# DANBY DRY LAKE 6-17-05

## Interesting Story of a Desiccated Bed Containing Large Deposits of Salt, Soda, Gypsum, Etc.

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is situated about thirty miles south of Danby, a station on the Santa Fe railway, some forty miles west of Needles, in San Bernardino county, California. The salt it furnished was the chief dependence in chlorinizing silver at the famous Waterman and Waterloo mines near near Fenner. The latter produced packed on burros, but in 1890 Colonel other rocks obtained from the desert, into the sand. A thriving business was done here before the depreciation a ton. But the production ceased years ago, and one great traction engine and wagon may be seen rusting and falling into decay at Danby, and another a few miles out from Dag- sait is still forming in beautiful botrygett

This interesting lake bed is about three by twelve miles in extent. It has been reported upon by several experts, among them being Professor G. and side by side with the other forms E. Bailey, Ph. D. Mr. Bailey was formerly professor of Chemistry in the University of Nebraska and at a later period Geologist of Wyoming. He is now a resident of Los Angeles. I examined these deposits for the Saline Valley Chemical Works last month and fully agree with him and others, in their high estimate of the great extent and the remarkable purity of these deposits. They consist of salt, sulphate, and carbonate of soda, salt brines, soda brines, clay, gypsum, ce-

HIS REMARKABLE dry lake ment material, and minerals not yet developed. It is a desiccated lake bed posits.

#### ROCK SALT

This mineral underlies from six to Daggett; also at the Providence mill eight hundred acres, possibly much more, territory. It has been penetramore than two and a half million dol- ted to a depth of about sixty-five feet lars in silver, and the two former pro- without passing through the deposit. duced many millions. The native salt Water is reached at depth varying was first hauled out on wagons and from seventeen to thirty-five feet, when the rock salt becomes as clear Osborn constructed a road from Dan- as the purest ice and can be taken by to the lake, and put on traction out in blocks of any desired size. The engines and wagons. He paved each deposit is practically inexhaustible, side of the road with lava ejecta and The brines are almost chemically pure and while they have the appearance to keep the heavy wheels from sinking of limpid water, they contain a heavy percentage of salt which crystallizes when evaporated. They gave Proof silver, some of the salt bringing \$200 | fessor Bailey 99 per cent. of sodium chloride and traces of lime and alumina. The surface salt is very abun dant.

At one place on the old lake bed the oidal forms and acicular points, nearly as white as driven snow. Halite or rock salt is forming in the same place

mentioned.

#### NATIVE SODA.

There are large deposits of native soda in the forms of sodium carbonate and sodiam sulphate. The former appears as an opaque white salt. Combined, they cover several hundred acres from two to five feet deep. An since its construction fifteen years alysis has shown them to contain a ago. It is as solid as when erected, large percentage of the respective sod-, due doubtless, to the dryness of the iums even when mixed with clay, climate. sand, etc.

GYPSUM.

There is a large deposit of gypsum in which the salts derived from the covering several hundred acres of this surrounding mountains and plains desiccated lake bed. It is a selenite have concentrated for untold ages, and gypsum, remarkable for its purity. It have formed large and valuable des appears in skeleton form, like thinolite, in hillocks and on the surfact and is vast in its extent.

### LIMESTONE.

Near this lake is a mountain of lime stone rising above the surrounding plain, a conspicuous object for mile; distant. It consists of, crystallized limestone, or marble. Some of it is dolomitic and beautifully crystallized in snowy white crystals, and also bluish. There is also a large deposiof variegated marble suitable for inside finish and all kinds of ornamenta.

The company owning these depositi. is preparing to put them on the market, for which there is a demand. The Arizona and California, railway com pany has made a survey for its road along the margin of this old lake which will make transportation easy.

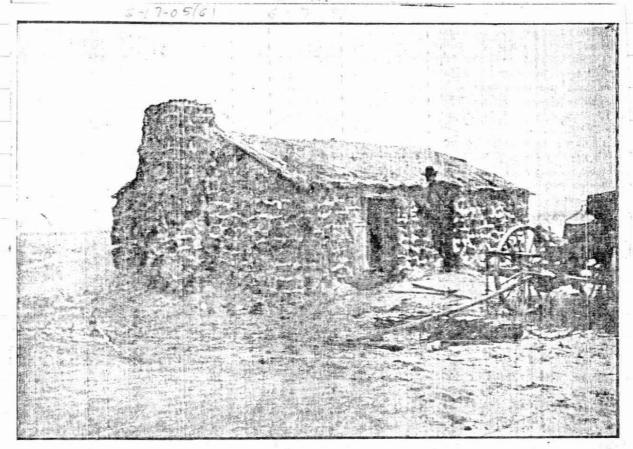
## ROCK SALT HOUSE.

One of the accompanying engravings shows a house erected on Danby Lake bed wholly constructed of rock salt, excepting the roof. Blocks of this mineral were quarried and placed in. the walls, after which natural brine was poured over them which thoroughly cemented them together, leaving the joints as hard as the blocks themselves. The building is about 16 by 25 feet in size. The engraving does not show the full height because of the sands that have drifted around it

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HOUSE BUILT OF PLOCES OF ROCK SALT



SALT FORMING ON DANSY DRY LAKE