

3R - 77

APPROVALS

YEAR(S):

1999 - 1990



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

March 19, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. Z-274-520-635

Mr. Paul Weissenborn
Maverik Country Stores, Inc.
880 W. Center St.
Salt Lake City, Utah 84054

**RE: ANNUAL REPORT
FORMER CARIBOU REFINERY
KIRTLAND, NEW MEXICO**

Dear Mr. Weissenborn:

The New Mexico Oil Conservation Division has reviewed Maverik Country Stores, Inc. (Maverik) February 9, 1999 "1998 ANNUAL GROUNDWATER MONITORING REPORT, FORMER MAVERIK REFINERY TANK FARM, KIRTLAND, NEW MEXICO" which was submitted on behalf of Maverik by their consultant ThermoRetec. This document contains the results of Maverik's 1998 ground water quality monitoring at the former Caribou/Maverik Refinery. The document also contains Maverik's proposal to replace a recently destroyed monitoring well and to modify the ground water quality sampling program from semiannual monitoring to annual monitoring.

The OCD **approves** of the above referenced proposals with the following conditions:

1. The replacement well for monitor well MW-21 will be constructed as follows:
 - a. At least 15 feet of well screen will be placed across the water table interface with 5 feet of the well screen above the water table and 10 feet of the well screen below the water table.
 - b. An appropriately sized gravel pack will be set in the annulus around the well screen from the bottom of the hole to 2-3 feet above the top of the well screen.
 - c. A 2-3 foot hydrated bentonite plug will be placed above the gravel pack.
 - d. The remainder of the hole will be grouted to the surface with cement containing 3-5% bentonite.

Mr. Paul Weissenborn
March 19, 1999
Page 2

- e. A concrete pad and locking well cover will be placed at the surface.
 - f. The well will be developed after construction using EPA approved procedures.
2. In addition to the monitor wells proposed to be sampled, the annual monitoring event will include ground water sampling of monitor wells MW-16, MW-17, MW-18, and MW-22.
 3. The as built well construction details of the replacement well for monitor well MW-21 will be included in the next annual report.

Please be advised that OCD approval does not relieve Maverik of liability if the plan fails to adequately remediate or monitor contamination resulting from Maverik's activities or if contamination exists which is outside the scope of the plan. OCD approval also does not relieve Maverik of responsibility for compliance with other federal, state or local laws and regulations.

If you have any questions, please contact me at (505) 827-7154.

Sincerely,



William C. Olson
Hydrologist
Environmental Bureau

xc: Denny Foust, OCD Aztec District Office
Bill Hendrix, ThermoRetec

Z 274 520 635

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STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

February 19, 1997

CERTIFIED MAIL

RETURN RECEIPT NO. P-269-269-258

Mr. Paul Weissenborn
Maverik Country Stores, Inc.
880 West Center St.
North Salt Lake, Utah 84054

**RE: GROUND WATER REMEDIATION AND MONITORING
MAVERIK REFINERY AND TANK FARM
KIRTLAND, NEW MEXICO**

Dear Mr Call:

The New Mexico Oil Conservation Division (OCD) has reviewed Maverik Country Stores, Inc. October 31, 1996 "ANNUAL REQUIREMENTS, FORMER MAVERIK REFINERY, KIRTLAND, NM" which was submitted on behalf of Maverik by their consultant TriTechnics Corporation. This document contains Maverik's recommendations to cease fertilizer additions inside the site slurry wall and to continue the current monitoring program, but change the frequency of reporting the monitoring data to an annual basis.

The OCD approves of the recommendations contained in the above referenced document with the following conditions:

1. The annual report will be submitted to the OCD by March 1 of each respective year.

Please be advised that OCD approval does not limit Maverik to the work proposed if the actions fail to effectively remediate or monitor contamination related to Maverik's activities. In addition, OCD approval does not relieve Maverik of liability which may be actionable under any other federal, state or local laws and/or regulations.

If you have any questions please contact me at (505) 827-7154.

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc: Denny Foust, OCD Aztec Office
Bill Hendrix, TriTechnics Corporation

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STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

May 17, 1993

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SANTA FE, NEW MEXICO 87504
(505) 827-5800

CERTIFIED MAIL
RETURN RECEIPT NO. P-667-242-343

William Call
Maverik Country Stores, Inc.
P.O. Box 457
Afton, WY 83110

**RE: GROUND WATER QUALITY MONITORING REPORT
MAVERIK REFINERY AND TANK FARM
KIRTLAND, NEW MEXICO**

Dear Mr Call:

The New Mexico Oil Conservation Division (OCD) has reviewed the data and recommendations in Maverik's April 26, 1993 "REPORT, GROUND WATER QUALITY MONITORING RESULTS, MAVERIK REFINERY TANK FARM, KIRTLAND, NEW MEXICO, MAVERIK COUNTRY STORES, INC." submitted on behalf of Maverik Country Stores, Inc. by Maverik's consultant GeoWest Golden, Inc.

The recommendations contained in the above referenced report are hereby approved with the following conditions:

1. Due to the presence of dissolved phase hydrocarbons in monitor well MW-18 outside the slurry wall, ground water from monitor wells MW-9, 13, 14, 15 and 16 will be sampled on an annual basis. Sample will be analyzed for concentrations of Benzene, Toluene, Ethylbenzene, Xylene and 1,2 Dichloroethane as well as field parameters such as specific conductivity and pH.
2. Maverik will add nutrients to the contaminated area within the slurry wall on an annual basis to enhance insitu biodegradation of the remaining hydrocarbons.

Mr. William Call
May 17, 1993
Page 2

Please be advised that OCD approval does not limit you to the work proposed if the remediation fails to effectively mitigate environmental contaminants related to Maverik's activities. In addition, OCD approval does not relieve you of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have any questions please contact me at (505) 827-5885.

Sincerely,

A handwritten signature in cursive script that reads "Will C. Olson". The signature is written in dark ink and is positioned below the word "Sincerely,".

William C. Olson
Hydrogeologist
Environmental Bureau

xc: OCD Aztec Office
Peter F. Olsen, GeoWest Golden, Inc.



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

May 14, 1992

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SANTA FE, NEW MEXICO 87504
(505) 827-5800

CERTIFIED MAIL
RETURN RECEIPT NO. P-690-155-064

William Call
Maverik Country Stores, Inc.
P.O. Box 457
Afton, WY 83110

**RE: GROUND WATER QUALITY MONITORING REPORT
MAVERIK REFINERY AND TANK FARM
KIRTLAND, NEW MEXICO**

Dear Mr Call:

The New Mexico Oil Conservation Division (OCD) has reviewed the data and recommendations in the "REPORT, GROUND WATER QUALITY MONITORING, JANUARY, 1992, MAVERIK REFINERY TANK FARM, KIRTLAND, NEW MEXICO" submitted on behalf of Maverik Country Stores, Inc. by Maverik's consultant GeoWest Golden, Inc.

The OCD approves of the recommendations contained in the above referenced report with the following conditions:

1. Maverik will install a replacement monitor well for MW-18.
2. Monitor wells will be constructed in the same manner as those previously approved by OCD.
3. OCD will defer comment on eliminating MW-9, 14 and 16 from quarterly sampling pending a review of the second and third quarter 1992 analytical results of these wells.
4. Maverik will notify OCD at least one week prior to monitor well/piezometer installation and quarterly sampling such that OCD can arrange to have a representative present.

Mr. William Call
May 14, 1992
Page 2

Please be advised that OCD approval does not limit you to the work proposed if the remediation fails to effectively mitigate environmental damage related to Maverik's activities. In addition, OCD approval does not relieve you of liability which may be actionable under any other laws and/or regulations.

If you have any questions please contact me at (505) 827-5885.

Sincerely,



William C. Olson
Hydrogeologist
Environmental Bureau

xc: Denny Foust, OCD Aztec Office
Peter F. Olsen, GeoWest Golden, Inc

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STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

March 21, 1991

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CERTIFIED MAIL
RETURN RECEIPT NO. P-106-675-348

William Call
Maverik Country Stores, Inc.
P.O. Box 457
Afton, WY 83110

**RE: SITE REMEDIATION
MAVERIK REFINERY AND TANK FARM
KIRTLAND, NEW MEXICO**

Dear Mr Call:

The New Mexico Oil Conservation Division (OCD) has reviewed the February 13, 1991 correspondence submitted on behalf of Maverik Country Stores, Inc. by Maverik's consultant Dames and Moore.

The above correspondence stated that Maverik will complete removal of additional petroleum contaminated soils, as required in OCD's January 23, 1991 approval letter. However, Maverik requested that the activity be postponed until the late summer or early fall of 1991 in order to determine the extent of the effect that these areas have on ground water.

The OCD approves of this request but wants you to be aware that the OCD considers the remaining petroleum contaminated soils at the site as uncontrolled potential source areas for leaching of petroleum contaminants. Because of the shallow depth of ground water, leaching can result in direct contamination of underlying ground water. For these reasons OCD requests that Maverik initiate a remedial action for the remaining contaminated soils within six months.

If you have any questions please contact me at (505) 827-5885.

Sincerely,

A handwritten signature in cursive script that reads "William C. Olson".

William C. Olson
Hydrogeologist

xc: David E. Stice, Dames and Moore
OCD Aztec, District Office



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

June 15, 1990

CERTIFIED MAIL
RETURN RECEIPT NO. P-918-402-329

Terry D. Vandell
Dames and Moore
127 South 500 East, Suite 300
Salt Lake City, Utah 84102

**RE: SLURRY WALL CONSTRUCTION AT THE MAVERIK REFINERY AND TANK FARM
KIRTLAND, NEW MEXICO**

Dear Ms. Vandell:

The New Mexico Oil Conservation Division (OCD) has completed review of the May 30, 1990 "SCOPE OF WORK, TECHNICAL SPECIFICATIONS AND DRAWINGS" for the slurry wall and the June 7, 1990 "ADDITIONAL INFORMATION FOR SLURRY WALL DESIGN AND LOCATION AT MAVERIK COUNTRY STORES, INC. TANK FARM, KIRTLAND, NEW MEXICO".

The OCD approves of the installation of a slurry wall in the tank farm area, as presented in the above documents, to contain highly contaminated ground water prior to initiation of a ground water remediation program.

OCD approval of the slurry wall for containment of highly contaminated ground water does not constitute approval of the remediation system proposed. The additional information requested in OCD's April 20, 1990 correspondence with Dames and Moore still must be submitted before OCD can complete a review of the proposed remediation system.

OCD approval of the slurry wall system does not limit remediation to the area contained by the slurry wall if other areas of contaminated ground water related to the refinery activities outside of the slurry wall exceed New Mexico Water Quality Control Commission water quality standards. In addition, other contaminated areas such as the sludge areas identified in the June 1988 "PHASE II SUBSURFACE SOIL AND SOLID WASTE CONTAMINANT

EVALUATION, MAVERIK REFINERY AND TANK FARM, KIRTLAND, NEW MEXICO FOR MAVERIK COUNTRY STORES, INC" also need to be addressed in the site remediation plan.

Please be advised that OCD approval of the slurry wall installation does not relieve you of liability actionable under any other laws and/or regulations. If you have any questions please call me at (505) 827-5885.

Sincerely,



William C. Olson
Hydrogeologist

WCO

xc: William Call, Maverik Country Stores, Inc.
William J. Lemay, OCD Director
Frank Chavez, OCD Aztec District Office
Dave Tomko, EID Farmington