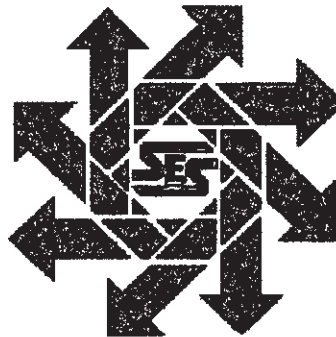


REMEMENDIATION & CLEAN UP WORK PLAN

**Vivian Battery
Remediation/Cleanup Work Plan
Section 30, T22S, R38E
Lea County, New Mexico**



RECEIVED

MAY 15 2000

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

May 10, 2000

Prepared for:

**Chevron USA
P.O. Box 1949
Eunice, New Mexico 88231**

By

***Safety & Environmental Solutions, Inc.
703 E. Clinton Suite 103
Hobbs, New Mexico 88240
(505) 397-0510***

Vivian Battery Work Plan
May 10, 2000

Chevron USA

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Vivian Battery Work Plan
May 10, 2000

Chevron USA

I. Purpose

The purpose of this work plan is to propose a plan for the restoration of the historical hydrocarbon contamination at the Vivian Lease tank battery. The Subject site is located in Section 30, T22S, R38E in Lea County, New Mexico. Tom and Winnie Kennann own the land.

This plan will allow closure in a manner that will protect the population, environment and groundwater of the area surrounding the subject location. The battery site is situated on a relatively level site. (See Vicinity Map)

II. Background

The subject site contains hydrocarbon stained soils that have accumulated over the years. The soils are stained inside and outside the battery fence line and do not appear to be of recent origin.

In May 2000, Chevron USA engaged the services of Safety and Environmental Solutions, Inc. to complete all necessary sampling, testing and remediation of the soils at the leak site to approved New Mexico Oil Conservation Division guidelines.

III. Contaminant and Size of Leak

The contaminated area outside the fence is approximately 105' in length and 30' wide at the widest point. The stains run in a southerly direction from the south fence. The stained soils are from the battery and therefore, knowledge of process indicated that the material will be exempt oilfield waste. No evidence of other contaminants was observed.

IV. Vertical and Horizontal Extent of Contamination

The vertical and horizontal extent of the contamination will be determined by excavation at the time of cleanup. All samples will be collected with strict adherence to the SOPs found in **Environmental Protection Agency, 1984, Characterization of Hazardous Waste Site - A Methods Manual: Vol II**. These samples will be representative of the contamination levels and will be analyzed for Total Petroleum Hydrocarbons (TPH) content. The results will be compared to the contaminate levels specified in **"Guidelines for Remediation of Leaks, Spills and Releases" New Mexico Oil Conservation Division - August 13, 1993**.

Vivian Battery Work Plan
May 10, 2000

Chevron USA

V. Groundwater

According to the New Mexico State Engineer's office the nearest water well is located approximately 1500' northwest of the subject site in the SE/4 of the SW/4 of Section 19. The water level at that well is 101.02'.

VI. Action Plan

Site Characterization

Distance to Surface Water/Waterways	0 points
Distance to Well Head or Water Source	0 points
Depth to Ground Water	10 points

Applying the ranking criteria specified in "**Guidelines for Remediation of Leaks, Spills and Releases**" *New Mexico Oil Conservation Division* - August 13, 1993 to this site results in a cleanup level of 1000ppm TPH as approved by the New Mexico Oil Conservation Division.

Closure

The site outside the fence will be excavated both horizontally and vertically for the removal of contaminated soils. Field testing will be conducted to ensure the removal of said soils to below the stated NMOCD requirements for TPH levels. The contaminated material will be taken to Sundance Services for proper disposal. The excavation will be backfilled with clean soil purchased from the landowner. The bottom and side of the holes will be sampled at the final excavation depths. These samples will be tested for TPH with a third party laboratory for confirmation of the contamination levels present.

The Vivian Battery is still active and the stained soils inside the fence will be excavated only to a depth of approximately 12" to 18" and taken to Sundance Services for proper disposal. Clean soils purchased from the landowner will be used to backfill this excavation.

The appropriate reports will be filed with the NMOCD in the closure report.

VII. Maps and Figures

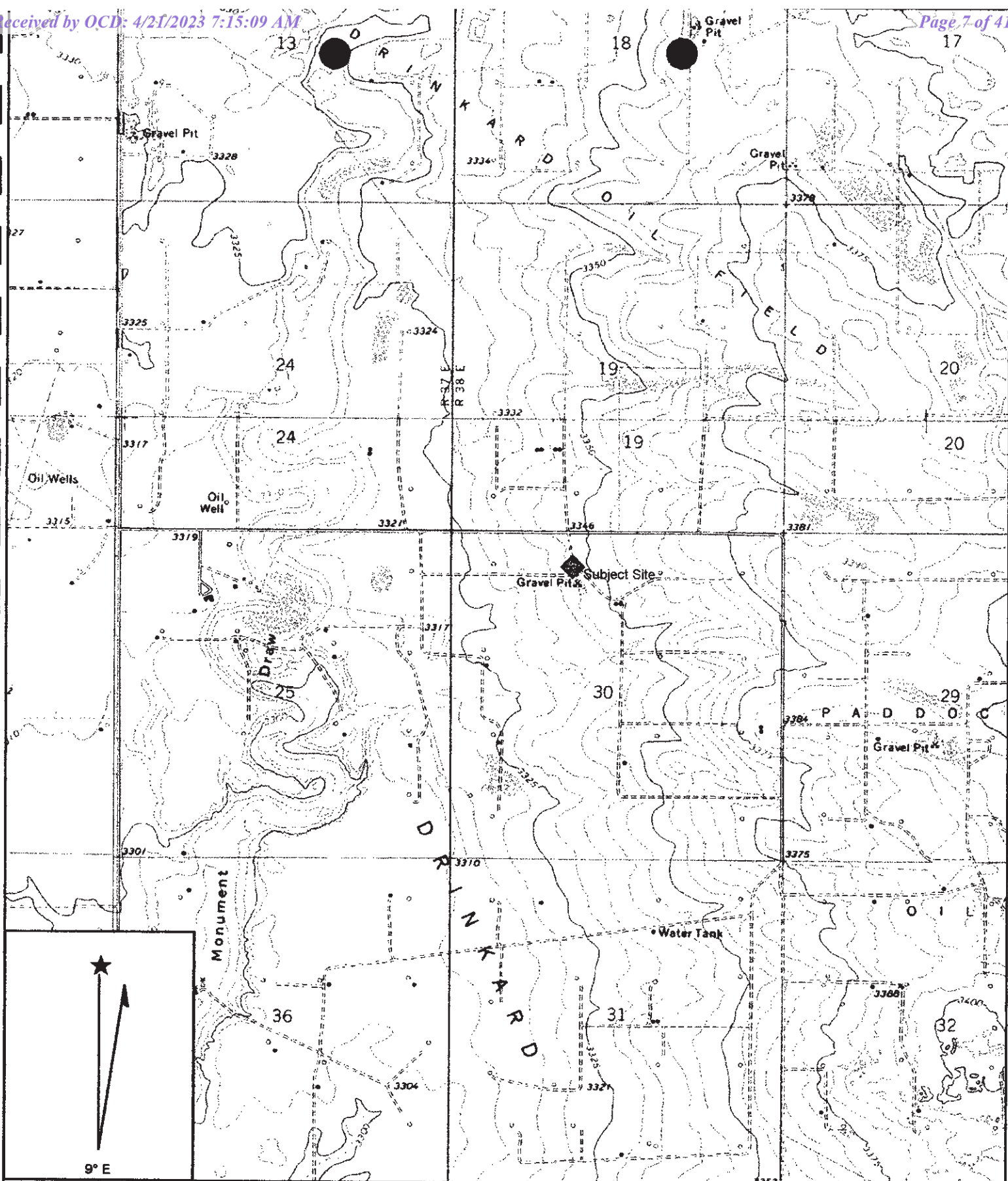
Vicinity Map
Site Plan

Vivian Battery Work Plan
May 10, 2000

Chevron USA

Figure 1

Vicinity Map



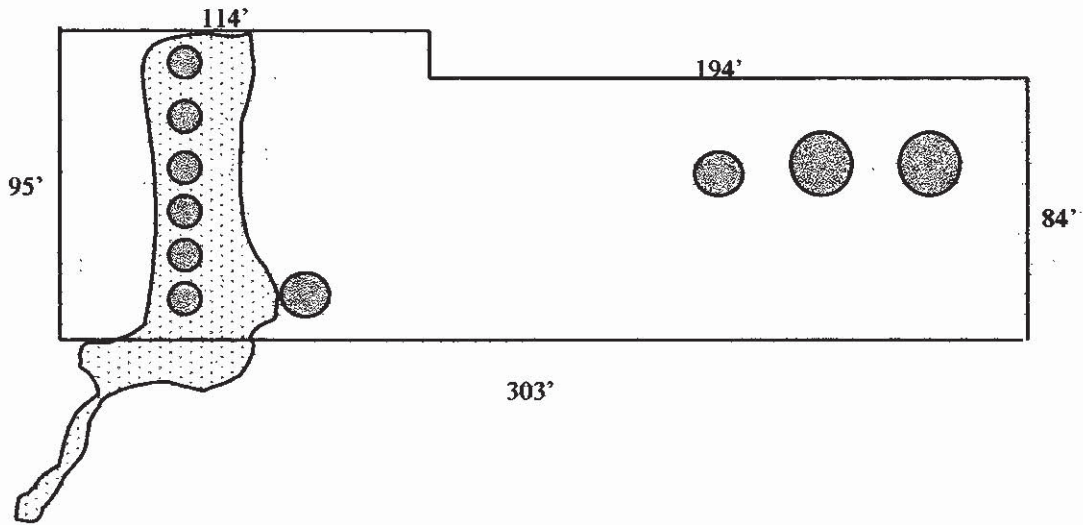
Name: EUNICE SE
 Date: 5/12/2000
 Scale: 1 inch equals 2000 feet

Location: 032° 22' 01.8" N 103° 06' 17.3" W
 Caption: Chevron USA
 Vivian Battery

***Vivian Battery Work Plan
May 10, 2000***

Chevron USA

Figure 2 Site Plan



Date 5-10-00
Scale 1" = 200'



Chevron USA

Vivian Battery
Sec 30, T22S, R38E
Lea Co., New Mexico

Safety & Environmental Solutions, Inc.

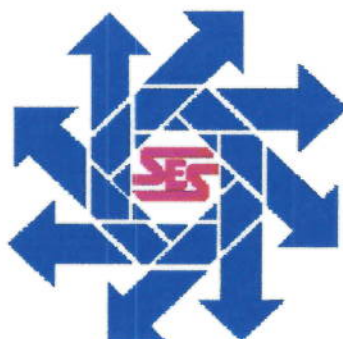


APPROVED

By Ashley Maxwell at 8:23 am, Apr 28, 2023

Vivian Battery Remediation/Cleanup Closure Report

**Section 30, T22S, R38E
Lea County, New Mexico**



May 10, 2000

Prepared for:

**Chevron USA
P.O. Box 1949
Eunice, New Mexico 88231**

By

***Safety & Environmental Solutions, Inc.
703 E. Clinton Suite 103
Hobbs, New Mexico 88240
(505) 397-0510***

Vivian Battery Closure Report
May 10, 2000

Chevron USA

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Work Performed	<u>1</u>
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Vivian Battery Closure Report
May 10, 2000

Chevron USA

I. Background

In May 2000, Chevron USA engaged the services of Safety and Environmental Solutions, Inc. to complete all necessary sampling, testing and remediation of the stained soils outside the battery site at the Vivian Battery. The subject site is located in Section 30, T22S, R38E in Lea County, New Mexico. (Exhibit A) Mr. and Mrs. Kennann own the land.

The subject site contains hydrocarbon stained soils that have accumulated over the years both inside and outside of the fenced area.

II. Contaminant and Size of Leak

The contaminated area outside the fence was approximately 105' in length and 30' wide at the widest point. The stains ran in a southerly direction from the south fence. (Exhibit B) The stained soils appear to have originated from the battery and therefore, knowledge of process indicated that the material would be exempt oilfield waste. No evidence of other contaminants was observed.

III. Work Performed

From May 17 to May 23, 2000 SESI personnel excavated the stained area outside the battery fence. All soils excavated from this area, approximately 216 cubic yards, were transported to Sundance Services, an approved OCD disposal facility, in Eunice, New Mexico. (Exhibit C)

Applying the ranking criteria specified in "**Guidelines for Remediation of Leaks, Spills and Releases**" *New Mexico Oil Conservation Division* - August 13, 1993 to this site results in a cleanup level of 1000 ppm TPH as approved by the New Mexico Oil Conservation Division. (OCD)

Once excavation of the area was completed, field testing for Total Petroleum Hydrocarbons (TPH) was conducted using a General Analysis Corporation Mega TPH Analyzer, serial #01196 calibrated on May 22, 2000. All samples were collected with strict adherence to the SOPs found in **Environmental Protection Agency, 1984, Characterization of Hazardous Waste Site - A Methods Manual: Vol II**. These samples will be representative of the contamination levels and will be analyzed for Total Petroleum Hydrocarbons (TPH) content.

**Vivian Battery Closure Report
May 10, 2000****Chevron USA**

The samples were transported under chain of custody to Cardinal Laboratories in Hobbs, New Mexico for analysis. (Exhibit D) The results of the analysis are as follows:

LABORATORY TPH RESULTS 5/25/00	
Sample ID	TPH
Bottom	2000 ppm
Sides	89.5 ppm

Laboratory analysis showed the samples were above the approved limit. On May 25, 2000 an additional three yards were removed. On June 19, 2000, composite samples were taken from sides and bottom of the excavation and transported under chain of custody to Cardinal Laboratories for analysis. (Exhibit E) The results of the analysis are as follows:

LABORATORY TPH RESULTS 6/19/00	
Sample ID	TPH
Bottom	489 ppm
Sides	<10 ppm

Excavation inside the battery area began on June 6, 2000. As requested by Chevron, the contaminated soil was excavated to a depth of 18 inches. No field or laboratory analysis was conducted on the excavated soils or the soils left in place.

A total of 294 cubic yards of contaminated material was taken to Sundance Services for proper disposal. On July 7, 2000 the excavated area inside the fence was backfilled with approximately 66 cubic yards of caliche. On July 10, 2000 the excavated outside the fence was backfilled with approximately 138 cubic yards of topsoil.

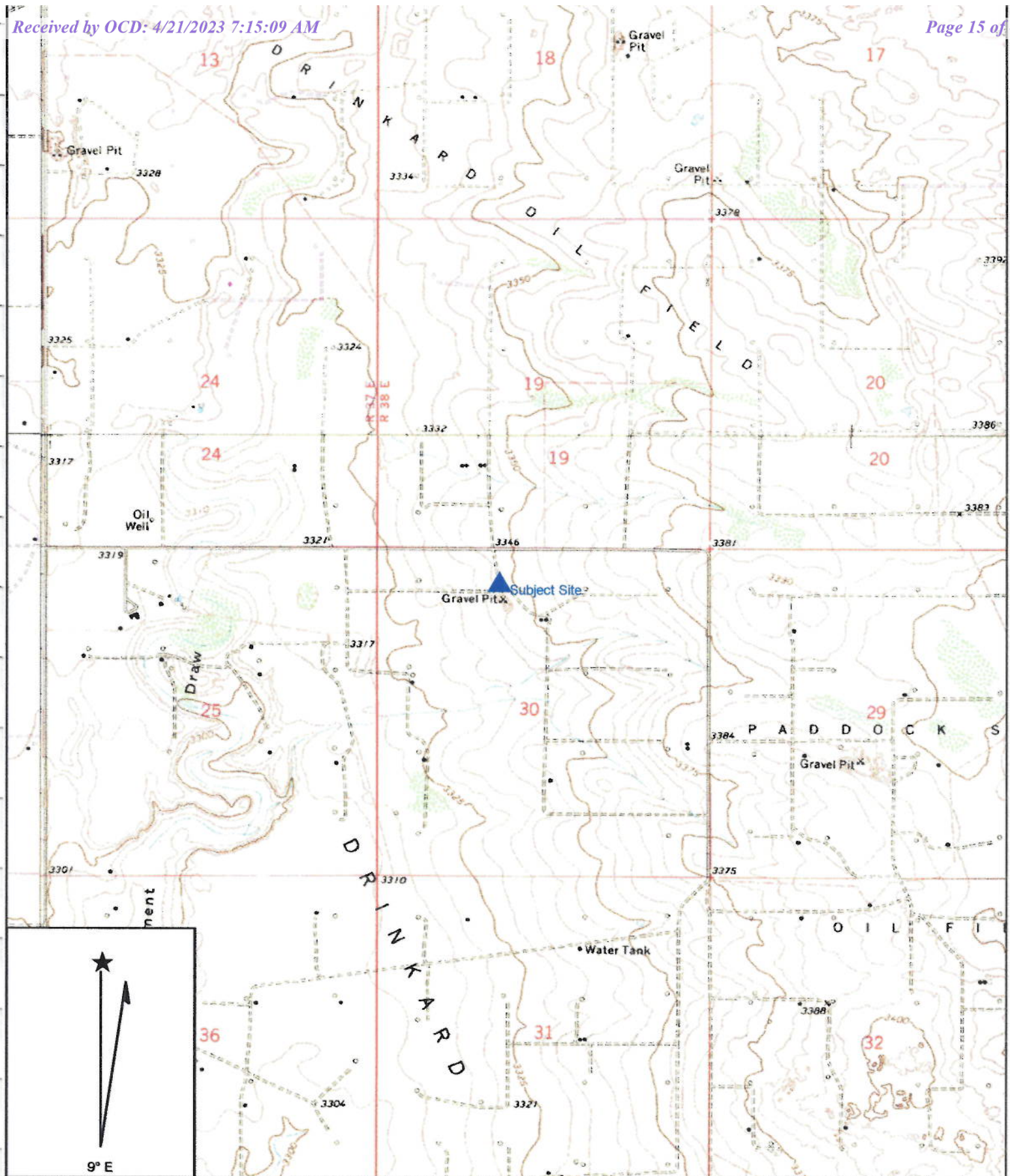
IV. Maps and Figures

Vicinity Map
Site Plan
Disposal Tally
Analytical Results
Photographs

***Vivian Battery Closure Report
May 10, 2000***

Chevron USA

Exhibit A Vicinity Map



Name: EUNICE SE
 Date: 7/18/2000
 Scale: 1 inch equals 2000 feet

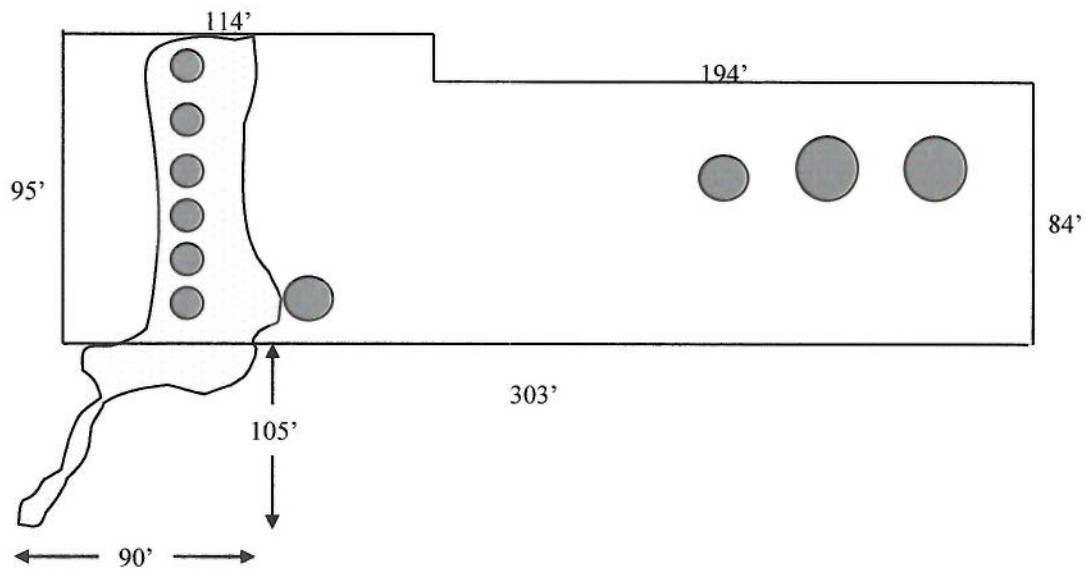
Location: 032° 22' 05.5" N 103° 06' 03.6" W
 Caption: Chevron USA
 Vivian Battery

Copyright (C) 1997, Maptech, Inc.

***Vivian Battery Closure Report
May 10, 2000***

Chevron USA

Exhibit B Site Plan

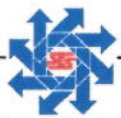


Date 5-10-00
Scale 1" = 200'

Chevron USA

Vivian Battery
Sec 30, T22S, R38E
Lea Co., New Mexico

Safety & Environmental Solutions, Inc.



***Vivian Battery Closure Report
May 10, 2000***

Chevron USA

Exhibit C Disposal Tally

Chevron Wink Location

Date	Transporter	Driver	Producer	Lease & Well	Ticket #	Barrels
5/17/00	WALTON	ROY	CHEVRON	VIVIAN TANK BATTER	28713	12.00
5/19/00	WALTON	JOSE	CHEVRON	VIVIAN	28758	12.00
5/19/00	WALTON	JOSE	CHEVRON	VIVIAN BATTERY	28745	12.00
5/19/00	WALTON	JOSE	CHEVRON	VIVIAN BATTERY	28752	12.00
5/19/00	WALTON	JOSE	CHEVRON	VIVIAN BATTERY	28755	12.00
5/22/00	WALTON	MARTIN	CHEVRON	VIVIAN	28811	12.00
5/22/00	WALTON	MARTIN	CHEVRON	VIVIAN	28816	12.00
5/22/00	WALTON	MARTIN	CHEVRON	VIVIAN BATTERY	28797	12.00
5/22/00	WALTON	MARTIN	CHEVRON	VIVIAN BATTERY	28798	12.00
5/22/00	WALTON	MARTIN	CHEVRON	VIVIAN BATTERY	28801	12.00
5/23/00	WALTON	MARTIN	CHEVRON	VIVIAN BATTERY	28803	12.00
5/23/00	WALTON	MARTIN	CHEVRON	VIVIAN	28837	12.00
5/23/00	WALTON	MARTIN	CHEVRON	VIVIAN	28840	12.00
5/23/00	WALTON	MARTIN	CHEVRON	VIVIAN	28842	12.00
5/23/00	WALTON	MARTIN	CHEVRON	VIVIAN	28845	12.00
5/23/00	WALTON	MARTIN	CHEVRON	VIVIAN	28846	12.00
5/23/00	WALTON	MARTIN	CHEVRON	VIVIAN BATTERY	28832	12.00
5/23/00	WALTON	MARTIN	CHEVRON	VIVIAN BATTERY	28850	12.00
7/6/00	RHINO	MIKE	CHEVRON	VIVIAN	29857	6.00
7/6/00	RHINO	MIKE	CHEVRON	VIVIAN	29863	6.00
7/6/00	RHINO	MIKE	CHEVRON	VIVIAN	29871	6.00
7/6/00	RHINO	MIKE	CHEVRON	VIVIAN	29874	6.00
7/6/00	RHINO	MIKE	CHEVRON	VIVIAN	29882	6.00
7/6/00	RHINO	MIKE	CHEVRON	VIVIAN	29893	6.00
7/6/00	RHINO	MIKE	CHEVRON	VIVIAN	29897	6.00
7/6/00	RHINO	MIKE #507	CHEVRON	VIVIAN	29899	6.00
7/7/00	RHINO	MIKE	CHEVRON	VIVIAN BATTERY	29889	6.00
7/7/00	RHINO	MIKE	CHEVRON	VIVIAN	29907	6.00
7/7/00	RHINO	MIKE	CHEVRON	VIVIAN	29913	6.00
7/7/00	RHINO	MIKE	CHEVRON	VIVIAN	29919	6.00
7/7/00	RHINO	MIKE	CHEVRON	VIVIAN	29925	6.00

***Vivian Battery Closure Report
May 10, 2000***

Chevron USA

Exhibit D Analytical Results 5-25-00

**ARDINAL**
LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENATL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, STE. #103
HOBBS, NM. 88240
FAX TO:

Receiving Date: 05/24/00
Reporting Date: 05/25/00
Project Number: NOT GIVEN
Project Name: CHEVRON VIVIAN SITE
Project Location: SOUTHEAST EUNICE

Analysis Date: 05/25/00
Sampling Date: 05/24/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)
H4905-1	BOTTOM	2000
H4905-2	SIDES	89.5
Quality Control		241
True Value QC		240
% Recovery		100
Relative Percent Difference		4.9

METHOD: EPA 600/4-79-020 418.1

Chemist

Date

H4905.XLS
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

ARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

***Vivian Battery Closure Report
May 10, 2000***

Chevron USA

Exhibit E Analytical Results 6-19-00


ARDINAL
LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
 SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
 ATTN: DEE WHATLEY
 703 E. CLINTON, STE. #103
 HOBBS, NM. 88240
 FAX TO: (505) 393-4388

Receiving Date: 06/19/00
 Reporting Date: 06/20/00
 Project Number: NOT GIVEN
 Project Name: CHEVRON-VIVIAN
 Project Location: EUNICE, NM

Analysis Date: 06/19/00
 Sampling Date: 06/19/00
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: BC

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)
H4951-1	BOTTOM HOLE	489
H4951-2	SIDES	<10
Quality Control		241
True Value QC		240
% Recovery		100
Relative Percent Difference		4.9

METHOD: EPA 600/4-79-020 418.1

Bryant J. Lash
 Chemist

6/20/00
 Date

H4951-1.XLS

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

ARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

Vivian Battery Closure Report
May 10, 2000

Chevron USA

Exhibit F

Photographs

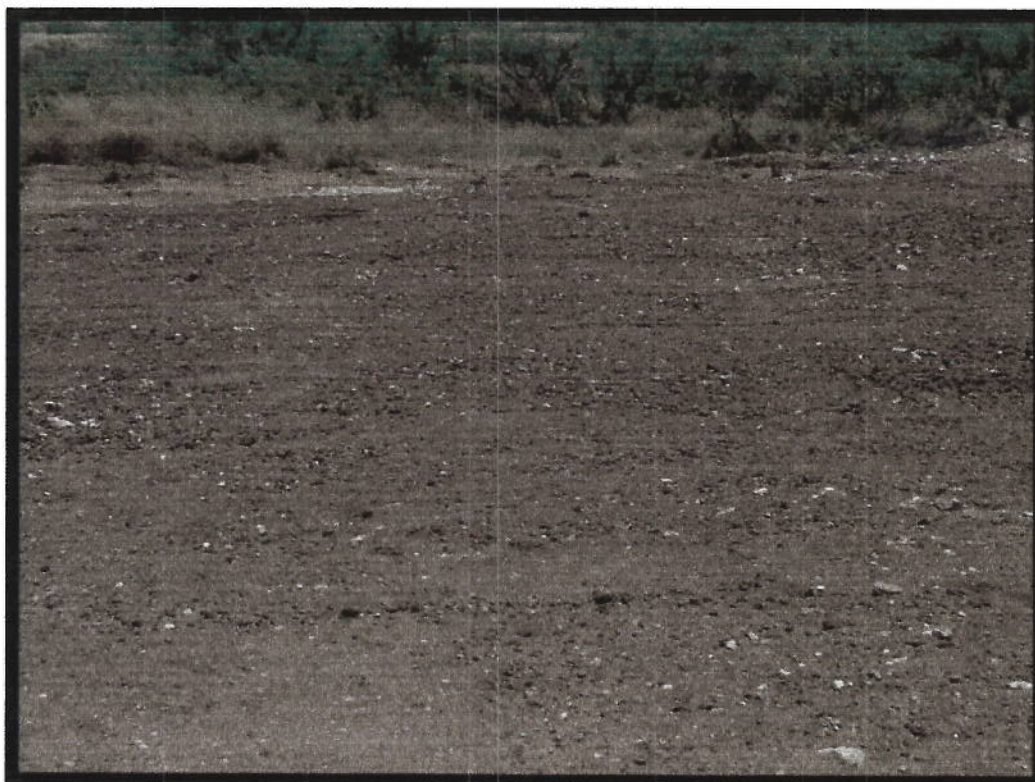


Photo #1 Before -South Pooling Area of Location West to East



Photo #1 Before -South Pooling Area of Location East to West



Phot #3 Before - Spill Area NE to SW Inside the Fence

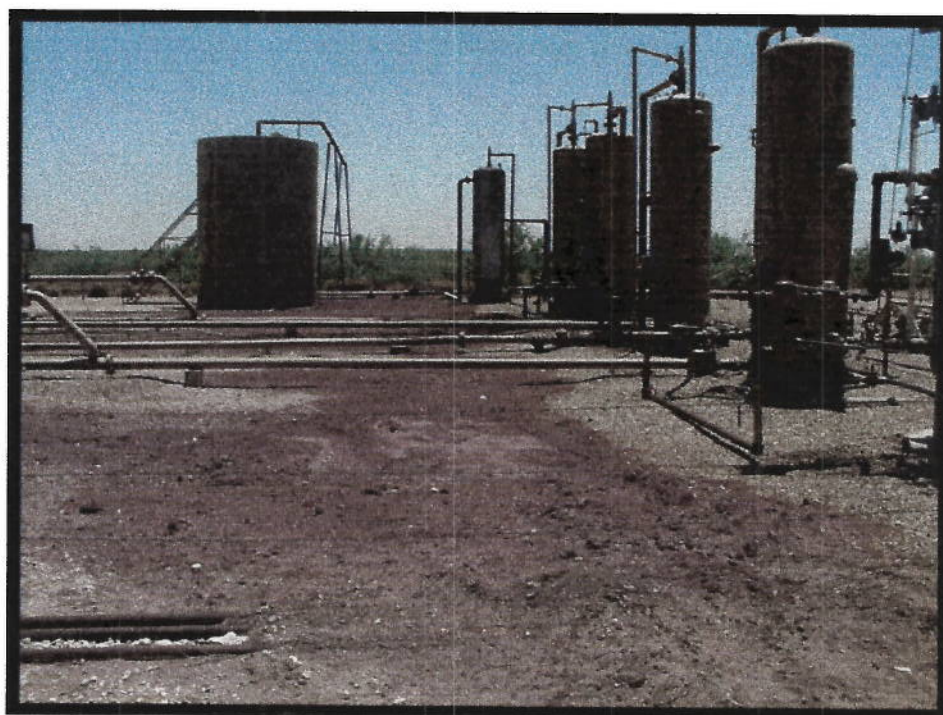


Photo #4 Before - Spill Area North to South Inside the Fence



Photo #5 Before -Location West to East



Photo #6 Before - Spill Area South to North Inside the Fence



Photo #7 Before - Spill Area East to West Outside of Fence



Photo #8 - Before Spill Area Runoff North to South Outside of Fence



Photo #9 Before - Spill Area Far South Pool West to East Outside of Fence



Photo #10 Before - Spill Area South to North Outside of Fence



Photo #11 Before - Pipeline Row SE to NW Through South Pool Area



Photo #12 Before - Far South East to West



Photo #13 Before - Location South to North



Photo # 14 During - Bottom Hole Facing South

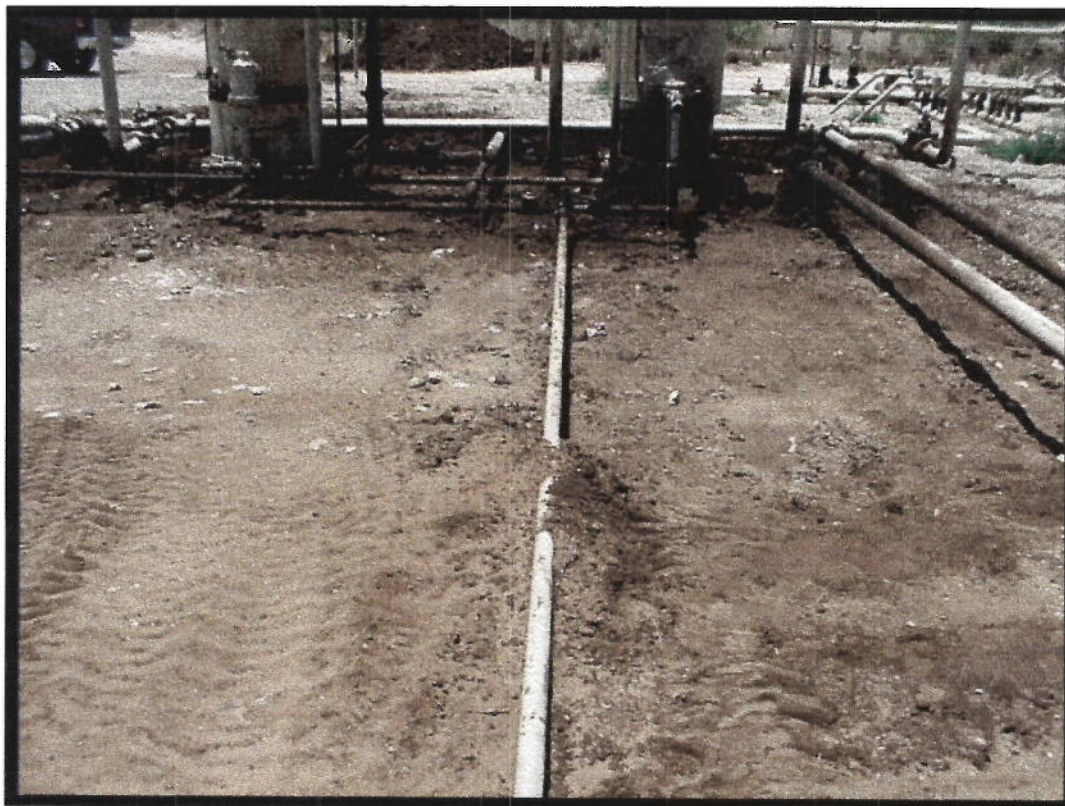


Photo #15 During - Bottom Hole Facing West



Photo #16 During - Bottom Hole Facing West



Photo #17 During - Northeast



Photo #18 During - NE Outside Fenced Area



Photo #19 During - North Outside Fenced Area



Photo #20 During - East Outside Fenced Area



Photo #21 After - Facing South Inside Fenced Area



Photo #22 After - Facing East Inside Fenced Area



Photo #23 After - Facing North Inside Fenced Area



Photo #24 After - Facing SW Outside Fenced Area



Photo #25 After - Facing South Outside Fenced Area



Photo #26 After - Facing East Outside Fenced Area



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
DISTRICT I HOBBS
PO BOX 1980, Hobbs, NM 88241
(505) 393-6161
FAX (505) 393-0720

Jennifer A. Salisbury
CABINET SECRETARY

May 12, 2000

Mr. Curtis Blake
Chevron USA (CUSA)
P.O. Box 1949
Eunice, NM 88231

Re: Vivian Battery
Sec 30 - T22S - R38E

*Bob Alvarado by phone
w/ Donna 5/16/00
18' max depth*

Dear Mr. Blake:

New Mexico Oil Conservation Division (NMOCD) is in receipt of the Remediation / Cleanup Work Plan for the Vivian Battery located in Sec 30-T22S-R38E submitted by Safety & Environmental Solutions, Inc. on May 12, 2000. The NMOCD hereby approves of the work plan submitted with the following conditions:

1. If at all possible Chevron shall clean the top 2-3 feet, 24-36 inches, of the inside battery and replace excavated soil with clean to bring the inside back to ground level.
2. Chevron shall notify the NMOCD at least 48 hours in advance of the scheduled activities such that the NMOCD has the opportunity to witness the events and split samples during regular business hours.
3. The site assessment report shall include a plot map of the location of the sample(s) taken and at what depth they were collected.

ack. De Batty

Please be advised that NMOCD approval of this plan does not relieve Chevron of liability should their operations fail to adequately investigate and remediate contaminants that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve Chevron of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you require any further information or assistance please do not hesitate to write or call me at (505-393-6161).

Sincerely,

Donna Williams

Donna Williams
Environmental Engineer
Cc: Wayne Price; Chris Williams;

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 209570

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 209570
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Historical document upload. Closure approved.	4/28/2023