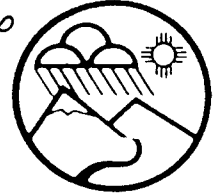




GARY E. JOHNSON
GOVERNOR

State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous & Radioactive Materials Bureau
2044 Galisteo
P.O. Box 26110
Santa Fe, New Mexico 87502
(505) 827-1557
Fax (505) 827-1544

SRCC 96



MARK E. WEIDLER
SECRETARY

EDGAR T. THORNTON, III
DEPUTY SECRETARY

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

June 28, 1996

Mr. Edward L. Horst, Environmental Manager
Giant Refining Company-Ciniza
Route 3, Box 7
Gallup, New Mexico 87301

Dear Mr. Horst:

RE: Approval of request by Giant to plug and abandon Observation Well 5.

The New Mexico Environment Department (NMED) Hazardous and Radioactive Materials Bureau (HRMB) is in receipt of the letter dated May 13, 1996 from Giant Refining Company-Ciniza (Giant). This letter requests permission to plug and abandon Observation Well (OW)-5.

After administrative and technical review of the request, HRMB agrees that the well should be plugged because it is a potential avenue for contaminant migration to groundwater. HRMB also believes plugging and abandoning the well will not impact any required groundwater monitoring activities at the Ciniza facility.

HRMB hereby approves Giant's request to plug and abandon OW-5. Because this well is not required by Giant's Operating Permit, no Permit Modifications will be necessary.

If you have any questions please call Mr. Michael Chacón of my staff at (505) 827-1561.

Sincerely,

Barbara Hoditschek, RCRA Permits Program Manager

cc: Benito J. Garcia, Chief, HRMB
David Neleigh, EPA (6PD-N)
Bob Sweeney, RCRA TCP Facility Manager
File - Giant Red 96 and Reading

NEW MEXICO ENVIRONMENT DEPARTMENT
Hazardous and Radioactive Materials Bureau

MEMORANDUM

Date: June 4, 1996

To: Michael Chacón, RCRA Permitting Program

Thru: Ron Kern, RCRA Technical Compliance Program Manager *RK*

From: Bob Sweeney, RCRA Technical Compliance Program *BS*

Re: Giant Refining Company request to plug and abandon
Observation Well #5 at the Ciniza facility.

The RCRA Technical Compliance Program (TCP) has reviewed Giant Refining Company's (GRC) May 13, 1996 request to plug and abandon Observation Well #5 (OW-5) at the Ciniza facility. TCP agrees with GRC that the well should be plugged and abandoned.

OW-5 was one of seventeen observation wells installed in late 1980 by Shell Oil Company (owners of the refinery at that time) as part of a facility-wide geology and hydrology study. OW-5 was drilled to a total depth of 92 feet on November 12, 1980. A sandstone, thought to be the Sonsela, was encountered from 82 feet to total depth and some thin beds of sandstone, probably the Ciniza, were seen at shallower depths. The boring collapsed from 25.3 feet to total depth before casing could be set and 4 inch perforated casing was installed from 0 to 25.3 feet. Gravel was placed from 17.4 to 25.3 feet and the annular space from 0 to 17.4 feet was sealed with a cement-bentonite slurry. Finally, a protective steel casing, with locking cap, was cemented in place over the top of the PVC. Depth to water was measured at 16.2 feet in January 1981 but no groundwater samples were collected due to the well's improper completion. OW-5 is located approximately 500 feet southeast (upgradient) of the Land Treatment Area and should be plugged because it is a potential avenue for contaminant migration to groundwater.



Lon 1/4/96
Bob —

May 13, 1996

Mr. Benito J. Garcia
Bureau Chief
Hazardous and Radioactive Materials Bureau
New Mexico Environment Department
2044 Galisteo
P. O. Box 26110
Santa Fe, New Mexico 87502

Route 3, Box 7
Gallup, New Mexico
87301

505
722-3833

Dear Mr. Garcia:

SUBJECT: REQUEST TO PLUG AND ABANDON OW-5.

Giant Refining Company is requesting permission to plug and abandon Observation Well (OW)-5. In reviewing all available information and physically inspecting this well, it has been found to have a perforated casing from above ground level to approximately 25 feet deep. Giant has determined plugging and abandoning OW-5 will not impact any required groundwater monitoring activities at its Ciniza Facility.

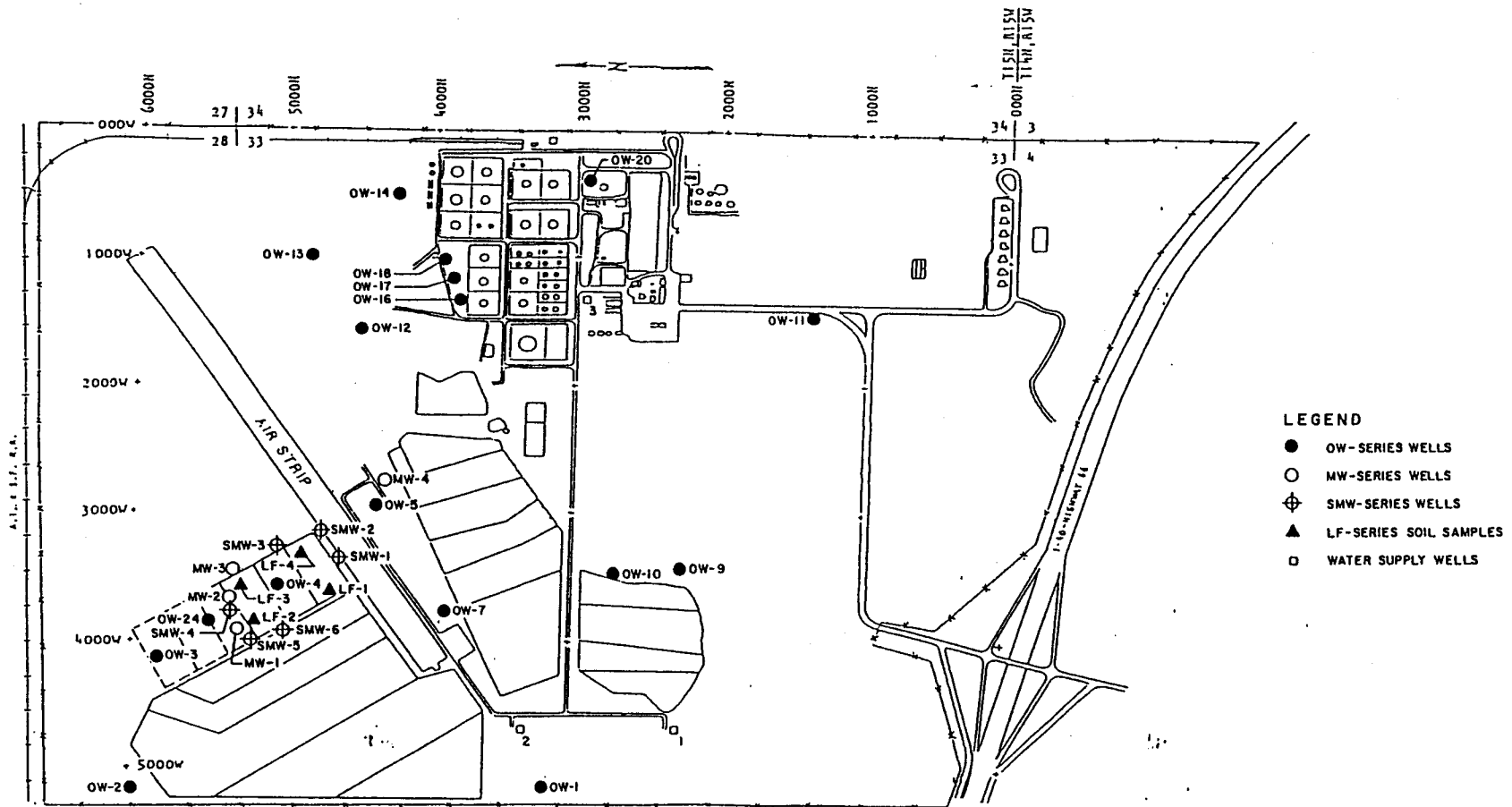
Attached is a copy of a map showing the location of OW-5 and other wells that are presently being monitored by Giant. By plugging and abandoning OW-5, groundwater monitoring will not be jeopardized since there is still Monitoring Well (MW)-4 in the same area.

Giant feel that this well, if left "operational", offers an avenue for surface water to migrate downward in to the lower zones, thus impacting any results and reports that would use analytical information associated with OW-5.

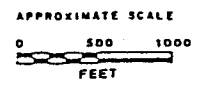
The New Mexico Oil Conservation Division is also being contacted for this same purpose. If there are any questions about this matter please contact me at (505)722-0227.

Edward L. Horst
Environmental Manager
Giant Refining Company
CINIZA Refinery

cc: Pat Sanchez, Petroleum Engineer, NMOCD
David Pavlich, Health, Safety and Environmental Manager, Giant Refining Co.
Kim Bullerdick, Corporate Counsel, Giant Industries Arizona, Inc.
Barbara Hoditscheck, Program Manager-Permitting, NMED
Ron Kern, Program Manager-Technical, NMED
Coby Muckelroy, Program Manager-Enforcement, NMED



- LEGEND**
- OW-SERIES WELLS
 - MW-SERIES WELLS
 - ⊕ SMW-SERIES WELLS
 - ▲ LF-SERIES SOIL SAMPLES
 - WATER SUPPLY WELLS



MAP ADAPTED FROM REFINERY SITE MAP, DELTA E ENGINEERING, LTD.,
11-16-84. BASE MAP REFERENCE: MASTER PLAN, CINIZA REFINERY,
GALLUP, NEW MEXICO, SOUTHWESTERN ENGINEERING COMPANY, 21-07-122-EP,
REVISION 8-6-71. EVAPORATION POND BOUNDARIES ARE ESTIMATED.

33 | 34
4 | 3 SECTION CORNER

FIGURE 4-2
APPROXIMATE WELL AND
SOIL SAMPLE LOCATIONS
GIANT CINIZA REFINERY
RCRA FACILITY ASSESSMENT



May 14, 1996

Mr. Patricio W. Sanchez
Petroleum Engineer
New Mexico Energy, Minerals and Natrual Resources Department
Oil Conservation division
2040 South Pacheco
Santa Fe, New Mexico 87505

Route 3, Box 7
Gallup, New Mexico
87301

505
722-3833

Dear Mr. Garcia:

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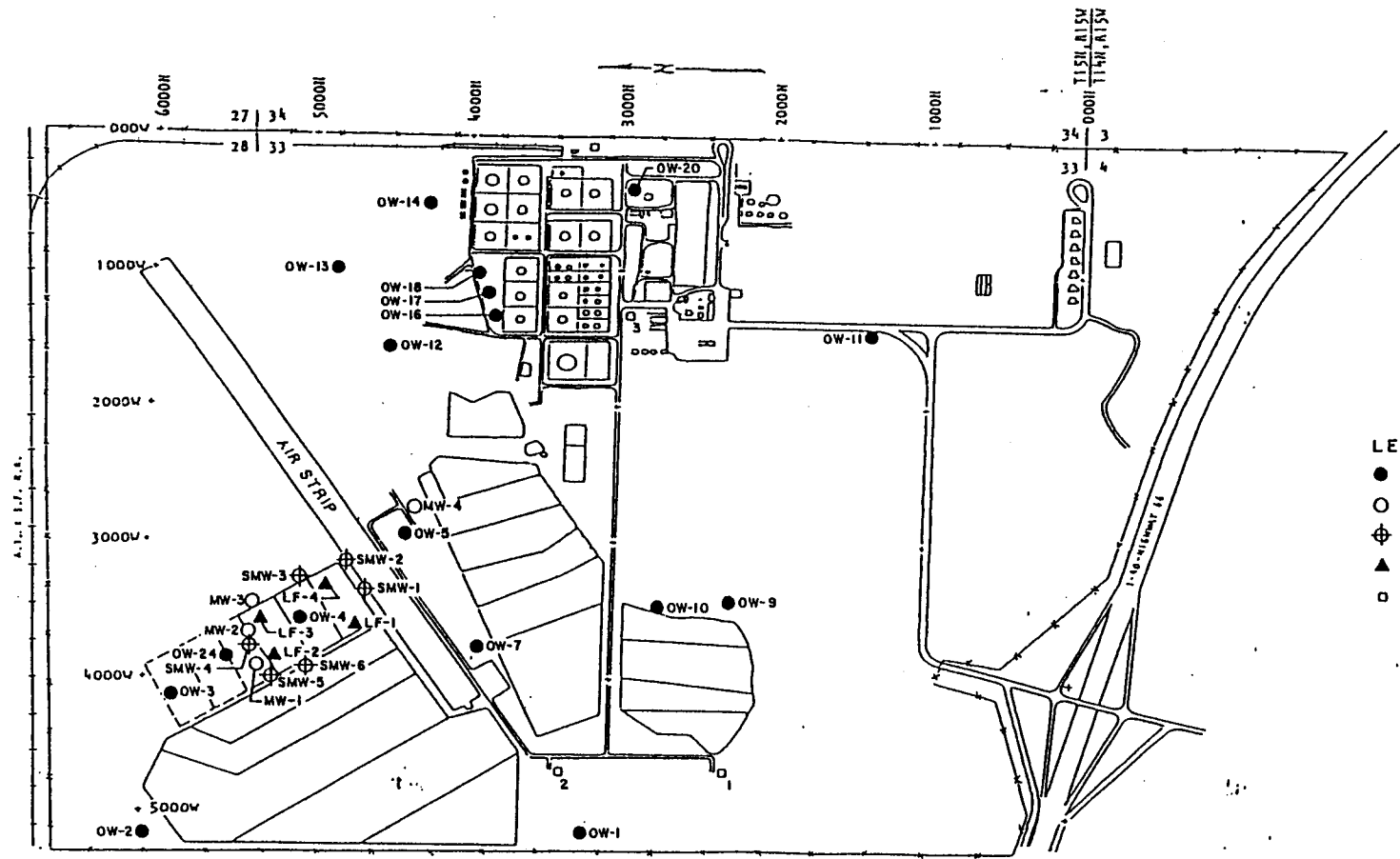
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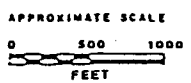
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Edward L. Horst
Environmental Manager
Giant Refining Company
CINIZA Refinery

cc: Benito Garcia, Bureau Chief, NMED
Barbara Hoditscheck, Program Manager-Permitting, NMED
Ron Kern, Program Manager-Technical, NMED
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- OW-SERIES WELLS
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MAP ADAPTED FROM REFINERY SITE MAP, DELTA E ENGINEERING, LTD., 11-16-84. BASE MAP REFERENCE: MASTER PLAN, CINIZA REFINERY, GALLUP, NEW MEXICO, SOUTHWESTERN ENGINEERING COMPANY, 21-01-112-17, REVISION 1-6-71. EVAPORATION POND BOUNDARIES ARE ESTIMATED.

SECTION CORNER
33 34
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FIGURE 4-2
APPROXIMATE WELL AND
SOIL SAMPLE LOCATIONS
GIANT CINIZA REFINERY
RCRA FACILITY ASSESSMENT