaking up. He was attended by Dr. Mason of Beaverton. No bones were broken, and Mr. West is getting along as well as can be expected.

The annual picnic of the Kinton grange will be held next Sunday all day in Elmer's Grove in Sherwood. All the grangers are invited to attend. A picnic dinner will be served at noon. All are requested to bring well filled lunch baskets,

CHURCH ANNOUNCEMENTS

Bethel Congregational Church

Sunday, Aug. 21st, 1927

9:45 a. m. Sunday School.

11:00 a. m. Morning worship.

Sermon, "Meat for Growing Christians."

6:15 p. m., Junior and Intermediate Christian Endeavor.

7:45 p. m., Evening Services.

Sermon, "Would St. Peter and St. Paul Advertise Religion in the Papers?"

—Geo. N. Taylor, Pastor.

Church of Christ

Sunday, Aug. 21st, 1927

9:45 a. m.—Bible school.

T. B. Harris, Superintendent.

11:00 a. m.—Morning worship.

Sermon, "Whatsoever Ye Do."

7:00 p. m.—Young People's meeting.

8:00 p. m.—Evangelistic Service.

Sermon, "The World Up Side Down."

Interest at all services seems to be increasing. It is our aim to make every service worth your while.

If you have a subject that you would like to have discussed, we invite you to drop the same in the question box at the church, or mail it to the pastor. Though we might be unable to use the subject you suggest, we would like to have your suggestion, just the same.

The Bible School is planning a picnic for Labor Day. You are invited to enjoy it with us.

Next Monday the young people of the church will join with the young people's class of Cedar Mills in an all-day picnic on the Pudding River.

J. Frank Cunningham, pastor.

M. E. Church

Sunday, Aug. 21st, 1927

Sunday School at 10:00, and preaching at 11:00 A. M.

Epworth League at 7:00, and evening services at 8 o'clock.

On Sunday, Aug. 28th, Dr. A. L. Howarth, district superintendent will be with us and will conduct the fourth and last quarterly conference of this conference year.

Come to these services. A cordial welcome awaits you.

W. Edwin Ingalls, pastor.

St. Cecilia Church

Sunday Masses — 7:40 and 10 a. m.

Sunday Catechism — 8:30 and 9:30 a. m.

Baptism — 2 p. m.

Weekday Mass 8:20 a. m.

Saturday Confession — 4:30 and 7:30 p. m.

Rev. J. M. O'Neill.

and dishes to serve in. Remember the date, Sunday, Aug. 21.

The annual picnic of the Kinton Sunday School will be held in the grove near the church all day Wednesday, Aug. 31. All in the community and from other communities as well are welcome to attend this picnic. Swings will be put up, and there will be games, races, etc., and a picnic dinner at noon. It is most earnestly desired that all the parents come and bring the little ones, as a good time is promised all who attend. Please bring basket lunch and dishes.

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PART OF REVIEW

FORGE TAKES TRIP

The year's past its zenith; the season's at its hottest, and folks lie on vacations. And in accordance with the popular movement there was an exodus from the Review office Friday with faces turned towards the north.

Literally that is true, for Cedar St. runs north out of Beaverton, and that is the quickest and shortest means of reaching the lower Columbia river highway.

Now, don't be too particular about directions, and we'll try to tell you where to go. Not being just sure ourselves, we are hardly in a position to give directions with any degree of certainty, but we found the way, we did not have to turn back, nor did we ask anyone which way to go from the time we left Beaverton until we got to Tenino, and that is a long way from Beaverton, about 150 miles.

But that is just a little bit ahead of our story. We left Beaverton towards the north on Cedar street, and proceeded to the Cornell road, where we turned west. The next turn was at the first rock road leading again to the north, where the sign reads "Hillsboro, North Plains, Bethany," with the distances to these places. Following the road from there brought us out to a corner bearing a sign pointing to Cornelius Pass.

This is not at all a bad road to travel, though to those who like the pavement and the crowd it would probably have no appeal. There were holes, and bad spots in what had been old-bound macadam. There is a little grade going up, but not such that a flivver was troubled going up on high.

Near where the Lois brothers

had their saw mill, we saw the finest late goods that it has been our pleasure to see this year. Such an even stand all over the field, not a hill missing, and thrifty looking, they bid fair to return a good profit to their grower this fall. Along in this neighborhood there were several stacks of grain in the fields that had not been threshed, and along down towards the Rock Creek school there were fields of oats that were not yet cut.

Just down the hill there was a log train on the United Railroad coming into view. The logs probably came from Vernonia. We passed the train going down the other side of the Pass though it had come out from the tunnel before we got there. After coming down on the pavement just west of Linton, we started west. Dinner picnic style was eaten on the highway just this side of Rainier, Ore., where we took the ferry for Longview. This is a well laid-out town, wide streets, parks running lengthwise between the two sides of the streets, well-kept lawns, plenty of flowers, and other things to improve the appearance of the town.

From Longview and Kelso we headed north up the Pacific highway, which we followed to Tenino, where we branched off and drove to Rainier, Wash. This is just a little lumber town nestling up against the foothills of the Cascades. One saw mill there, and little or no farming land very near, as they have to import from Yelm and other points all their garden vegetables.

HERE'S A SNAPPY ONE

Perhaps it was the power of auto-section, but, anyway, the yellow-leader shouted at the girls' rooting section, "Come on you girls, show you're supporters."

When stopping on a highway to make minor repairs, stop your car where you can be seen from both directions—else you may lose some of your anatomy.

If you must speed find a nice lonely road with a brick wall at the other end. This will save gas.

That Printing For You. Let The Beaverton Review Do

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