

A NEW INDUSTRY FOR THIS STATE

Careful Experiments Carried on by Sylvester Sparling of Evanston, Ill., Shows that Sage Brush is one of Nevada's Most Valuable Resources, and Nevada Will Boom.

For some time past the state board of publicity and the state engineer's office have been endeavoring to secure capital for the manufacturing of various products from the sagebrush of Nevada.

Over a quarter of a century ago Thomas Edison when in Virginia City remarked to some friends that the Lord Almighty never put so much sagebrush or anything else in one place unless he meant it for some economic use.

Various attempts have been made in the past few years to utilize the sagebrush. The late Thomas Wern experimented with it and produced a very fine quality of tannin oil and Mr. P. B. Ellis of this city macerated it and by treating it chemically produced a very excellent quality of rubber. After some Chicago people became interested they asked for reports on the extent of the growth of sagebrush in this state and these reports were furnished by the state engineer.

As a result of the correspondence on the subject a company has been incorporated in Chicago known as the Chemical Produce company, having a capitalization of \$150,000, fully paid up and non-assessable, with a view to putting up plants in this state for the extraction of wood alcohol, tar, creosote, pitch, acetic acid and charcoal.

A careful series of experiments demonstrated just what profit there is in 18,000 tons of sagebrush. The yield from that amount was \$282,357, and the cost of producing the commercial products was \$90,000, which gave a net profit of \$192,357. The yield per ton averages something over \$15.

These are cold figures from actual experiments, and mean a great deal to this state.

Every man who has ever been in the west knows of the vast expanse of territory covered by sagebrush which has heretofore been known as useless waste. Millions of acres and hundreds of square miles are covered with it.

Recently four tons of sagebrush was shipped to Evanston, Ill., from the west, and a retort was built for the purpose of testing it. When the experiment was made it showed the following results:

The yields of the products from 4000 pounds of the sagebrush are as follows:

220 gallons of distillate.
1350 pounds of charcoal.
The distillate was fractionated and produced:
Tar, 33 gallons; wood alcohol, 11

gallons; acetic acid, 466.2 pounds.
The tar was fractionated and produced: Wood oil, 16.26 gallons; creosote oil, 7.70 gallons; pitch, 9 gallons.

Prices and value of product from 4000 pounds of sagebrush:
1350 lbs. charcoal.....\$ 7.32
11 gals. wood alcohol... 5.50
466 gals. acetic acid..... 5.82
36 lbs. acetone..... 4.32
130 lbs. wood oil..... 2.60
66.6 lbs creosote oil.... 1.83
72 lbs. pitch..... .72
57 lbs. calcium carbonate 2.85

Total\$30.96

It will thus be seen that there is money in sagebrush, and that Nevada has much of it for future use as shown by the following letter:

Mr. Frank E. Hirsch, President Charles City College, Charles City, Iowa,

Dear Sir:—Replying to your favor of May 15 concerning the growth of wood commonly known in this vicinity as sagebrush, I cannot state authoritatively as to acreage containing sagebrush within the state of Nevada, but I would conservatively estimate the area at three million acres, that could be adapted to a commercial use.

In certain portions of this state the sagebrush grows six to eight feet in height, and having a base or trunk six to eight inches in diameter. Immediately north of Reno and extending northerly for nearly 100 miles, there is a large luxuriant growth that could be readily obtained for your use, and I will be pleased to accompany any representative you may in the future decide to send to investigate the amount available.

Very truly yours,
FRANK R. NICHOLAS,
State Engineer.

STRIKE BIG LEDGE OF MILLING ORE

Reports from Lida state that a big strike has been made two miles east of that town, on a property belonging to F. F. Frisbee and James McGowan of Goldfield. The body of ore is represented as being so large that the owners would be in a fair way of entering the millionaire class providing it was equal to the description. It was pictured as a body of free milling gold ore of from 4 to 14 feet wide, assaying in parts up in the pictures. Mr. McGowan, however, says he is not satisfied that he has more than a good milling proposition, especially as he

is down only 26 feet, with an 8-foot ledge and values that have yet to be established.

BIG LEAD FIND AT BATTLE MOUNTAIN

GREATEST SURFACE SHOWING OF SILVER-LEAD ORE EVER DISCOVERED IN NEVADA

What is probably one of the biggest surface showings of silver-lead deposits ever found in this part of Nevada was discovered a few days ago by R. C. Isherwood and Clyde Ganser about 30 miles west of Battle Mountain and in the vicinity of Smelzer ranch, says the Battle Mountain Herald. The two men were prospecting in the mountains on the west side of the Buffalo Valley when they found some rich specimens of lead float. They traced this to the ledge without great difficulty, as within a short distance from where the float was first found erosion had left the ore shoot in plain view at the top of the ground, with huge boulders of the metal weighing as high as 300 and 400 pounds scattered over the surface.

The deposit is a contact vein between lime and porphyry, the mineralization being due, doubtless, to the intrusive dykes of porphyry, which cut the lime formation with a northerly and southerly strike. Occurring parallel with the porphyry is also an enormous conglomerate which gives additional evidence of strong eruptive action. The matrix of the ore is a heavy spar, forming three distinct and well defined ledges which can be traced by their strong outcrop for more than a mile.

The number and extent of the ore shoots cannot as yet be determined on account of the limited exploration, but judging from the number of places along the course of the ledges where metallic specimens of the ore are distributed, there is good reason for believing that the enriched portions of the ledge will prove to be extensive.

ST. MARK'S EPISCOPAL CHURCH

Services Sunday, Nov. 14—Holy communion, 8 a. m.; morning prayer, 11 a. m. The Rev. Mr. Smith, Sunday school organizer of the diocese, will preach. Sunday school, 9:45 a. m.; evening prayer, 8 p. m.; sermon, "Moses, the National Leader." Everyone is most cordially invited to these services.
LLOYD B. THOMAS, Rector.

CHRISTIAN SCIENCE SERVICES

At Elks' hall Sunday morning at 11 o'clock; subject, "Mortals and Immortals." To these services all are welcome.

Mrs. O. S. Potter is again at the Mizpah with a complete line of millinery. Bargains, don't miss it. Friday and Saturday only. 13 2t

STOCK MARKET

Contrary to the custom as established on the previous Saturday sessions of the San Francisco stock exchange, the local securities did not take a slump yesterday. Both Montana and Midway advanced three points, while the remaining stocks closed at the same figure as asked on Friday's closing with the exception of Jim Butler, which dropped down a point.

Fraction of Goldfield went up two cents, while Florence dropped three points.

The following quotations are furnished by Broker H. E. Epstine:

| Tonopah District | |
|----------------------|-----------|
| Tonopah Mining | 6.50 |
| Montana | .78 .80 |
| Tonopah Ex. | .49 .51 |
| MacNamara | .28 .29 |
| Midway | .19 .21 |
| Belmont | .75 |
| North Star | .02 |
| West End | .24 |
| Rescue | .02 |
| Jim Butler | .11 .12 |
| Goldfield District | |
| Consolidated | 7.15 7.20 |
| Columbia Mt. | .07 .08 |
| Booth | .09 .11 |
| Atlanta | .11 .12 |
| Florence | 2.42 2.47 |
| Daisy | .06 .07 |
| Comb. Fraction | .47 .48 |
| Kewana | .04 .05 |
| Miscellaneous | |
| Mayflower | .19 .11 |
| Valley View | .02 .03 |
| Pittsburg Silver Pk. | .60 |
| Manhattan Con. | .03 |

BAPTIST CHURCH

Sunday school 10 a. m.; preaching at 11 a. m. and 7:30 p. m. At each of the preaching services Rev. J. S. Ledford, "The singing evangelist," will sing special solos. Mr. Ledford



is well and favorably known on the Pacific slope as a successful and powerful evangelist. The evenings of this week will be given to prayer and preparation for revival services to follow.

PRESBYTERIAN CHURCH

Preaching at 11 a. m. and 7:30 p. m. The evening meeting will be led by service of song. A cordial invitation to all. "Come with us and we will do thee good." Sunday school at 9:45 a. m. Young people's meeting at 6:30 p. m.
H. L. BURNHAM,
Minister

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OUT OF TOWN ACCOUNTS GIVEN PROMPT ATTENTION.

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JUDGE GAYNOR AFTER PRESIDENCY