

MINERAL SURVEY UNDER WAY FOR NEVADA COUNTY

Nevada Co. Aug. 1938

Complete Survey of County to Be Made to Locate Valuable Minerals.

As a part of a statewide WPA project a mineral survey is under way in Nevada county. The project was started last Monday and is under the supervision of E. H. Weaver, former county judge. Mr. Weaver reports that rapid progress is being made on this new project, which employs 17 workers beside himself.

The object of the project as set forth in the proposed data, is as follows:

It is a part of a statewide geological survey to determine the location and extent of road and construction materials, minerals, and other natural resources, the probable amounts of each, their adaptability to commercial uses and the preparation and publication of the compiled findings of the survey. This includes the laboratory testing and analysis of these various materials.

The purpose of the project is to determine the classification and location of all the mineral resources of this state and compilation of that information for public use, which will be of great and permanent use to the county, state and nation. This will probably lead to the development of new industries, the location of strategic and deficient minerals necessary to national defense. It would assist greatly in reducing present and future construction costs of all types of road building. It is the intention of this project to make as complete a survey of the various mineral products of the state as may be possible with the money allocated, the time available, and the qualifications of the employes.

Mr. Weaver has offices in the Chamber of Commerce building and anyone desiring further information about the project may contact him there.

Friday, September 9, 1938

Mineral Survey Making Progress in This County

Nevada Co.

Considerable work has been accomplished in Nevada county by the State Mineral Survey, sponsored by State Geological Survey. R. E. Vandruff has been assigned to conduct a one-day school of instruction in Nevada county this week. Mr. Vandruff plans to hold similar instructions in Howard, Garland and Pike counties.

E. H. Weaver to Supervise New Project

Nevada Co. Aug. 1938.

E. H. Weaver yesterday gave us the following facts concerning a new W. P. A. project for this county, which he will supervise, through the Geological Survey:

The object of this project as set forth in proposed data, is as follows:

"Part of state-wide survey to determine the location and extent of road and construction materials, minerals and other natural resources, the probable amounts of each, their adaptability to commercial uses and the preparation and publication of the compiled findings of the survey. This includes the laboratory testing and analysis of these various materials."

Justification for same is indicated as follows:

"The location and classification of all of the mineral resources of this state and compilation of that information for public use will be of great and permanent value to the state and nation. This will lead to the development of new industries, the location of strategic and deficient minerals necessary to national defense. It would assist greatly in reducing present and future construction costs of all types of road building.

As set up in this office, the project is based on district and county units. Districts usually consist of a number of counties, each, to be in charge of a district supervisor who will be responsible for the work in his district. County supervisors will report to the district supervisors.

It is the intention of this project to make as complete a survey of the various mineral products of the state as may be possible with the money allocated, the time available, and the qualifications of the employes.

This project was started in Nevada county August 15th, and is progressing as rapidly as possible. There are 17 workers employed on the project besides the supervisor.

State Geologist Gives Talk, Demonstration

Nevada Co. 9/9/38

Considerable work has been accomplished in Nevada county by the state mineral survey, sponsored by State Geological Survey. Mr. R. E. Vandruff, geologist, from the state office, conducted a one day school of instruction here September 9. He gave instructions in regard to mapping and retracing in the office and spent the afternoon out in the field instructing the workers in regard to taking cross-sections. Mr. Vandruff seemed pleased with the setup in the county, also with the work that has been done. He is holding similar instructions in Howard, Garland and Pike counties.

The local office reports that 25 square miles has been worked and is complete with the exception of taking some extra samples at various points.

Nevada County Recayene

10/20/38 NUMBER 36

GOVERNMENT TO BUILD LABORATORY IN ARKANSAS

Project Sponsored by the Arkansas Geological Survey.

Information was received October 11th from Washington stating that a project for the construction of a laboratory to test and analyze state minerals has been approved by the president. The project is sponsored by Arkansas Geological Survey. The new building will furnish the Geological Survey with a much needed laboratory to analyze the samples now collected, mapped and classified by the State Mineral Survey. Several thousand samples from sections of the state are now on hand to be tested or analyzed.

The State Mineral Survey is now active in thirty-seven counties covering 37,000 square miles and employing about 700 people. The object of the survey is to locate, map, estimate, sample and describe each section of land to determine the surface indications of minerals. In many places bore holes are made to determine the depth and extent of deposits which do not appear on the surface. Subsurface cross-sections are being made of some districts where clay is the chief natural resources.

Maps are made of each township covered showing the cultural development which with the mineral and water maps gives detailed information for future development and improvement of any area showing promise.

Plans are now in progress which will make it possible within a few days for the various counties to test the hardness and chlorides of water wells and springs. This information will be compiled in bulletin form and maps will be made showing the results of this survey.

State Mineral Survey Making Valuable Discoveries in County

Nevada Co. 11/10/38

The State Mineral Survey is now working Township 11S, Range 20 W, of the Northeast part of the county. The survey, to date, has covered 129 square miles. Test holes have been made, deep water wells checked and logs of shallow water wells taken in view of checking different formations found.

Several different clays has been located at different depths. Deposits of Koalin Clay has been located at Laneburg and near Sutton in the central part of the county. Also, a petrified tree has been found on the Dock Kizer farm near Laneburg that measures 46 feet in length, and 3 1-2 feet in diameter.

C. Of C. Seeks Market for Clays Found Here

Prescott Daily News 12/1/38

The Chamber of Commerce for the last several months has made an effort to find a market for the many different clays to be found in Nevada County and the adjacent area. With hopes of establishing processing plant here, their efforts have included contacting corporations, including manufacturers and refiners and taking samples of clay from deposits in this county and having them analyzed and processed.

Mr. J. W. Crotty of the Southern Products Company, Dallas, Texas, was in the Chamber of Commerce office this week and was shown several types of clay in the County. After their laboratories have made tests of this clay a report will be made to the Chamber of Commerce.

The Mineral Survey, under the supervision of Mr. E. H. Weaver, is making a distinct contribution to the property owners and to the State Geologists and have sided the Chamber of Commerce in that they have discovered several deposits.

Nevada

Nevada County Clays, Gravel Are Revealed

Ark. Branner
12/23/39
WPA and State Survey
Also Discloses 17 Ar-
tesian Wells.

Camden—A mineral survey now in progress in Nevada county has brought forth some interesting facts.

Of the 620 square miles of Nevada county, 536 are to be covered by the survey now being conducted by the WPA and sponsored by the State Geological Survey. E. H. Weaver, former county judge, is county surveyor of the project.

Since the beginning of the work in August, 1938, 125 square miles of the allotted territory have been examined. So far, the most important minerals located and mapped are road and construction materials and clays. The survey does not claim to have made new discoveries in all deposits located and mapped. But the survey has served the purpose of determining the extent of the deposits of clays and gravels, and of making note of their accessibility and possibilities of development.

About six miles south of Prescott on State Highway No. 19 is a deposit of gravel covering 10 acres with a depth of from three feet to six feet. Five miles east of Prescott there is a deposit of red clay-gravel which, in places, reaches a depth of 10 feet. This is easily accessible by a county road. Still another bed of good road-making material is located about nine miles east of Prescott, just off Highway No. 24. The depth is up to nine feet and the deposit covers approximately 30 acres.

Clay Deposits.

In Sections 27, 32 and 33, Township 11 South, Range 20 West (in the northeastern section of the county), the survey has located clay deposits in various shades of red, gray, blue-gray and dark blue. These are in the region northwest of Bluff City, some within two miles, some at 10 miles distance, and within three miles of State Highway No. 24.

The strata of dark blue clays, which are plastic and comparatively free from sand, vary in thickness from two feet to five feet and cover an area of about 10 acres. The clays of gray and red in the same vicinity reach a depth of six feet.

Deposits of kaolin clay have been located and mapped in the central section of the county, in the vicinity of Lanesburg and Sutton. Samples of these clays have been sent to the laboratory in Little Rock to determine their value and utility.

17 Artesian Wells.

The survey of water wells in Nevada county, so far as the work has gone, has disclosed an interesting situation. Of the 146 wells examined, 17 are artesian, all in the northwestern part of the county. The average depth of these wells is 376 feet, the overflow measurement ranging between 3,000 and 77,760 gallons every 24 hours. Two such wells, each flowing 50,000 gallons daily, are used in public capacity, one by the Ozan Lumber Company, the other by a hunting and fishing club of Prescott. Water from artesian wells is generally soft.

The record of the survey as to "dug" wells also presents valuable information. Of the 128 dug wells thus far examined, the depth has been found to be as little as five feet in some instances, and as much as 70 feet in others, the shallower wells being in the northeastern corner of the county. Dug wells, ranging in depth from 10 to 36 feet, have capacities ranging between 300 and 1,500 gallons a day. One such well of 30 feet, however, maintains a capacity flow of 2,400 gallons a day throughout the year. Perhaps more unusual for the vicinity is a 22-foot well near Boughton which has a capacity of 4,000 gallons every 24 hours. The depth of the well does not govern the amount of water, as numerous wells of 35-foot depth and less are producing more water than those of twice the depth.

Progress Of The Mineral Survey In Nevada County

Daily Banner News 11/23/39
The Mineral Survey now in progress in Nevada county has brought forth some interesting facts. Of the 620 square miles area of Nevada county, 536 are to be covered by the survey now being conducted by WPA under the sponsorship of the State Geological Survey. E. H. Weaver, former County Judge, is the County Supervisor of the project.

Since the beginning of the work in August, 1938, 125 square miles of the allotted territory have been examined. So far, the most important minerals located and mapped are road and construction materials and clays. The survey does not claim to have made new discoveries in all deposits located and mapped. But the survey has served the good purpose of determining the extent of the deposits of clays and gravels, and of making note of their accessibility and possibilities of development.

About 6 miles south of Prescott on State Highway No. 19 is a deposit of gravel covering 10 acres with a depth of from 3 feet to 6 feet. Five miles east of Prescott there is a deposit of red clay gravel which, in places, reaches a depth of 10 feet; this is easily accessible by a county road. Still another bed of good road-making material is located about 9 miles east of Prescott just off of Highway No. 24. The depth is up to 9 feet and the deposit covers approximately 30 acres.

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The record of the survey as regards to dug wells also presents valuable information. Of the 128 dug wells thus far examined, the depth has been found to be as little as 5 feet in some instances, and as much as 70 feet in others, the shallower wells being in the northwestern corner of the county. Dug wells, ranging in depth from 10 to 36 feet, have capacities ranging between 300 and 1,500 gallons a day. One such well of 30 feet, however, maintains a capacity flow of 2,400 gallons a day throughout the year; perhaps more unusual for the vicinity is the 22-foot well near Boughton which has a capacity of 4,000 gallons every 24 hours. The depth of the well does not govern the capacity of the water, as numerous wells of 35-foot depth and less are producing more water than those of twice the depth.

Springs are not of frequent occurrence in Nevada county, only seven having been located by the survey thus far. One of these in the northwestern part of the county is somewhat outstanding because of its iron content and its flow of 5,000 gallons daily. Other springs investigated have a recorded capacity of from 250 gallons daily up.

The citizens of Nevada county are manifesting considerable interest in the progress of the Mineral Survey and have given cooperation in numerous ways. The offices of Mr. Weaver are in the Chamber of Commerce building, with which organization he works in close contact in procuring information on the minerals and clays of the county.

The state-wide work of the Mineral Survey is under the direction of Robert C. Beckstrom, State Supervisor, who completed a similar survey for Oklahoma, and R. E. Vandruff, Technical Supervisor. The data collected will be eventually issued as a county bulletin by the Arkansas Geological Survey of which George C. Branner is the director.

MINERAL SURVEY IN NEVADA COUNTY REPORTS PROGRESS IN SEVERAL FIELDS

Prescott Daily—1-21-39
Survey Has Covered 125 Square Miles of the Allotted 536 in
This County Many Interesting Mineral
Facts Disclosed

The Mineral Survey now in progress in Nevada County has brought forth some interesting facts. Of the 520 square miles area of Nevada County, 536 are to be covered by the Survey now being conducted by WPA under the sponsorship of the State Geological Survey. E. H. Weaver, former County Judge is the County supervisor of the project.

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