

Sep - on
Tonk - OK

AND OIL & GAS ADMINISTRATION
NOV 12 1950
OIL COM. DIV.
DIST. 2

12 1950
OIL COM. DIV.
BUREAU

Land Type: _____

Direction from reference: S45E Degrees ____ East North ____
____ West South ____

Less than 50 feet	(20 points)	
50 feet to 99 feet	(10 points)	
Greater than 100 feet	(0 points)	0

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

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

Less than 100 feet	(20 points)	
100 feet to 1000 feet	(10 points)	
Greater than 1000 feet	(0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 06/23/97 Date Completed: 06/25/97Remediation 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 OPBMSAMPLE 1 4' BELOW EXCAVATION SAMPLE 2 4 POINT COMPOSITE SIDESGroundwater Encountered: No X Yes _____ Depth _____Final Pit: Sample location #1 - 4' BELOW EXCAVATION #2 - 1' PENETRATION EACH SIDE

Closure Sampling:

(if multiple samples, attach sample results and diagram of sample locations and depths)

ANALYSIS - FIELD HEADSPACE AND TPH ALL SAMPLESSample depth 10 FEETSample date 06/25/97Sample time 07:15

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-24 B-0 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. Callado DATE: 8/27/97



Amoco Production Company

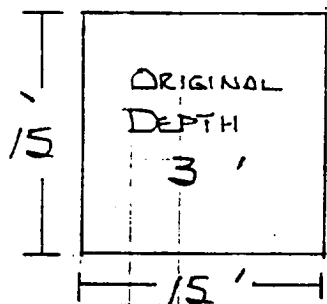
ENGINEERING CHART

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

SUBJECT RODDY PRODUCTION - PIT CLOSURE

FIELD NOTES

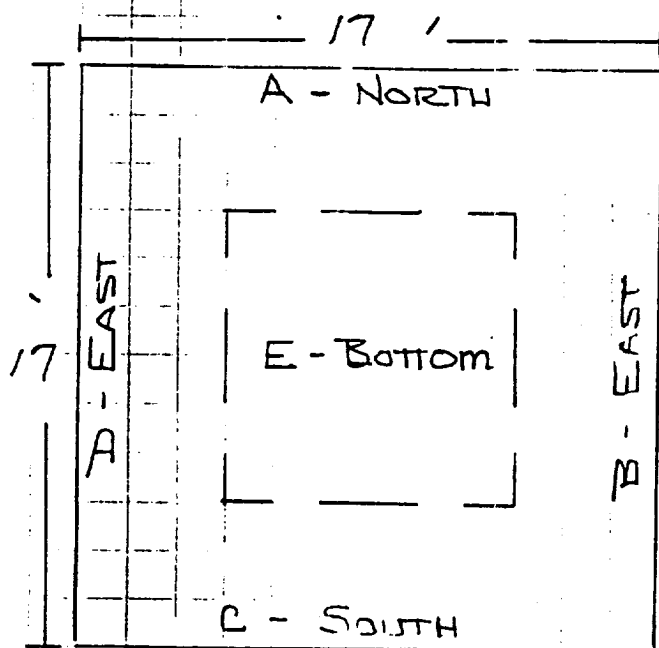
WELL NAME: CINACON JICARILLA APACNE
D-10 SEPARATOR



85'

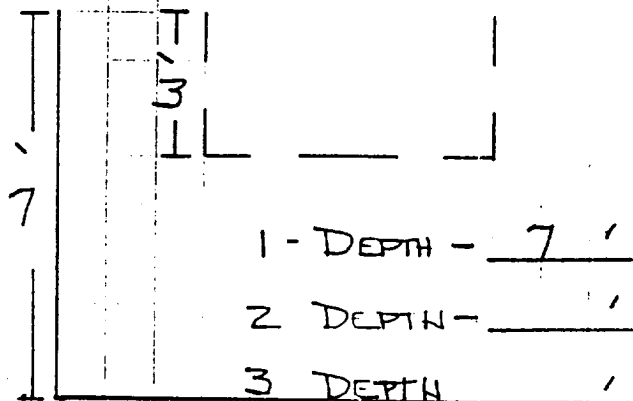
DIRECTION: S 45 E

REFERENCE
⊕ WELLHEAD



SAMPLE ANALYSIS

	OVM PPM	TPH PPM
A ₁	0	A-D 24
B ₁	1	
C ₁	0	
D ₁	4	
E ₁	0	
A ₂		0
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

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

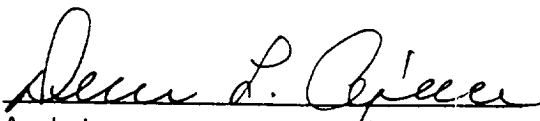
Client:	Roddy Prod.	Project #:	96300-44
Sample ID:	Chacon Jic D-10 Sep Sides	Date Reported:	06-27-97
Laboratory Number:	B508	Date Sampled:	06-25-97
Chain of Custody No:	5278	Date Received:	06-25-97
Sample Matrix:	Soil	Date Extracted:	06-26-97
Preservative:	Cool	Date Analyzed:	06-26-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

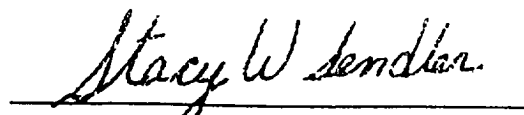
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	24.4	0.1
Total Petroleum Hydrocarbons	24.4	0.2

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.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name			Project Location			ANALYSIS/PARAMETERS											
Robby Prod			JICORILLA														
Sampler: (Signature) <i>B. B. Salzman</i>			Chain of Custody Tape No. 96300-44														
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	Remarks											
CHACON JIC	6-25-97	07:00	B505	SOIL	1	✓	80/5										
D-10 TANK BOT	"	07:05	B506		1	✓											
D-10 TANK SIDES	"	07:15	B507		1	✓											
D-10 SEP BOT	"	07:26	B508		1	✓											
D-10 SEP SIDES	"	07:35	B509		1	✓											
D-5 TANK BOT	"	07:40	B510		1	✓											
D-5 TANK SIDES	"																
Samples received cool & intact BHH																	
Relinquished by: (Signature) <i>B. B. Salzman</i>			Date 6-25-97			Time 10:40			Received by: (Signature) <i>Adam L. Oliver</i>			Date 6-25-97			Time 10:40		
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

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

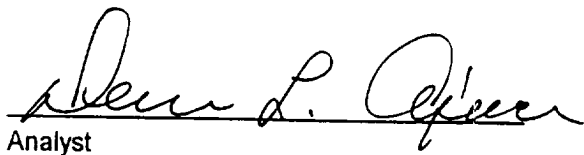
Client:	Roddy Prod.	Project #:	96300-44
Sample ID:	Chacon Jic D-10 Sep Bot.	Date Reported:	06-27-97
Laboratory Number:	B507	Date Sampled:	06-25-97
Chain of Custody No:	5278	Date Received:	06-25-97
Sample Matrix:	Soil	Date Extracted:	06-26-97
Preservative:	Cool	Date Analyzed:	06-26-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

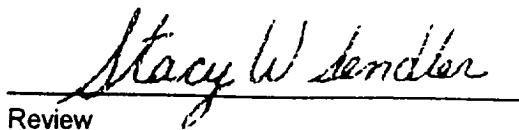
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name			Project Location			ANALYSIS/PARAMETERS										
Robby Prod			JICARILLA													
Sampler: (Signature) <i>B. B. Salzman</i>			Chain of Custody Tape No. 96300-44													
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers								Remarks			
CUACAN JIC	6-25-97	07:00	B505	SOIL	1	✓	80/5	TPH								
D-10 TANK BOT	"	07:05	B506		1	✓										
D-10 TANK SIDES	"	07:15	B507		1	✓										
D-10 " SEP BOT	"	07:20	B508		1	✓										
D-10 " SEP SIDES	"	07:35	B509		1	✓										
D-5 TANK BOT	"	07:40	B510		1	✓										
D-5 TANK SIDES	"															
Samples received cool & intact BPH																
Relinquished by: (Signature) <i>B. B. Salzman</i>			Date	Time	Received by: (Signature) <i>Robert J. Owens</i>								Date	Time		
			6-25-97	10:40									6-25-97	10:40		
Relinquished by: (Signature)					Received by: (Signature)											
Relinquished by: (Signature)					Received by: (Signature)											

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SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

REC'D CIVIL
NOV 12 1969
U.S. COURT OF APPEALS
25-5750
EX-13

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 06/23/97 Date Completed: 06/25/97
Remediation Method: Excavation X Approx. cubic yards 30
(Check all appropriate sections) Landfirmed X Insitu Bioremediation _____
Other _____
Remediation Location: Onsite X Offsite _____
(i.e. landfirmed onsite, name and location of offsite facility) _____
General Description of Remedial Action: EXCAVATE PIT TO OVM LEVEL OF OPDM
SAMPLE 1 4' BELOW EXCAVATION SAMPLE 2 4 POINT COMPOSITE SIDES
Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location #1 - 4' 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 10 FEET
Sample date 06/25/97 Sample time 07:00

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-0 B-32 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 S. Callado DATE: 8/27/97



Amoco Production Company

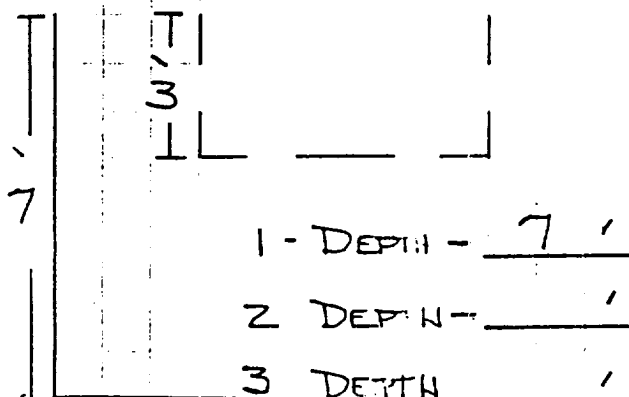
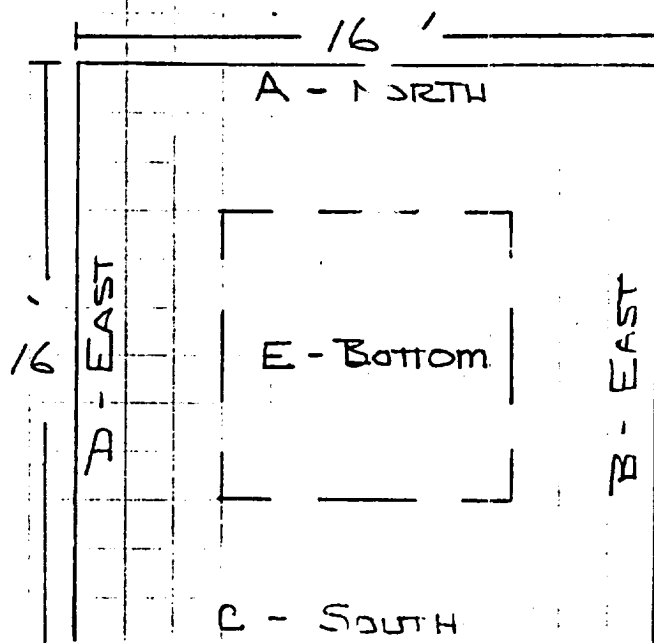
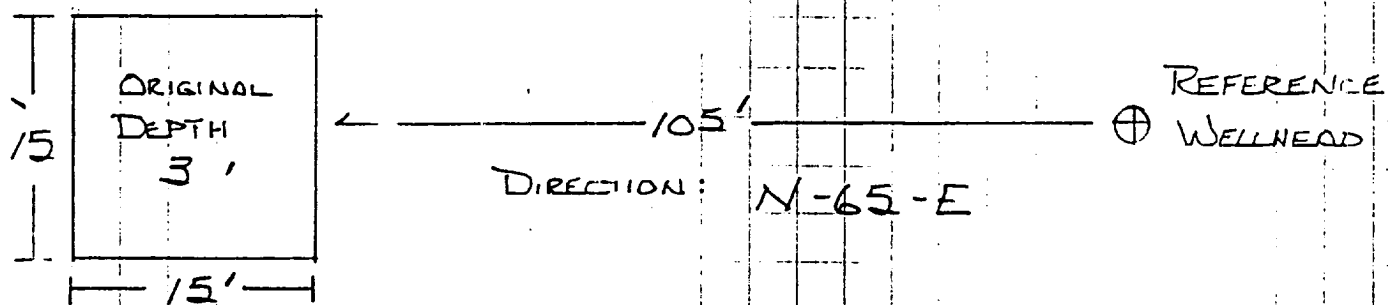
ENGINEERING CHART

SUBJECT RODDY PRODUCTION - PIT CLOSURE

FIELD NOTES

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

WELL NAME: CHACON JICARILLA APACHE
D-10 TANK



— ORIGINAL
— EXCAVATED

SAMPLE ANALYSIS

	OVM PPM	TPH PPM
A ₁	0	A-D 0
B ₁	0	
C ₁	0	
D ₁	0	
E ₁	0	
A ₂		32
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

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

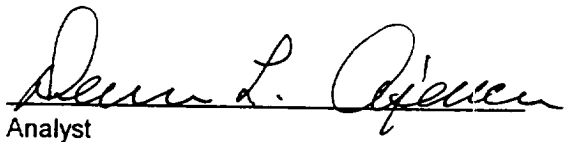
Client:	Roddy Prod.	Project #:	96300-44
Sample ID:	Chacon Jic D-10 Tank Sides	Date Reported:	06-27-97
Laboratory Number:	B506	Date Sampled:	06-25-97
Chain of Custody No:	5278	Date Received:	06-25-97
Sample Matrix:	Soil	Date Extracted:	06-26-97
Preservative:	Cool	Date Analyzed:	06-26-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

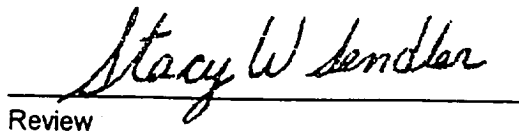
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name				Project Location		ANALYSIS/PARAMETERS												
Robby Prod				JICARILLA														
Sampler: (Signature) <i>B. B. Salzman</i>				Chain of Custody Tape No. 96300-44														
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	Remarks												
CHOCOA JIC	6-25-97	07:00	B505	SOIL	1	✓	80/5	TPH										
D-10 TANK BOT	"	07:05	B506		1	✓												
"	"	07:15	B507		1	✓												
"	"	07:20	B508		1	✓												
"	"	07:35	B509		1	✓												
"	"	07:40	B510		1	✓												
Samples received cool & intact. D.H.																		
Relinquished by: (Signature) <i>B. B. Salzman</i>				Date	6-25-97	Time	10:40	Received by: (Signature) <i>Alfred J. Quince</i>		Date	6-25-97	Time	10:40					
Relinquished by: (Signature)																		
Relinquished by: (Signature)																		

ENVIROTECH INC.

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Farmington, New Mexico 87401

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

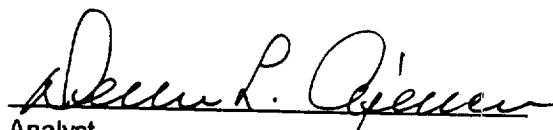
Client:	Roddy Prod.	Project #:	96300-44
Sample ID:	Chacon Jic D-10 Tank Bot.	Date Reported:	06-27-97
Laboratory Number:	B505	Date Sampled:	06-25-97
Chain of Custody No:	5278	Date Received:	06-25-97
Sample Matrix:	Soil	Date Extracted:	06-26-97
Preservative:	Cool	Date Analyzed:	06-26-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

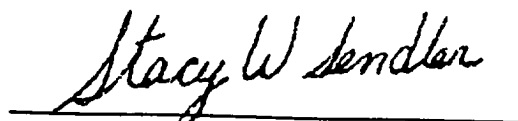
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	31.6	0.1
Total Petroleum Hydrocarbons	31.6	0.2

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.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name			Project Location			ANALYSIS/PARAMETERS													
Robby Prod			JICARILLA																
Sampler (Signature) <i>B. B. Salzman</i>			Chain of Custody Tape No. 96300-44																
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	Remarks													
CUACON JIC	6-25-97	07:00	BS05	SOIL	1	80/5 TPH													
D-10 TANK BOT	"	"	BS06		1	✓													
D-10 TANK SIDES	"	07:05	BS06		1	✓													
D-10 SEP BOT	"	07:15	BS07		1	✓													
D-10 " " "	"	07:20	BS08		1	✓													
D-10 " " "	"	07:35	BS09		1	✓													
D-5 TANK BOT	"	07:40	BS10		1	✓													
D-5 " " "	"																		
Samples received cool & intact																			
Relinquished by: (Signature) <i>B. B. Salzman</i>			Date 6-25-97			Time 10:40			Received by: (Signature) <i>Alfred J. O'Brien</i>			Date 6-25-97			Time 10:40				
Relinquished by: (Signature)									Received by: (Signature)										
Relinquished by: (Signature)									Received by: (Signature)										

ENVIROTECH INC.

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Farmington, New Mexico 87401

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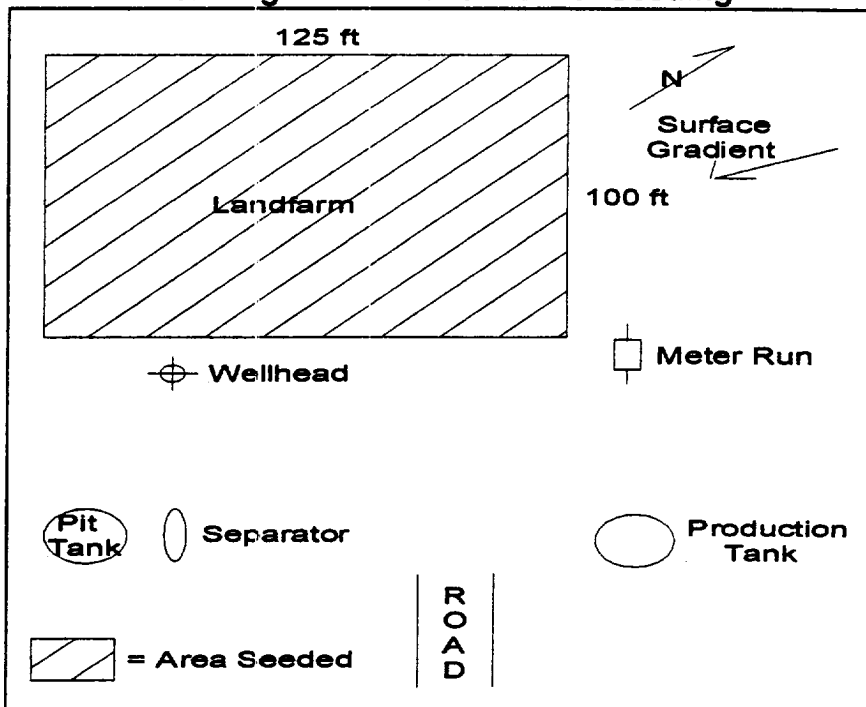
Client : **Roddy Production**

Location : Chacon Jicarilla Apache D-10

Quad : N Section : 16 Township : 23N Range : 3W

County : Sandoval

Site Diagram and Overview of Seeding



Date Seeded: October 18, 1999

Seed Mix:	Bag Number: 27579 #1, 27580 #1	North	South	X
-----------	--------------------------------	-------	-------	---

Weed Certification Confirmation: Yes X No

Seeding Rate: 21 PLS Pounds per Acre

Approximate Area Seeded: 12,500 sq. ft. 0.29 acres

Equipment Used: MF Tractor with Drill Seeder

Seeded By: RB

Comments:

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) 325-5750</u>	
Address: <u>P.O. Box 2221, Farmington, NM 87499</u>	
Facility or Well Name: <u>Chacon Jicarilla Apache D-10</u>	
Location: Unit or Qtr/Qtr Sec <u>N</u> Sec <u>16</u> T <u>23N</u> R <u>3W</u> County <u>Rio Arriba</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>80</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>13:25</u> Sample Results: Field Headspace (ppm) <u>17.8</u> TPH (ppm) <u>821</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>K.C.M.</u> DATE: <u>10-20-99</u>	

Date Started : July 1997 Date Completed : September 1999

Overview of Landfarm and Sampling :

The diagram illustrates the layout of a landfarm and sampling locations. Key features include:

- Landfarm:** A rectangular area containing five 'X' marks, with the word "Landfarm" centered within it.
- Wellhead:** Represented by a circle with a crosshair, located to the right of the landfarm.
- Surface Gradient:** Indicated by an arrow pointing towards the bottom right of the diagram.
- Pit:** A rectangular feature located at the bottom right.
- Separator:** An oval feature located to the right of the pit.
- Tank:** A circular feature located at the top right.
- Meter Run:** A rectangular feature with a crosshair, located at the top center.
- North Arrow:** A line with an arrow pointing towards the top left, labeled "N".

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". Two 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. 7342 and assigned Laboratory Nos. G076 (JAT D-9) and G077 (JAT D-10) 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. Sandler
Environmental Scientist/Laboratory Manager

enclosure

SWS/sws/99063/906301.lb3/wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

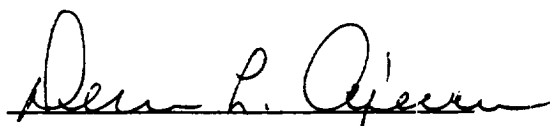
Client:	Roddy Proc. Co.	Project #:	906301
Sample ID:	JAT D-10	Date Reported:	09-16-99
Laboratory Number:	G077	Date Sampled:	09-14-99
Chain of Custody No:	7342	Date Received:	09-15-99
Sample Matrix:	Soil	Date Extracted:	09-16-99
Preservative:	Cool	Date Analyzed:	09-16-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

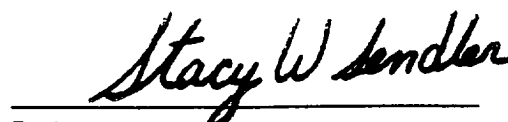
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	240	0.2
Diesel Range (C10 - C28)	581	0.1
Total Petroleum Hydrocarbons	821	0.2

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

CHAIN OF CUSTODY RECORD

7342

Client / Project Name		Project Location		ANALYSIS / PARAMETERS																								
Robby Prod. Co		Jicorillo Land Farms																										
Sampler: B.W. Salzman		Client No.																										
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	Soils										Remarks												
JAT D-9	9-14	13:15	G076	SOIL	1	✓																						
JAT D-10	9-14	13:25	G077	SOIL	1	✓																						
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																		
B.W. Salzman		9-15-99		9:10		H. L. Caples		9-15-99		9:10																		
Relinquished by: (Signature)						Received by: (Signature)																						
Relinquished by: (Signature)						Received by: (Signature)																						
ENVIROTECH INC. 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615																												
Sample Receipt <table border="1"> <tr> <td>Y</td> <td>N</td> <td>N/A</td> </tr> <tr> <td></td> <td>✓</td> <td></td> </tr> <tr> <td colspan="3">Received Intact</td> </tr> <tr> <td colspan="3">Cool - Ice/Blue Ice</td> </tr> </table>																	Y	N	N/A		✓		Received Intact			Cool - Ice/Blue Ice		
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