



BRUCE KING
GOVERNOR

State of New Mexico
ENVIRONMENT DEPARTMENT

Harold Runnels Building
1190 St. Francis Drive
Santa Fe, New Mexico 87503

GRC 91

JUDITH M. ESPINOSA
SECRETARY

RON CURRY
DEPUTY SECRETARY

March 26, 1991

Mr. Claud Rosendale
Environmental Manager
Giant Refining Company
Route 3, Box 7
Gallup, New Mexico 87301

RE: **Seasonal hydraulic gradient trends**
NMD000333211

Dear Mr. Rosendale:

On March 20, 1991 Steve Alexander of the New Mexico Environment Department (NMED) contacted you concerning the March, 1991 CME conducted at the Giant Refining Company's (GRC) Ciniza Refinery located seventeen miles east of Gallup, New Mexico. This letter is to confirm the content of that phone conversation.

NMED requested that GRC conduct an evaluation to determine whether seasonal trends exist in the hydraulic gradients of either the Sonsela or Ciniza sand aquifers underlying the refinery site. NMED requests that GRC make this evaluation based on water elevation data from the past three years.

Pursuant to §265.93(f), the analysis should determine the seasonal potentiometric gradient of the two formations, and whether any significant changes in gradient occur.

GRC must provide NMED with vertical and horizontal well survey data, certified by a licensed surveyor, for all RCRA wells. This data must include well head locations surveyed for horizontal ("X-Y") coordinates using the New Mexico Coordinate System and vertical survey data accurate to 0.01 inch. For the existing RCRA wells, NMED recommends that GRC file a notch in the lip of the protective casing stickup and survey to this mark. All RCRA wells installed in the future should also be surveyed using the New Mexico Coordinate System. All future RCRA wells must have a notch in the casing stickup which has been surveyed for vertical height to an accuracy of 0.01 inch.

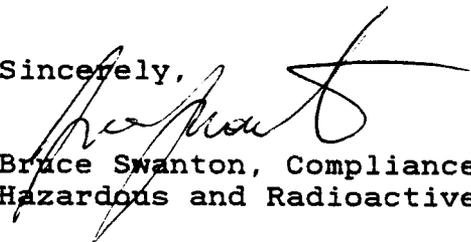
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In order to provide adequate time for completion of your analysis and surveying we request submittal of the information within ninety (90) days of receipt of this letter.

If you have any questions regarding these matters, please contact Steve Alexander of my staff at (505) 827-2929.

Sincerely,



Bruce Swanton, Compliance & Hydrogeology Supervisor
Hazardous and Radioactive Waste Bureau

BAS/sa

cc: Benito Garcia, HRWB
Tracy Hughes, Office of General Counsel
Steve Alexander, HRWB