

GENERAL CORRESPONDENCE

YEAR(S):





STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION P.O. Box 968, Santa Fe, New Mexico 87503 (505) 827-5271

Thomas E. Baca, M.P.H., Director

MEMORANDUM

October 28, 1980

TO: Mr. Joe D. Ramey, Director, Oil Conservation Division

FROM: David G. Boyer, Geohydrologist, Water Pollution Control Bureau

SUBJECT: OIL FIELD BRINE CONTAMINATION

Enclosed for your information are copies of recent correspondence regarding a brine contamination incident in the Tatum-Bronco area.

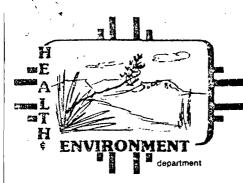
Enclosures

DGB/js

Bruce King GOVERNOR

George S. Goldstein, Ph.D. SECRETARY

Larry J. Gordon, M.S., M.P.H. DEPUTY SECRETARY



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October 28, 1980

Ms. Judy Howard, Legal Intern NATIONAL WILDLIFE FEDERATION National Resource Clinic Fleming Law Building Boulder, Colorado 80309

Dear Ms. Howard:

Your letter of October 14, 1980 to Dr. George Goldstein regarding instances of brine contamination that were reported in the New Mexico Surface Impoundment Assessment (SIA) has been referred to me for reply. A search of the Environmental Improvement Division (EID) files plus communication with other State agencies has produced the information you requested.

The source of the information on Mr. Robert Field's well was a 1973 report on brine contamination prepared by EID staff and entitled "Report to the Water Quality Control Commission on Brine and Phenolic Contamination of Domestic Wells in Lea County". This report was included as Appendix G of the SIA study, which had been previously sent to your office. Other sections of the SIA report which discuss current brine disposal practices and abandoned brine impoundments include pages 7-11 through 7-12, and Appendix F.

A search of our files and communication with the New Mexico Water Resources Division's Roswell District Office located the map showing the placement of observation wells that were drilled on Mr. Field's property to determine the extent of the brine contamination. Information on water quality at each of the wells is also shown on the map. Attached are a copy of this map, and to assist in site location, a copy of a 7-1/2 minute U.S.G.S. topographic map showing the area.

As discussed on pages 1 and 5 of the 1973 brine contamination report, surface disposal of oil field brines has been generally prohibited in New Mexico since 1969, but continuing pollution from earlier disposal practices remains highly probable. Development of a long-term strategy for identification and clean-up of the Lea County area affected by these past practices as recommended in the brine report was not undertaken either by the EID or jointly by the EID with other State agencies. Given the estimated number of abandoned pits (approximately 2,000), development and implementation of a rehabilitation methodology would be costly and require large-scale funding that is not currently available. Page 2 Letter to Ms. Judy Howard, Legal Intern NATIONAL WILDLIFE FEDERATION October 28, 1980

The above information represents the extent of EID knowledge of oil field brine contamination problems experienced by Mr. Field. By State Statute (New Mexico Oil and Gas Act, 70-2-1 through 70-2-38, NMSA, 1978), the Oil Conservation Division of the Energy and Minerals Department is responsible for activities, including disposal of brines, related to oil and gas production. If you have further questions regarding these oil and gas activities, please refer them to the Oil Conservation Division, Mr. Joe D. Ramey, Director.

Sincerely,

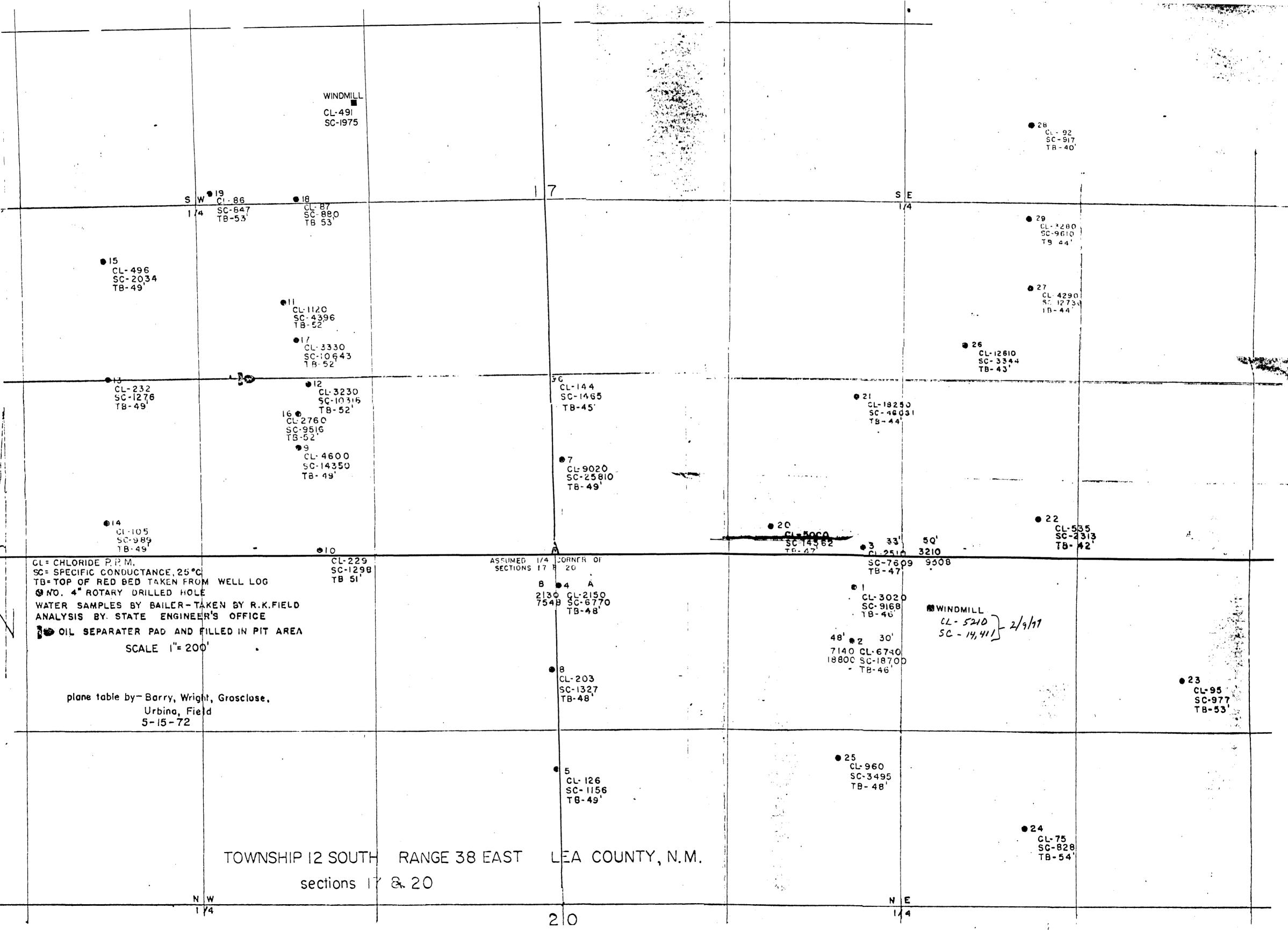
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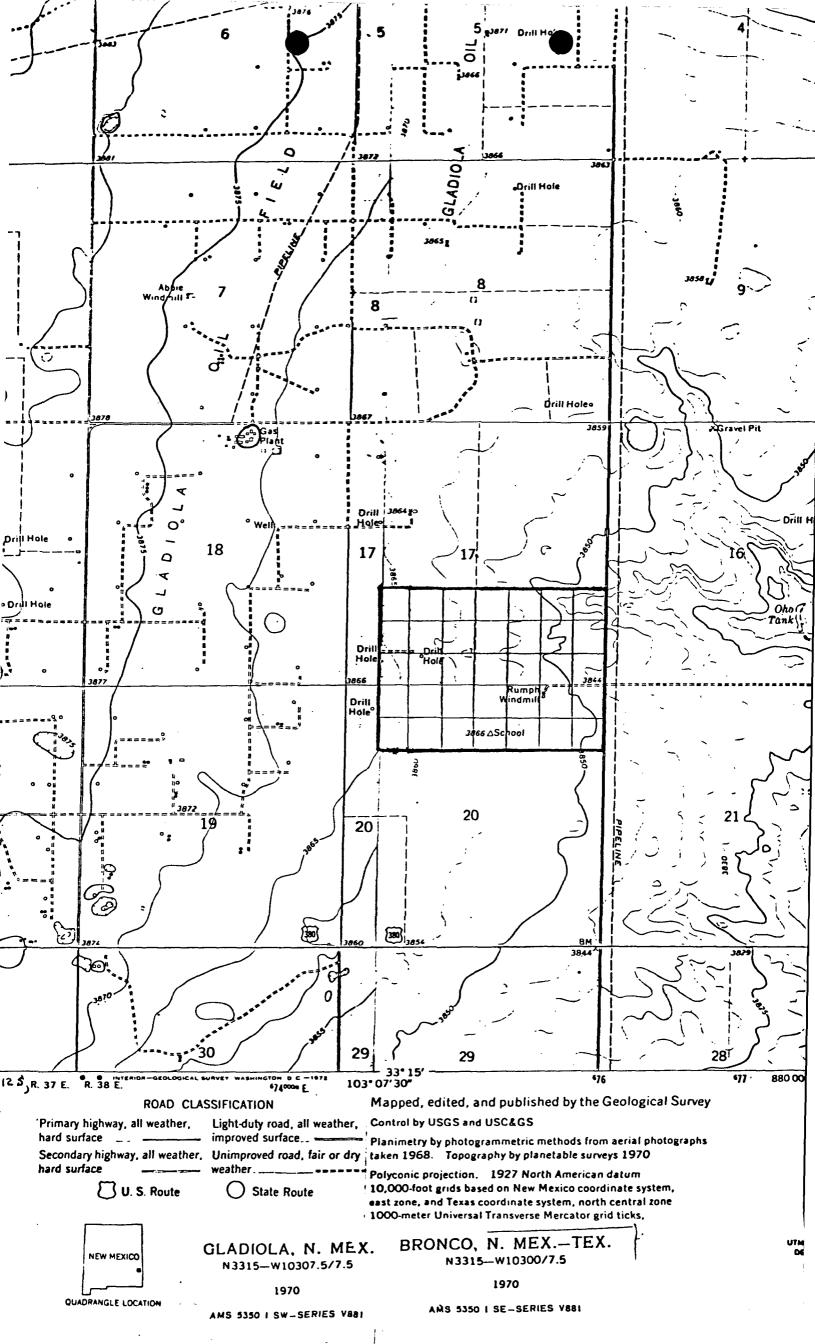
DAVID G. BOYER /// Water Resource Specialist Ground Water Section Water Pollution Control Bureau

DGB/js

Enclosures

- cc: Dr. George S. Goldstein, Secretary for Health and Environment (w/o Enc) Mr. Joe D. Ramey, Director, Oil Conservation Division, Energy and Minerals Department (w/Enc)
 - Mr. J. Wright, New Mexico Water Resources Division, Natural Resources Department, Roswell District Office (w/o Enc)









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ROBERT J. GOLTEN

NATURAL RESOURCE CLINIC FLEMING LAW BUILDING BOULDER. COLORADO 80309

LUKE DANIELSON

October 14, 1980

George S. Goldstein, Secretary Department of Health and Environment State of New Mexico Post Office Box 968 Santa Fe, New Mexico 87503

Dear Mr. Goldstein:

I am interested in receiving the results of any tests which your department has conducted on the brine levels of Robert Field's wells. I found Mr. Field's name in the New Mexico Surface Impoundment Assessment of February, 1980. The assessment was a report to the U.S. Environmental Protection Agency under EPA grant F-006213-01-0, and was prepared by David G. Boyer, Dennis McQuillan, and Maxine S. Goad. On page 6-9 of the assessment, at the top of the page, Robert Field is identified as the owner of a suspected contaminated well. I have since spoken with Mr. Field, and he informed me that the Water Pollution Control Bureau of the New Mexico Environmental Improvement Division of your Department had conducted tests on the brine content of his well water. I request the results of those tests, as well as any information you may have about the tests, on behalf of the New Mexico Chapter of the National Wildlife Federation and pursuant to N.M.S.A. section 14-2-1 (1978).

Thank you very much.

Very truly yours,

Judy Howard, Legal Intern // JH:ejr