

sep-OK
TanV. - OK

RECEIVED
NOV 12 1960

NOV 12 1969

Land Type: _____

Pit Location: Pit dimensions: length 15', width 15', depth 3'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 90

Direction from reference: S20E Degrees _____ East North _____
_____ West South _____

Depth To Groundwater:

(Vertical distance from
contaminants to seasonal
high water elevation of
groundwater)

Less than 50 feet	(20 points)	
50 feet to 99 feet	(10 points)	
Greater than 100 feet	(0 points)	<u>0</u>

Distance to an Ephemeral Stream

(Downgradient dry wash greater than ten feet in width)

Less than 100 feet (10 points) 0
Greater than 100 feet (0 points) 0

Distance to Nearest Lake, Playa, or Watering Pond

(Downgradient lakes, playas and livestock or wildlife watering ponds)

d Less than 100 feet (10 points) 0
Greater than 100 feet (0 points)

Wellhead Protection Area:

(Less than 200 feet from a private domestic water source, or: less than 1000 feet from all other water sources)

Yes (20 points) _____
No (0 points) 0

Distance To Surface Water:

(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)

Less than 100 feet (20 points)
100 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 07/09/97 Date Completed: 07/16/97Remediation Method: Excavation X Approx. cubic yards 50

(Check all appropriate sections)

Landfarmed X

Insitu Bioremediation _____

Other _____

Remediation Location: Onsite X Offsite _____
(i.e. landfarmed onsite,
name and location of
offsite facility)General Description of Remedial Action: EXCAVATE PIT TO OVM LEVEL OF OPPMSAMPLE 1 4' BELOW EXCAVATION SAMPLE 2 4 POINT COMPOSITE SIDESGroundwater Encountered: No X Yes _____ Depth _____Final Pit: Sample location #1 - BELOW EXCAVATION #2 - 1" PENETRATION EACH SIDE

Closure Sampling:

(if multiple samples, ANALYSIS - FIELD HEADSPACE AND TPH ALL SAMPLES

attach sample results

and diagram of sample Sample depth 7 FEET

locations and depths)

Sample date 07/16/97 Sample time 07:50

Sample Results

Soil: Benzene (ppm) _____ Water: Benzene (ppb) _____

Total BTEX (ppm) _____ Toluene (ppb) _____

Field Headspace (ppm) S-0 B-0 Ethylbenzene (ppb) _____TPH (ppm) S-526 B-311 Total Xylenes (ppb) _____

Groundwater Sample: Yes _____ No _____ (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 8/21/97 PRINTED NAME BRADLEY W. SALZMANSIGNATURE Bradley W. Salzman AND TITLE AGENT

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON) _____SIGNED: Karena L. Callahan DATE: 8/27/97



Amoco Production Company

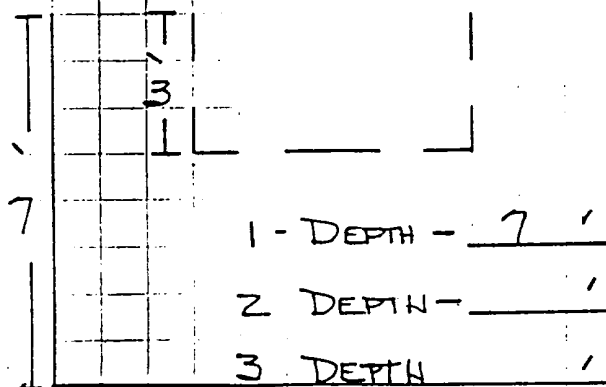
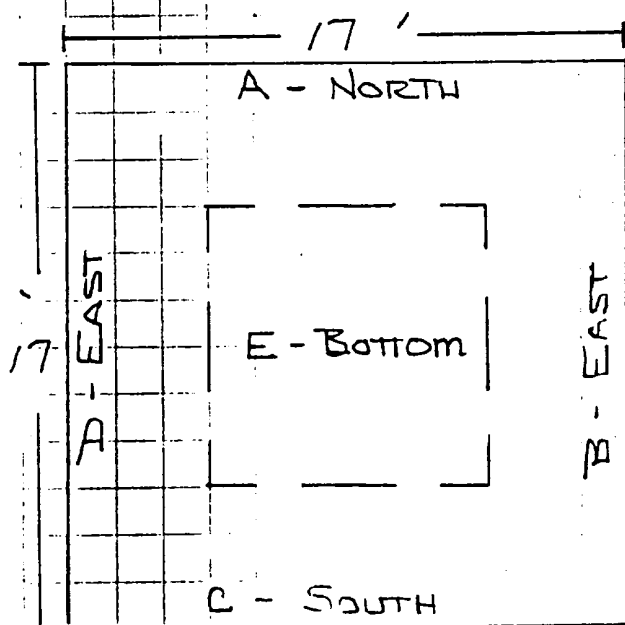
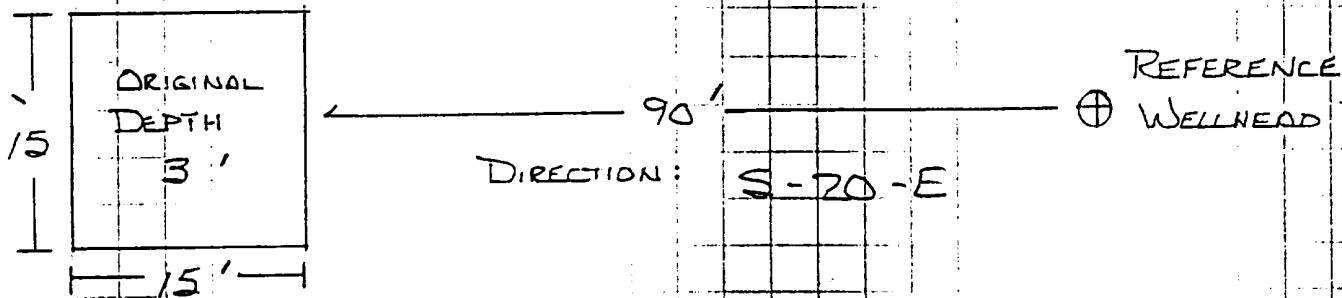
ENGINEERING CHART

Sheet No. _____ Of _____
File _____
Appn _____
Date _____
By _____

SUBJECT RODDY PRODUCTION - PIT CLOSURE

FIELD NOTES

WELL NAME: CARCON JICRILLO APACHE
D-110 SEP



— ORIGINAL
— EXCAVATED

SAMPLE ANALYSIS

	OVM PPM	TPH PPM
A ₁	0	R-D 526
B ₁	1	
C ₁	7	
D ₁	0	
E ₁	0	
A ₂		311
B ₂		
C ₂		
D ₂		
E ₂		
A ₃		
B ₃		
C ₃		
D ₃		
E ₃		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

July 18, 1997

Mr. Bradley Salzman
Roddy Production Company
P.O. Box 2221
Farmington, New Mexico 87499

Project No.: 97300-44

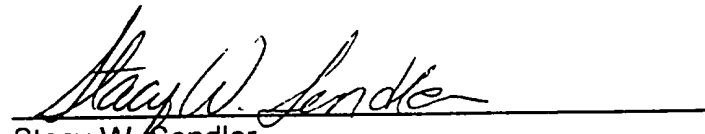
Dear Mr. Salzman,

Enclosed are the analytical results for the samples taken from the location identified as "Jicarilla Pits - Chacon Jicarilla". Eight soil samples were collected from the referenced location by Roddy Production personnel 07/16/97, and delivered to the Envirotech Laboratory on 07/16/97 for Total Petroleum Hydrocarbon (TPH) analysis per USEPA Method 8015, Modified.

The samples were documented on Envirotech Chain of Custody No. 5303, and assigned Laboratory Nos. B660 (D-103 Sep. Sides), B661 (D-103 Sep. Bot), B662 (D-103 Tank Sides), B663 (D-103 Tank Bot), D664 (D-110 Sep. Sides), D665 (D-110 Sep. Bot), B666 (D-110 Tank Sides), and B667 (D-110 Tank Bot) for tracking purposes.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully Submitted,
Envirotech, Inc.



Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enclosure

SWS/sws

97048lbB.wpd

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

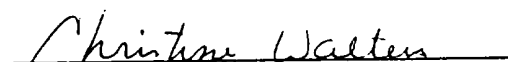
Client:	Roddy Production	Project #:	96300-44
Sample ID:	D-110 Sep. Sides	Date Reported:	07-18-97
Laboratory Number:	B664	Date Sampled:	07-16-97
Chain of Custody No:	5303	Date Received:	07-16-97
Sample Matrix:	Soil	Date Extracted:	07-16-97
Preservative:	Cool	Date Analyzed:	07-17-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

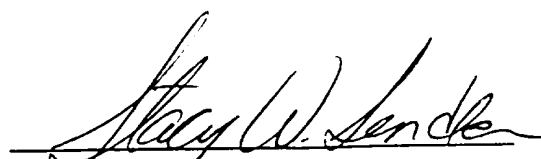
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	526	0.1
Total Petroleum Hydrocarbons	526	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: Jicarilla Pits.
Chacon Jicarilla.


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

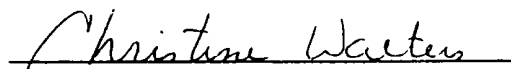
Client:	Roddy Production	Project #:	96300-44
Sample ID:	D-110 Sep. Bot.	Date Reported:	07-18-97
Laboratory Number:	B665	Date Sampled:	07-16-97
Chain of Custody No:	5303	Date Received:	07-16-97
Sample Matrix:	Soil	Date Extracted:	07-16-97
Preservative:	Cool	Date Analyzed:	07-17-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

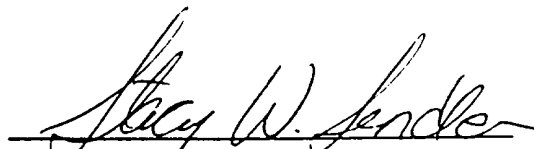
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	311	0.1
Total Petroleum Hydrocarbons	311	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: **Jicarilla Pits.**
Chacon Jicarilla.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location			ANALYSIS/PARAMETERS										
Roddy Production		Jicorilla Pits													
Sampler (Signature) <i>B. Salzman</i>		Chain of Custody Tape No. 96306-44													
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers						Remarks				
Cuacan Jicorilla	7-15-97	07:10	Blue 0	SOIL	1	1									
D-103 SEP SIDES	"	"	Blue 1	"	1	1									
D-103 SEP BOT	"	07:15	Blue 1	"	1	1									
D-103 TANK SIDES	"	07:20	Blue 2	"	1	1									
" TANK BOT.	"	07:25	Blue 3	"	1	1									
D-110 SEP SIDES	"	07:45	Blue 4	"	1	1									
D-110 SEP BOT.	"	07:50	Blue 5	"	1	1									
D-110 TANK SIDES	"	07:55	Blue 6	"	1	1									
" TANK BOT.	"	08:00	Blue 7	"	1	1									
All samples received cool & intact and															
Relinquished by: (Signature) <i>B. Salzman</i>		Date 7-15-97 11:15			Received by: (Signature) <i>Mike Watts</i>					Date 7-16-97 11:15					
Relinquished by: (Signature)					Received by: (Signature)										
Relinquished by: (Signature)					Received by: (Signature)										

ENVIROTECH INC.
 5796 U.S. Highway 64-3014
 Farmington, New Mexico 87401
 (505) 632-0615

Date Remediation Started: 07/09/97 Date Completed: 07/16/97

Remediation Method: Excavation X Approx. cubic yards 40
 (Check all appropriate sections) Landfarmed X Insitu Bioremediation _____
 Other _____

Remediation Location: Onsite X Offsite _____
 (i.e. landfarmed onsite, name and location of offsite facility) _____

General Description of Remedial Action: EXCAVATE PIT TO OVM LEVEL OF OPPM
SAMPLE 1 BELOW EXCAVATION SAMPLE 2 4 POINT COMPOSITE SIDES

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location #1 - BELOW EXCAVATION #2 - 1' PENETRATION EACH SIDE
 Closure Sampling: ANALYSIS - FIELD HEADSPACE AND TPH ALL SAMPLES
 (if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 7 FEET
 Sample date 07/16/97 Sample time 08:00

Sample Results

Soil: Benzene (ppm) _____ Water: Benzene (ppb) _____
 Total BTEX (ppm) _____ Toluene (ppb) _____
 Field Headspace (ppm) S- 0 B-0 Ethylbenzene (ppb) _____
 TPH (ppm) S-547 B-487 Total Xylenes (ppb) _____

Groundwater Sample: Yes _____ No _____ (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 8/21/97 PRINTED NAME BRADLEY W. SALZMAN

SIGNATURE Bradley W. Salzman AND TITLE AGENT

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON) _____

SIGNED: Karen J. Callahan DATE: 8/27/97



Amoco Production Company

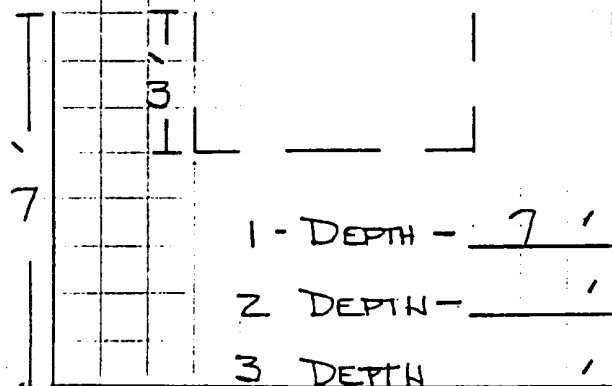
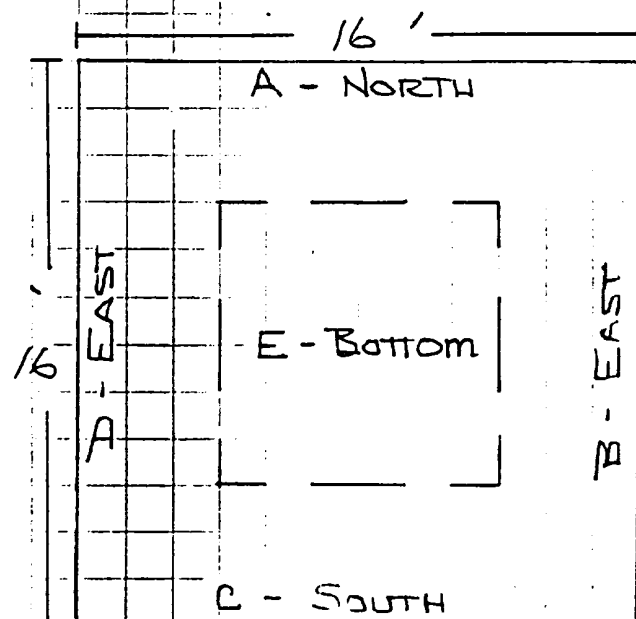
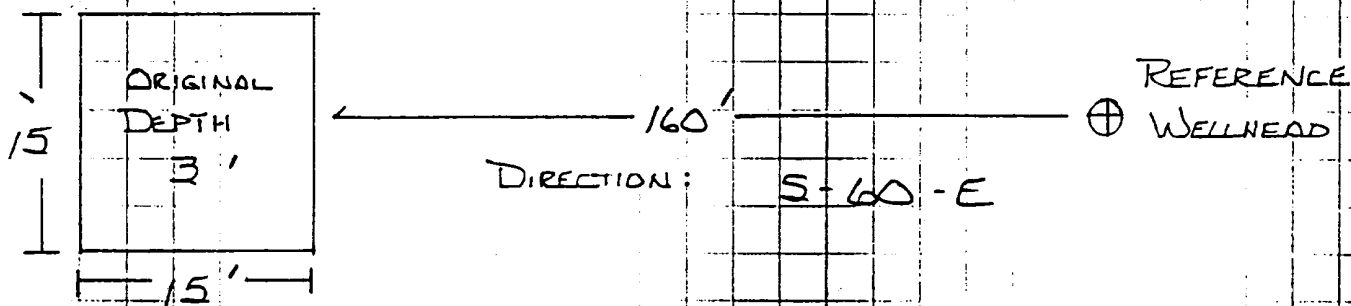
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Sheet No. _____ Of _____
File _____
Appn _____
Date _____
By _____

SUBJECT RODDY PRODUCTION - PIT CLOSURE

FIELD NOTES

WELL NAME: CARCON VICORILLO FIREARME
D-110 TONK



SAMPLE ANALYSIS

	OVM PPM	TPH PPM
A ₁	0	A-D 547
B ₁	7	
C ₁	11	
D ₁	0	
E ₁	0	
A ₂		487
B ₂		
C ₂		
D ₂		
E ₂		
A ₃		
B ₃		
C ₃		
D ₃		
E ₃		

— ORIGINAL
— EXCAVATED

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

July 18, 1997

Mr. Bradley Salzman
Roddy Production Company
P.O. Box 2221
Farmington, New Mexico 87499

Project No.: 97300-44

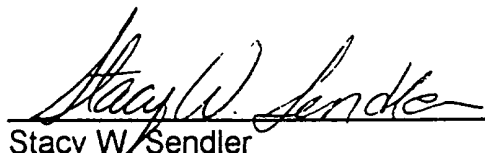
Dear Mr. Salzman,

Enclosed are the analytical results for the samples taken from the location identified as "Jicarilla Pits - Chacon Jicarilla". Eight soil samples were collected from the referenced location by Roddy Production personnel 07/16/97, and delivered to the Envirotech Laboratory on 07/16/97 for Total Petroleum Hydrocarbon (TPH) analysis per USEPA Method 8015, Modified.

The samples were documented on Envirotech Chain of Custody No. 5303, and assigned Laboratory Nos. B660 (D-103 Sep. Sides), B661 (D-103 Sep. Bot), B662 (D-103 Tank Sides), B663 (D-103 Tank Bot), D664 (D-110 Sep. Sides), D665 (D-110 Sep. Bot), B666 (D-110 Tank Sides), and B667 (D-110 Tank Bot) for tracking purposes.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully Submitted,
Envirotech, Inc.



Stacy W. Sandler
Environmental Scientist/Laboratory Manager

enclosure

SWS/sws

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

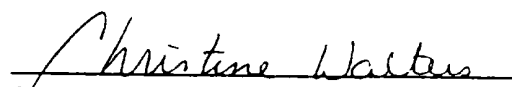
Client:	Roddy Production	Project #:	96300-44
Sample ID:	D-110 Tank Sides	Date Reported:	07-18-97
Laboratory Number:	B666	Date Sampled:	07-16-97
Chain of Custody No:	5303	Date Received:	07-16-97
Sample Matrix:	Soil	Date Extracted:	07-16-97
Preservative:	Cool	Date Analyzed:	07-17-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

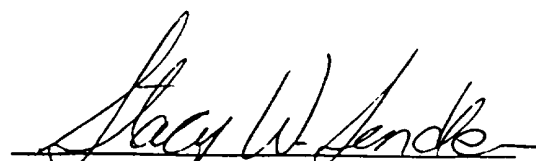
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	547	0.1
Total Petroleum Hydrocarbons	547	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: Jicarilla Pits.
Chacon Jicarilla.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

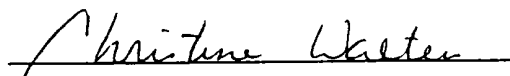
Client:	Roddy Production	Project #:	96300-44
Sample ID:	D-110 Tank Bot.	Date Reported:	07-18-97
Laboratory Number:	B667	Date Sampled:	07-16-97
Chain of Custody No:	5303	Date Received:	07-16-97
Sample Matrix:	Soil	Date Extracted:	07-16-97
Preservative:	Cool	Date Analyzed:	07-17-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

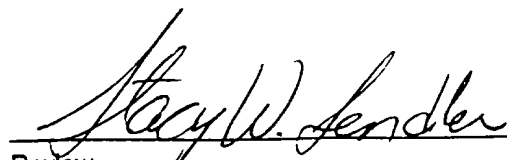
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	487	0.1
Total Petroleum Hydrocarbons	487	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: Jicarilla Pits.
Chacon Jicarilla.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS									
Roddy Production Sampler: (Signature) <i>Barry Seligman</i>		JICORILLO PITS Chain of Custody Tape No. 96306-44											
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers						Remarks		
Cuacan JICORILLO	7-16-97	07:10	Blue 0	SOIL	1	1							
D-103 SEP SIDES	"	"	Blue 1	"	1	✓							
D-103 SEP BOT	"	07:15	Blue 1	"	1	✓							
D-103 TANK SIDES	"	07:20	Blue 2	"	1	✓							
"	"	"	Blue 3	"	1	✓							
D-103 TANK BOT.	"	07:25	Blue 3	"	1	✓							
D-110 SEP SIDES	"	07:45	Blue 4	"	1	✓							
D-110 SEP BOT.	"	07:50	Blue 5	"	1	✓							
D-110 TANK SIDES	"	07:55	Blue 6	"	1	✓							
"	"	"	Blue 6	"	1	✓							
D-110 TANK BOT.	"	08:00	Blue 7	"	1	✓							
Relinquished by: (Signature) _____ Date _____ Time _____ <i>Barry Seligman</i> 7-16-97 11:15 Received by: (Signature) _____ <i>Mike Harts</i>													
Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____													

ENVIROTECH INC.
 5796 U.S. Highway 64-3014
 Farmington, New Mexico 87401
 (505) 632-0615

JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>Roddy Production</u> Telephone: <u>(505) 325-5780</u> 1 2 1999	
Address: <u>P.O. Box 2221, Farmington, NM 87499</u>	
Facility or Well Name: <u>Chacon Jicarilla Apache D-110</u>	
Location: Unit or Qtr/Qtr Sec <u>B</u> Sec <u>35</u> T <u>23N</u> R <u>3W</u> County <u>Sandoval</u>	
Land Type: <u>Range</u>	
Date Remediation Started: <u>July 1997</u> Date Completed: <u>September 1999</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>90</u>	
Composed <u> </u>	
Other <u> </u>	
Depth to Groundwater: (pts) <u>0</u>	Final Closure Sampling: Sampling Date: <u>9/14/99</u> Time: <u>14:45</u> Sample Results: Field Headspace (ppm) <u>23.8</u> TPH (ppm) <u>65.0</u> Method <u>8015</u> Other: <u> </u>
Distance to an Ephemeral Stream (pts) <u>0</u>	
Distance to Nearest Lake, Playa, or Watering Pond (pts) <u>0</u>	
Wellhead Protection Area (pts) <u>0</u>	
Distance to Surface Water (pts) <u>0</u>	
RANKING SCORE (TOTAL POINTS): <u>0</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF DATE: <u>October 4, 1999</u> PRINTED NAME <u>B.W. Salzman</u>	
SIGNATURE <u>B.W. Salzman</u> AND TITLE <u>Agent</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION. ON-SITE SOIL REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE. APPROVED: YES <u>X</u> NO <u> </u> (REASON) <u> </u>	
SIGNED: <u>Ken C. M...</u> DATE: <u>10-20-99</u>	

Date Started: July 1997 Date Completed: September 1999

Location: Chacon Jicarilla Apache D-110			
Quad: B	Section: 35		
Township: 23 N	Range: 3 W		

Sample #	Location	OVM
1	Comp 1	23.8
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

Pits: Separator and Tank	
Reference: 40 feet north of wellhead	
Size: Approximately 150' x 60' x 6" deep	
Yds: 90 cubic yards	
1 5 - Point Composite(s)	

Overview of Landfarm and Sampling :

The diagram illustrates the layout of the landfarm and sampling area. It includes a large rectangular 'Landfarm' area with several 'X' marks indicating sampling points. A 'Wellhead' is shown with a circular symbol and a crosshair. Adjacent to it is a 'Pumping Unit' represented by a rectangle. A 'Meter Run' is indicated by a line with a crossbar. Two 'Tank' units are shown as ovals, and a 'Separator' is shown as a larger oval. A north arrow points towards the top right, and a 'Surface Gradient' arrow points towards the bottom right.

Comments: A sample from composite # 1 was sent to Envirotech for TPH 8015 analysis.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

September 17, 1999

Mr. Brad Salzman
Roddy Production Company
P.O. Box 2221
Farmington, New Mexico 87499

Project No.: 99063
Job No.: 906301

Dear Mr. Salzman,

Enclosed are the analytical results for the samples collected from the location designated as "Jicarilla Land Farms". Three soil samples were collected by Roddy Production Company designated personnel on 09/14/99, and delivered to the Envirotech laboratory on 09/15/99 for Total Petroleum Hydrocarbons (TPH) analysis per USEPA Method 8015 Modified.

The samples were documented on Envirotech Chain of Custody No. 7340 and assigned Laboratory Nos. G071 (JAT D-108), G072 (JAT D-109), and G073 (JAT D-110) for tracking purposes. The samples were extracted and analyzed on 09/16/99 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.



Stacy W. Sender
Environmental Scientist/Laboratory Manager

enclosure

SWS/sws/99063/906301.lb1/wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

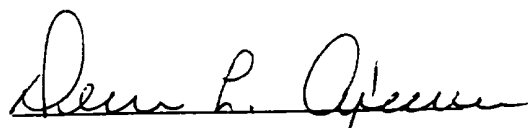
Client:	Roddy Proc. Co.	Project #:	906301
Sample ID:	JAT D-110	Date Reported:	09-16-99
Laboratory Number:	G073	Date Sampled:	09-14-99
Chain of Custody No:	7340	Date Received:	09-15-99
Sample Matrix:	Soil	Date Extracted:	09-16-99
Preservative:	Cool	Date Analyzed:	09-16-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

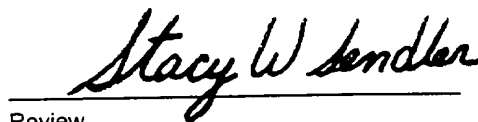
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	10.3	0.2
Diesel Range (C10 - C28)	54.7	0.1
Total Petroleum Hydrocarbons	65.0	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Jicarilla Land Farms.


Analyst


Review

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[illegible]