

# **REMEDIATION PLAN**

**AMOCO PIPELINE COMPANY**  
**WEST TEXAS BUSINESS DISTRICT**  
502 N. West Avenue  
Levelland, Texas 79336  
FAX No. (806) 897-7045



**FACSIMILE COVER SHEET**

**DATE:** 7-24-95

**PLEASE DELIVER TO:**

**COMPANY:** N.M. OCS

**NAME:** Bill Olson

**PHONE No:** \_\_\_\_\_

**FAX No:** 505-827-8177

**FROM:**

**NAME:** Jim Lutter

**PHONE No:** 806-897-7017

**Number of Pages (including cover sheet):** 3

**Additional Comments:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Bill,

Corrected Form C-103 as we discussed.

Please fax back the approval to 1-806-897-7045

Thanks for your help!

Jim

Submit 3 Copies  
to Appropriate  
District OfficeState of New Mexico  
Energy, Minerals and Natural Resources Department

## DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

## DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## OIL CONSERVATION DIVISION

310 Old Santa Fe Trail, Room 206

Santa Fe, New Mexico 87503

WELL API NO.

NA

5. Indicate Type of Lease

State ☒ NA Fee ☐

6. State Oil &amp; Gas Lease No.

NA

7. Lease Name or Unit  
Agreement Name

Denton Facilities

8. Well No.

NA

9. Pool name or Wildcat

NA

## SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A  
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"  
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

Oil Well ☐Gas Well ☐Other ☐

PIPELINE

2. Name of Operator

Amoco Pipeline Company

3. Address of Operator

302 E. Avenue-A, Lovington, N.M.

4. Well Location

Unit Letter

Feet From The

Line and

Feet From The

Line

Section SW 1/4 of NW 1/4 Sec. 25 Township 14S

Range 37E

NMPM LEA

County

10 Elevation (Show whether DF, RKB, RT, GR, etc.)

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

## SUBSEQUENT REPORT OF:

Perform Remedial Work

☒

Plug and Abandon

☐

Remedial Work

☐

Altering Casing

☐

Temporarily Abandon

☐

Change Plans

☐

Commence Drilling Opns.

☐

Plug &amp; Abandonment

☐

Pull or Alter Casing

☐

Casing Test and Cement Job

☐

OTHER:

REMEDIAL SOIL AT PIPELINE SPILL SITE

☒

OTHER:

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

SEE ATTACHED REMEDIATION PLAN

FAX to: Bill Olson  
(505) 827-8177

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

TITLE

Environmental Coordinator DATE 07/24/95

TYPE OR PRINT NAME James D. Lutter

TELEPHONE NO. (806) 897-7017

(This space for State Use)

APPROVED BY

TITLE

Geologist IV

DATE

7/24/95

CONDITIONS OF APPROVAL, IF ANY:

Final remediation report will be sent to OCD  
upon completion.



**Amoco Pipeline Company**

West Texas Business District  
502 N. West Avenue  
Levelland, Texas 79336-3914  
806-897-7000

June 21, 1995

Mr. William C. Olson  
State of New Mexico  
Energy Minerals and Natural Resources Department  
Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, NM 87505

**RECEIVED**

**JUN 23 1995**

Environmental Bureau  
Oil Conservation Division

Re: Spill site Remediation Proposal

Dear Mr. Olson:

Enclosed with this letter is a form C-103 and associated documents proposing remediation plans for the designated facility.

Please review and respond with your approval.

Should you require further information, please call me at (806) 897-7017.

Sincerely,

James D. Lutter  
EH&S Coordinator,  
Levelland, TX

**Project:**

Denton Facilities Soil Remediation

**Proposed Start Date:** 7/1/95

**Proposed Completion Date:** 8/1/95

**Proposed Remediation Method:**

InSitu treatment using soil aeration and natural and enhanced bioremediation.

**Proposed Remediation Procedure:**

Contaminated soil will be excavated to determine exact extent of contamination and to ensure minimal pollutant migration.

Fresh surrounding soil will be added to the excavated soil, mixed and placed back into the excavation area. TPH levels will be checked during this process to ensure final levels for this area are within NMOCD guidelines (<5000 PPM TPH).

The process of excavation and mixing will provide soil aeration, increase the surface area of the waste to bacteria action, and eliminate "hot spots".

Remediated area will be replanted or otherwise prepared per specifications determined through landowner negotiations.

Final TPH analysis will be provided to NMOCD.

# NEW MEXICO CRUDE OIL LEAK SITE CLOSURE WORK SHEET

SITELLOCATION Newton Gardening

LEAKSPILL DATE 8-3-94

DEPTH TO GROUND WATER 21.00 FEET ☐ SCORE ☐

(Score: < 50' = 20 pts ~ 50' to 99' = 10 pts ~ > 100' = 0 pts)

HORIZONTAL DISTANCE TO PRIVATE WATER WELL > 200 FEET ☐ SCORE ☐

(Score: < 200' = 20 pts. ~ > 200' = 0 pts.)

DISTANCE TO SURFACE WATER 21000 FEET ☐ SCORE ☐

(Score: < 200' = 20 pts. ~ 200' to 1000' = 10 pts ~ > 1000' = 0 pts.)

TOTAL SCORE = ☐

SITE FINAL CLEANUP LEVELS				
If Score=				
Less than 19	10 to 19	0 to 9		
Benzene	10	10	10	10
BTEX	50	50	50	50
TPH	100	1000	5000	5000

These are the maximum levels allowed after site has been remediated

DEFINE LATERAL AND VERTICAL CONTAMINATION \_\_\_\_\_ LENGTH \_\_\_\_\_ WIDTH \_\_\_\_\_ DEPTH 21 SCORE ☐

## SPILL SITE MANAGEMENT OPTIONS:

- (1) Risk Assessment
- (2) OCD Approved Spill Containment Plan.

*on plastic 120 yds*

## Soil Remediation Options:

- (1) Excavation and removal (Sample to determine if all removed)
- (2) Excavation to maximum practical depth (Sample to determine level of non removable soil)
- (3) Treat on place (Sample while treating until required level reached)
- (4) Manage with an alternate method (requires OCD notification and approval)

## Soil Management Options:

- (1) Disposal at an OCD permitted or approved facility.
- (2) Land Farming
- (3) InSitu Treatment (Venting, Bioremediation, other approved system)
- (4) Active Soil aeration, Composting, Bioremediation, Solidification, thermal treatment, etc.

## Ground Water Remediation Options:

All Water treatment plans must be approved by OCD prior to starting treatment.

- (1) Skimmer or total fluid pumping
- (2) Removal and Disposal
- (3) Treating in place
- (4) Air Sparging, bio remediation

# NEW MEXICO CRUDE OIL LEAK SITE CLOSURE WORK SHEET

SITELLOCATION

Newton Washburn

LEAK/SPILL DATE

6-2-95

(Score: < 50' = 20 pts ~ 50' to 99' = 10 pts ~ > 100' = 0 pts)

DEPTH TO GROUND WATER > 100 FEET ☐ SCORE

(Score: < 200' = 20 pts, ~ > 200' = 0 pts.)

HORIZONTAL DISTANCE TO PRIVATE WATER WELL > 200 FEET ☐ SCORE

(Score: < 200' = 20 pts, ~ 200' to 1000' = 10 pts ~ > 1000' = 0 pts.)

DISTANCE TO SURFACE WATER > 1000 FEET ☐ SCORE

TOTAL SCORE = 0

SITE FINAL CLEANUP LEVELS				
If Score=				
Less than 19		10 to 19		0 to 9
Benzene	10	10	10	10
BTEX	50	50	50	50
TPH	100	1000	5000	5000

These are the maximum levels allowed after site has been remediated

DEFINE LATERAL AND VERTICAL CONTAMINATION 300' LENGTH 30' WIDTH 2' DEPTH 0 SCORE

## SPILL SITE MANAGEMENT OPTIONS:

- (1) Risk Assessment
- (2) OCD Approved Spill Containment Plan.

## Soil Remediation Options:

- (1) Excavation and removal (Sample to determine if all removed)
- (2) Excavation to maximum practical depth (Sample to determine level of non removable soil)
- (3) Treat on place. (Sample while treating until required level reached)
- (4) Manage with an alternate method (requires OCD notification and approval)

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- All Water treatment plans must be approved by OCD prior to starting treatment.
- (1) Skimmer or total fluid pumping
  - (2) Removal and Disposal
  - (3) Treating in place
  - (4) Air Sparging, bio remediation



# NEW MEXICO CRUDE OIL LEAK SITE CLOSURE WORK SHEET

SITE LOCATION

Newton, New Mexico

LEAK/SPILL DATE

5-30-95

(Score: < 50' = 20 pts ~ 50' to 99' = 10 pts ~ > 100' = 0 pts)

DEPTH TO GROUND WATER > 100 FEET

0 SCORE

(Score: < 200' = 20 pts. ~ > 200' = 0 pts.)

HORIZONTAL DISTANCE TO PRIVATE WATER WELL 520 FEET

0 SCORE

(Score: < 200' = 20 pts. ~ 200' to 1000' = 10 pts ~ > 1000' = 0 pts.)

DISTANCE TO SURFACE WATER > 1000 FEET

0 SCORE

TOTAL SCORE = 0

SITE FINAL CLEANUP LEVELS			
If Score =			
Less than 19	10 to 19	0 to 9	
Benzene	10	10	10
BTEX	50	50	50
TPH	100	1000	5000

These are the maximum levels allowed after site has been remediated

DEFINE LATERAL AND VERTICAL CONTAMINATION

LENGTH

WIDTH

DEPTH

SCORE

## SPILL SITE MANAGEMENT OPTIONS:

- (1) Risk Assessment
- (2) OCD Approved Spill Containment Plan.

## Soil Remediation Options:

- (1) Excavation and removal (Sample to determine if all removed)
- (2) Excavation to maximum practical depth (Sample to determine level of non removable soil)
- (3) Treat on place (Sample while treating until required level reached)
- (4) Manage with an alternate method (requires OCD notification and approval)

## Management Options:

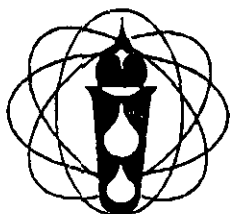
- (1) Disposal at an OCD permitted or approved facility.
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- (3) In-Situ Treatment (Venting, Bioremediation, other approved system)
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## Ground Water Remediation Options:

All Water treatment plans must be approved by OCD prior to starting treatment.

- (1) Skimmer or total fluid pumping
- (2) Removal and Disposal
- (3) Treating in place
- (4) Air Sparging, bio remediation

*65 yds*

**LUBBOCK CHRISTIAN UNIVERSITY  
INSTITUTE OF WATER RESEARCH**

5601 19th Street • Lubbock, TX 79407 • P.O. Drawer 16051 • Lubbock, TX 79490-6051  
(806) 796-8900 • 1-800-678-8901 • Fax (806) 796-8902

**ANALYTICAL RESULTS FOR  
AMOCO PIPELINE CO.  
ATTN: JIM LUTTER  
502 N. W. AVE.  
LEVELLAND, TX 79338  
FAX TO: 1-897-7045**

Receiving Date: 09/27/94  
Reporting Date: 10/03/94  
Project Number: DENTON # 1, EMPIRE # 2  
Project Name: NONE GIVEN  
Project Location: DENTON & EMPIRE - NM

Sampling Date: 09/27/94  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: RKT  
Analyzed By: SL

LAB NUMBER	SAMPLE ID	BENZENE (ppb)	TOLUENE (ppb)	ETHYLBENZENE (ppb)	TOTAL XYLENES (ppb)
ANALYSIS DATE		09/27/94	09/27/94	09/27/94	09/27/94
L3165-1	JDL092794-1	7.0	17.6	25.9	97.3
L3165-2	JDL092794-2	5.3	14.2	20.3	73.3
Quality Control		87.8	79.7	73.5	239.5
True Value QC		88.8	85.3	85.0	250.1
% Accuracy		101	94	86	96
Relative Percent Difference		0	2	8	7

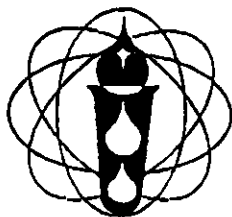
METHOD: EPA SW 846-8020, 5030, Gas Chromatography

*Jane Huang*

Jane Huang, Chemist

*10-3-94*  
Date

PLEASE NOTE: Liability and Damages: LCUWR'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 the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by LCUWR within thirty (30) days after completion of the applicable service. In no event shall LCUWR 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 LCUWR, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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AMOCO PIPELINE CO.  
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502 N. W. AVE.  
LEVELLAND, TX 79338  
FAX TO: 1-897-7045

Receiving Date: 09/27/94  
Reporting Date: 10/03/94  
Project Number: DENTON # 1, EMPIRE # 2  
Project Name: NONE GIVEN  
Project Location: DENTON & EMPIRE - NM  
Sample ID: JDL092794-1  
Lab Number: L3165-1

Analysis Date: 09/30/94  
Sampling Date: 09/27/94  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: RKT  
Analyzed By: SL

TCLP VOLATILES (ppm)	EPA LIMIT	Detection Limit	Sample Result L3165-1	Method Blank	QC	%IA	True Value QC
Vinyl chloride	0.20	0.001	<0.001	<0.001	49	98	50
1,1-Dichloroethylene	0.70	0.001	<0.001	<0.001	51	102	50
Methyl ethyl ketone	200.00	0.001	<0.001	<0.001	48	96	50
Chloroform	6.00	0.001	<0.001	<0.001	91	182	50
1,2-Dichloroethane	0.50	0.001	<0.001	<0.001	44	88	50
Benzene	0.50	0.001	<0.001	<0.001	50	100	50
Carbon tetrachloride	0.50	0.001	<0.001	<0.001	51	102	50
Trichloroethylene	0.50	0.001	<0.001	<0.001	51	102	50
Tetrachloroethylene	0.70	0.001	<0.001	<0.001	50	100	50
Chlorobenzene	100.00	0.001	<0.001	<0.001	49	98	50
1,4-Dichlorobenzene	7.50	0.001	<0.001	<0.001	49	98	50

	% RECOVERY	RELATIVE PERCENT DIFFERENCE
Dibromofluoromethane	90	8
Toluene - d8	96	1
Bromofluorobenzene	92	6

METHODS: EPA SW-846-8260, 1311.

*Jane Huang*  
Jane Huang, Chemist

10-3-94  
Date

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502 N. W. AVE.  
LEVELLAND, TX 79336  
FAX TO: 1-897-7045

Receiving Date: 09/27/94  
Reporting Date: 10/03/94  
Project Number: DENTON # 1, EMPIRE # 2  
Project Name: NONE GIVEN  
Project Location: DENTON & EMPIRE - NM  
Sample ID: JDL092794-2  
Lab Number: L3165-2

Analysis Date: 09/30/94  
Sampling Date: 09/27/94  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: RKT  
Analyzed By: SL

TCLP VOLATILES (ppm)	EPA LIMIT	Detection Limit	Sample Result L3165-2	Method Blank	QC	%IA	True Value QC
Vinyl chloride	0.20	0.001	<0.001	<0.001	49	98	50
1,1-Dichloroethylene	0.70	0.001	<0.001	<0.001	51	102	50
Methyl ethyl ketone	200.00	0.001	<0.001	<0.001	48	96	50
Chloroform	6.00	0.001	<0.001	<0.001	91	182	50
1,2-Dichloroethane	0.50	0.001	<0.001	<0.001	44	88	50
Benzene	0.50	0.001	<0.001	<0.001	50	100	50
Carbon tetrachloride	0.50	0.001	<0.001	<0.001	51	102	50
Trichloroethylene	0.50	0.001	<0.001	<0.001	51	102	50
Tetrachloroethylene	0.70	0.001	<0.001	<0.001	50	100	50
Chlorobenzene	100.00	0.001	<0.001	<0.001	49	98	50
1,4-Dichlorobenzene	7.50	0.001	<0.001	<0.001	49	98	50

	% RECOVERY	RELATIVE PERCENT DIFFERENCE
Dibromofluoromethane	90	8
Toluene - d8	98	1
Bromofluorobenzene	90	6

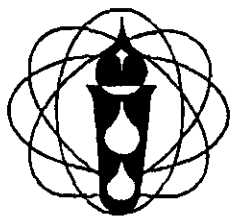
METHODS: EPA SW-846-8260, 1311.

*Jane Huang*

Jane Huang, Chemist

*10-3-94*  
Date

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Reporting Date: 10/03/94  
Project Number: DENTON # 1, EMPIRE # 2  
Project Name: NONE GIVEN  
Project Location: DENTON & EMPIRE - NM  
Sample ID: JDL092794-2  
Lab Number: L3165-2

Analysis Date: 09/30/94  
Sampling Date: 09/27/94  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: RKT  
Analyzed By: SL

TCLP VOLATILES (ppm)	EPA LIMIT	Detection Limit	Sample Result L3165-2	Method Blank	QC	%IA	True Value QC
Vinyl chloride	0.20	0.001	<0.001	<0.001	49	98	50
1,1-Dichloroethylene	0.70	0.001	<0.001	<0.001	51	102	50
Methyl ethyl ketone	200.00	0.001	<0.001	<0.001	48	96	50
Chloroform	6.00	0.001	<0.001	<0.001	91	182	50
1,2-Dichloroethane	0.50	0.001	<0.001	<0.001	44	88	50
Benzene	0.50	0.001	<0.001	<0.001	50	100	50
Carbon tetrachloride	0.50	0.001	<0.001	<0.001	51	102	50
Trichloroethylene	0.50	0.001	<0.001	<0.001	51	102	50
Tetrachloroethylene	0.70	0.001	<0.001	<0.001	50	100	50
Chlorobenzene	100.00	0.001	<0.001	<0.001	49	98	50
1,4-Dichlorobenzene	7.50	0.001	<0.001	<0.001	49	98	50

	% RECOVERY	RELATIVE PERCENT DIFFERENCE
Dibromofluoromethane	90	8
Toluene - d8	98	1
Bromofluorobenzene	90	6

METHODS: EPA SW-846-8260, 1311.

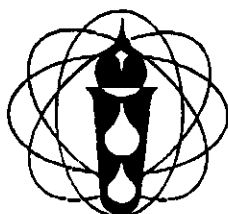
*Jane Huang*

Jane Huang, Chemist

10-3-94

Date

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FAX TO: 1-897-7045

Receiving Date: 09/27/94  
Reporting Date: 10/03/94  
Project Number: DENTON # 1, EMPIRE # 2  
Project Name: NONE GIVEN  
Project Location: DENTON & EMPIRE - NM  
Sample ID: JDL092794-1  
Lab Number: L3165-1

Analysis Date: 09/30/94  
Sampling Date: 09/27/94  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: RKT  
Analyzed By: SL

TCLP VOLATILES (ppm)	EPA LIMIT	Detection Limit	Sample Result L3165-1	Method Blank	QC	%IA	True Value QC
Vinyl chloride	0.20	0.001	<0.001	<0.001	49	98	50
1,1-Dichloroethylene	0.70	0.001	<0.001	<0.001	51	102	50
Methyl ethyl ketone	200.00	0.001	<0.001	<0.001	48	96	50
Chloroform	6.00	0.001	<0.001	<0.001	91	182	50
1,2-Dichloroethane	0.50	0.001	<0.001	<0.001	44	88	50
Benzene	0.50	0.001	<0.001	<0.001	50	100	50
Carbon tetrachloride	0.50	0.001	<0.001	<0.001	51	102	50
Trichloroethylene	0.50	0.001	<0.001	<0.001	51	102	50
Tetrachloroethylene	0.70	0.001	<0.001	<0.001	50	100	50
Chlorobenzene	100.00	0.001	<0.001	<0.001	49	98	50
1,4-Dichlorobenzene	7.50	0.001	<0.001	<0.001	49	98	50

	% RECOVERY	RELATIVE PERCENT DIFFERENCE
Dibromofluoromethane	90	8
Toluene - d8	96	1
Bromofluorobenzene	92	6

METHODS: EPA SW-846-8260, 1311.

Jane Huang  
Jane Huang, Chemist

10-3-94  
Date

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