

Sep - OK
Tank - OK -

AND OIL & GAS ADMINISTRATION

RECEIVED
NOV 12 1969
COAL OIL & GAS ADMINISTRATION
DEPT. OF THE INTERIOR

Land Type: _____

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

Reference: wellhead X, other _____

Footage from reference: 85

Direction from reference: N70E Degrees _____ East North _____
of
_____ 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) 0

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 SurfaceWater:

(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)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 6/24/97 Date Completed: 6/30/97
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 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 7 FEET
Sample date 6/30/97 Sample time 07:00

Sample Results

Soil: Benzene (ppm)	_____	Water: Benzene (ppb)	_____
Total BTEX (ppm)	_____	Toluene (ppb)	_____
Field Headspace (ppm)	<u>0</u>	Ethylbenzene (ppb)	_____
TPH (ppm)	<u>S-0.6 B-0.9</u>	Total Xylenes (ppb)	_____

Groundwater Sample: Yes _____ No X (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 9/4/97 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 _____ NO _____ (REASON) _____

SIGNED: _____ DATE: _____



Amoco Production Company

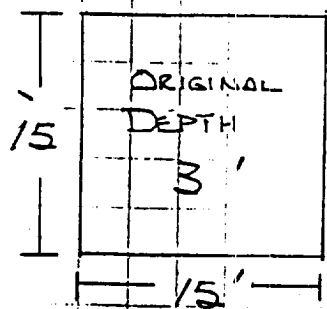
ENGINEERING CHART

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

SUBJECT RODDY PRODUCTION - PIT CLOSURE

FIELD NOTES

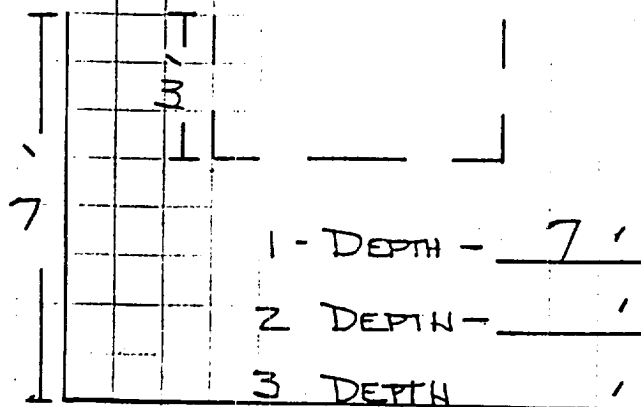
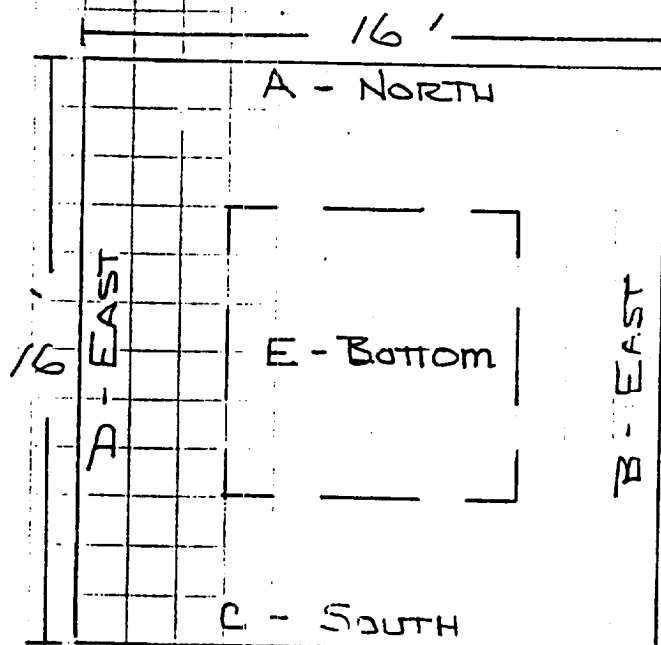
WELL NAME: CNACON JICARILLA APACHE
D-5 SEPARATOR



85'

DIRECTION: N-70° E

REFERENCE
⊕ WELLHEAD



— ORIGINAL
— EXCAVATED

SAMPLE ANALYSIS

	OVM PPM	TPH PPM
A ₁	7	A-D 0.6
B ₁	0	
C ₁	2	
D ₁	0	
E ₁	4	0.9
A ₂		
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

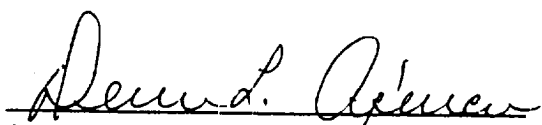
Client:	Roddy Production	Project #:	96300-44
Sample ID:	Chacon Jic. D-5 Sep Sides	Date Reported:	07-03-97
Laboratory Number:	B564	Date Sampled:	06-30-97
Chain of Custody No:	5279	Date Received:	07-01-97
Sample Matrix:	Soil	Date Extracted:	07-01-97
Preservative:	Cool	Date Analyzed:	07-01-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

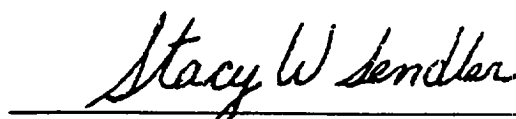
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	0.6	0.1
Total Petroleum Hydrocarbons	0.6	0.2

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 Pits.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name			Project Location		ANALYSIS/PARAMETERS											
Robby Production			Jicarilla Pts													
Sampler: (Signature) <i>B. J. 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 JICARILLA	6-30-97	07:10	B564	Soil	1	8015	All samples received									
D-5 SEP SIDES	"	"	B565	"	1	TPH	Cooling in hot sun									
D-5 SEP - BOT	"	07:15	B565	"	1	"										
D-8 TAUC SIDES	"	07:30	B566	"	1	"										
D-8 TAUC BOT.	"	07:35	B567	"	1	"										
D-8 SEP SIDES	"	07:40	B568	"	1	"										
D-8 SEP BOT.	"	07:45	B569	"	1	"										
D-3 LAUD FAEM	"	08:10	B570	"	1	"										
D-4 LAUD FAEM	"	08:20	B571	"	1	"										
AMECADA JIC.	"	09:00	B572	"	1	"										
#1 LAUD FAEM	"	"	"	"	"	"										
Relinquished by: (Signature) <i>B. J. Salzman</i>			Date	Time	Received by: (Signature) <i>Deane L. Quinn</i>		Date	Time								
Relinquished by: (Signature)			7-1-97	09:15			7-1-97	09:15								
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

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

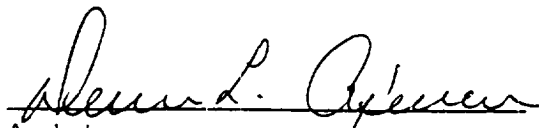
Client:	Roddy Production	Project #:	96300-44
Sample ID:	Chacon Jic. D-5 Sep Bot	Date Reported:	07-03-97
Laboratory Number:	B565	Date Sampled:	06-30-97
Chain of Custody No:	5279	Date Received:	07-01-97
Sample Matrix:	Soil	Date Extracted:	07-01-97
Preservative:	Cool	Date Analyzed:	07-01-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

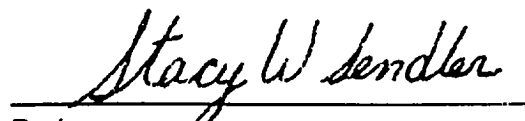
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	0.9	0.1
Total Petroleum Hydrocarbons	0.9	0.2

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.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name			Project Location		ANALYSIS/PARAMETERS										
Roddy PRODUCTION			JICAELLA PTS												
Sampler: (Signature) <i>B. Salzman</i>			Chain of Custody Tape No. 96300-44			No. of Containers		Remarks							
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix											
CUACON JICAELLA	6-30-97	07:10	B564	SOIL	1	1									
D-5 SEP SIDES	"	07:15	B565		1	1									
D-8 TANK SIDES	"	07:30	B566		1	1									
D-8 TANK BKT.	"	07:35	B567		1	1									
D-8 SEP SIDES	"	07:40	B568		1	1									
D-8 SEP BKT.	"	07:45	B569		1	1									
D-3 LAUD FAEN	"	08:10	B570		1	1									
D-4 LAUD FAEN	"	08:20	B571		1	1									
AMECADA JIC.	"	09:00	B572		1	1									
#1 LAUD FAEN	"														
Relinquished by: (Signature) <i>B. Salzman</i>			Date	Time	Received by: (Signature) <i>Deane L. Quinn</i>		Date								
Relinquished by: (Signature)			7-1-97	09:15			7-1-97 09:15								
Relinquished by: (Signature)					Received by: (Signature)										
Relinquished by: (Signature)					Received by: (Signature)										

ENVIROTECH INC.

5796 U.S. Highway 64-3014

Farmingington, New Mexico 87401

(505) 632-0615

Jicarilla Apache Tribe
Environmental Protection Office
P.O. Box 507
Dulce, New Mexico 87528

Pit Remediation and Closure Report

Operator:	RODDY PRODUCTION	Telephone:	(505) 325-5750	
Address:	P.O. BOX 2221 FARMINGTON, NM 87499			
Facility or Well Name:	CHACON JICARILLA APACHE D NO 5			
Location:	Unit or Qtr/QTR Sec "C", Sec 16, T 23 N, R 3 W County RIO ARRIBA, NM			
Pit Type:	Separator:	Dehydrator:	Other: X - TANK	
Land Type:				

Pit Location:	Pit dimensions:	length: 15 ft	width: 15 ft	depth: 3 ft
(Attach Diagram)				
	Reference:	wellhead: X	other:	
	Footage from reference:	100		
	Direction from reference:	N20E	Degrees	East North
				of
			West	South

Depth To Groundwater:	Less than 50 feet	(20 points)	
(Vertical distance from	50 feet to 99 feet	(10 points)	
contaminants to seasonal	Greater than 100 feet	(0 points)	0
high water elevations of			
groundwater)			
Distance to an Ephemeral Stream:	Less than 100 feet	(10 points)	
(Downgradient dry wash greater than	Greater than 100 feet	(0 points)	0
ten feet in width)			
Distance to Nearest Lake, Playa, or Watering	Less than 100 feet	(10 points)	
Pond: (Downgradient lakes, playas, and	Greater Than 100 feet	(0 points)	0
livestock or wildlife watering ponds)			
Wellhead Protection Area:	Yes	(20 points)	
(Less than 200 feet from a private	No	(0 points)	0
domestic water source, or less than			
1000 feet from all other water sources)			
Distance To Surface Water:	Less than 100 feet	(20 points)	
(Horizontal distance to perennial	100 feet to 1000 feet	(10 points)	
lakes, ponds, rivers, streams, creeks,	Greater than 1000 feet	(0 points)	0
irrigation canals and ditches.)			
RANKING SCORE (TOTAL SCORE):			0

Jicarilla Apache Tribe
Environmental Protection Office
P.O. Box 507
Dulce, New Mexico 87528

Pit Remediation and Closure Report

Date Remediation Started:	6/22/97	Date Completed	6/25/97
Remediation Method:	Excavation:	X	Approx. cubic yards: 40
(Check all appropriate sections)	Landfarmed:	X	Insitu Bioremediation:
	Other:		
Remediation Location:	On-site:	X	Off-site:
(I.e. landfarmed on site, name and location of off site location)			
General Description of Remedial Action: EXCAVATE PIT TO OVM LEVEL OF OPPM 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 s		
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:	6/25/97	Sample time: 07:40
Sample Results:			
<u>Soil:</u>		<u>Water:</u>	
Benzene (ppm)		Benzene (ppb)	
Total BTEX (ppm)		Toluene (ppb)	
Field Headspace (ppm)	13	Ethylbenzene (ppb)	
TPH (ppm)	1,913	Total Xylenes (ppb)	
Groundwater Sample:	Yes:	No: X	
(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:	9/4/97	BRADLEY W. SALZMAN	
SIGNATURE:	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: K. C. Mc		DATE: 10-22-99	



Amoco Production Company

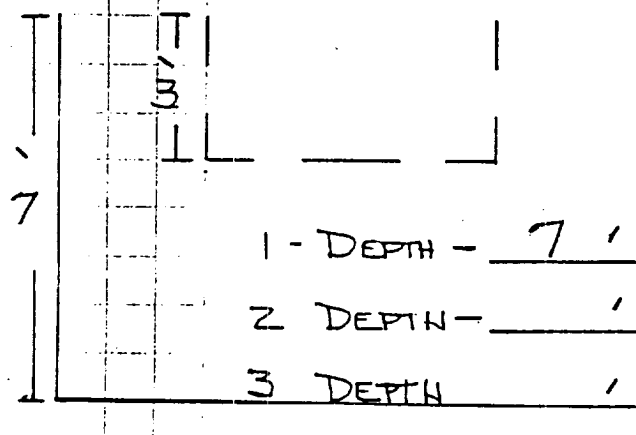
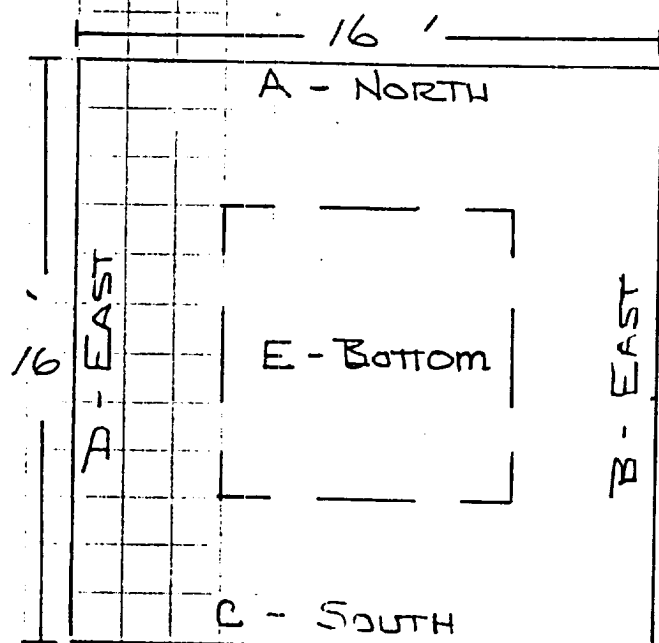
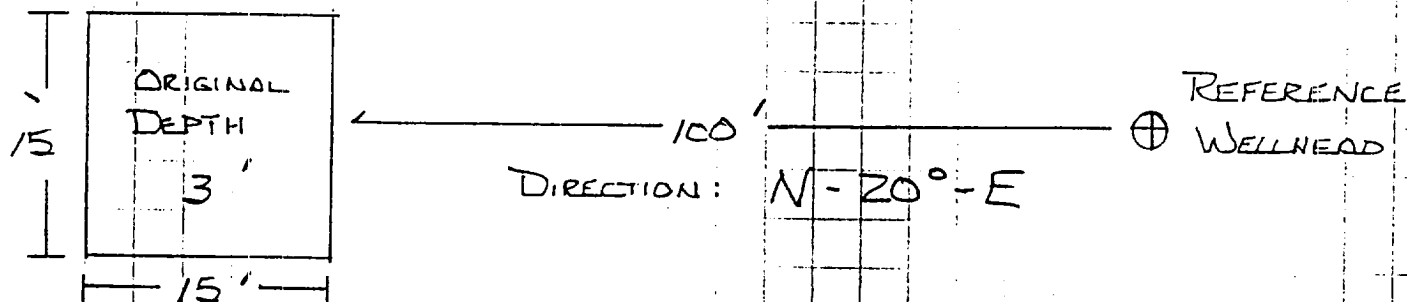
ENGINEERING CHART

SUBJECT RODDY PRODUCTION - PIT CLOSURE

FIELD NOTES

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

WELL NAME: CNACON JICARILLA PRODUCE
D-5 TANK



— ORIGINAL
— EXCAVATED

SAMPLE ANALYSIS

	OVM PPM	TPH PPM
A ₁	0	A-D 210
B ₁	4	
C ₁	0	
D ₁	2	
E ₁	13	
A ₂		1
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

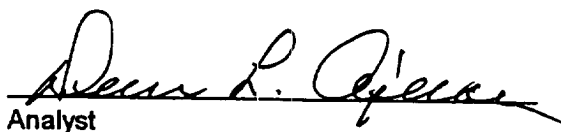
Client:	Roddy Prod.	Project #:	96300-44
Sample ID:	Chacon Jic D-5 Tank Bot.	Date Reported:	06-27-97
Laboratory Number:	B509	Date Sampled:	06-25-97
Chain of Custody No:	5278	Date Received:	06-25-97
Sample Matrix:	Soil	Date Extracted:	06-26-97
Preservative:	Cool	Date Analyzed:	06-26-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

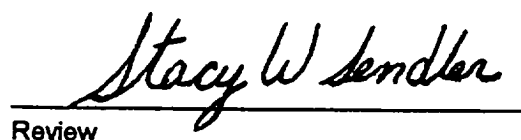
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	208	0.2
Diesel Range (C10 - C28)	1,705	0.1
Total Petroleum Hydrocarbons	1,913	0.2

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

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

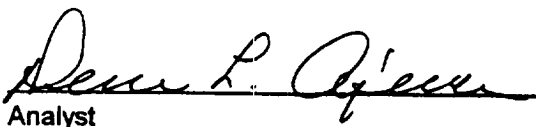
Client:	Roddy Prod.	Project #:	96300-44
Sample ID:	Chacon Jic D-5 Tank Sides	Date Reported:	06-27-97
Laboratory Number:	B510	Date Sampled:	06-25-97
Chain of Custody No:	5278	Date Received:	06-25-97
Sample Matrix:	Soil	Date Extracted:	06-26-97
Preservative:	Cool	Date Analyzed:	06-26-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1.5	0.2
Diesel Range (C10 - C28)	269	0.1
Total Petroleum Hydrocarbons	270	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	✓									
D-10 TANK BOT	"	07:05	B506		1	✓									
D-10 TANK SIDES	"	07:15	B507		1	✓									
D-10 SEP BOT	"	07:25	B508		1	✓									
D-10 SEP SIDES	"	07:35	B509		1	✓									
D-5 TANK BOT	"	07:40	B510		1	✓									
Samples received cool & intact BTH															
Relinquished by: (Signature) <i>B. B. Salzman</i>				Date	Time	Received by: (Signature) <i>Adrian F. Quiroz</i>				Date	Time				
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

ENTERED JUL 01 1997

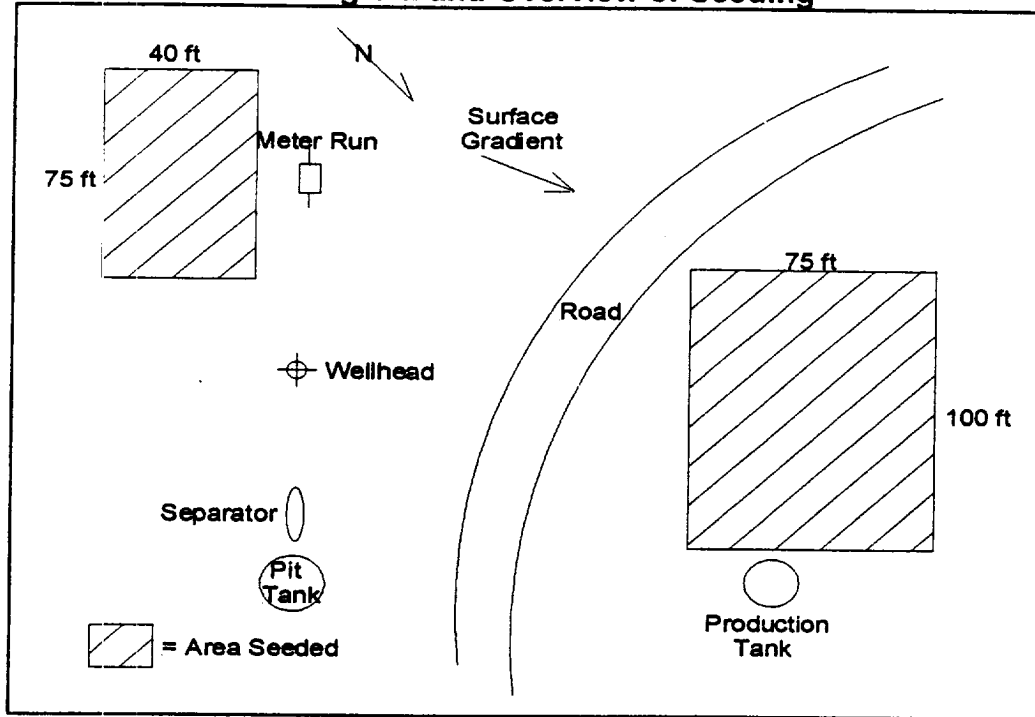
Client : **Roddy Production**

Location : Chacon Jicarilla Apache D-5

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

County : Sandoval

Site Diagram and Overview of Seeding



Date Seeded: October 19, 1999

Seed Mix: Bag Number: 27579 #1, 27580 #1 North _____ South XWeed Certification Confirmation: Yes X No _____

Seeding Rate: 21 PLS Pounds per Acre

Approximate Area Seeded: 10,500 sq. ft. 0.24 acres

Equipment Used: MF Tractor with Drill Seeder

Seeded By: RB

Comments: _____

[illegible][illegible]

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

ON-SITE SOIL REMEDIATION REPORT

RECEIVED
NOV 12 1999
CON. DIA
DIST. 3

Operator: Roddy Production Telephone: (505) 325-5750
Address: P.O. Box 2221, Farmington, NM 87499
Facility or Well Name: Chacon Jicarilla Apache D-5
Location: Unit or Qtr/Qtr Sec C Sec 16 T 23N R 3W County Rio Arriba
Land Type: Range

Date Remediation Started: July 1997 Date Completed: September 1999
Remediation Method: Landfarmed X Approx. cubic yards 80
Composed _____
Other _____

Depth to Groundwater: (pts) 0
Distance to an Ephemeral Stream (pts) 0
Distance to Nearest Lake, Playa, or Watering Pond (pts) 0
Wellhead Protection Area (pts) 0
Distance to Surface Water (pts) 0
RANKING SCORE
(TOTAL POINTS): 0

Final Closure Sampling:

Sampling Date: 9/15/99 Time: 13:05
Sample Results:
Field Headspace (ppm) 43.1
TPH (ppm) 52.2 Method 8015
Other: _____

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

DATE: October 4, 1999 PRINTED NAME B.W. Salzman

SIGNATURE B.W. Salzman AND TITLE Agent

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 X NO _____ (REASON) _____

SIGNED: K. C. Mando DATE: 10-22-99

Client : Roddy ProductionDate Started : July 1997 Date Completed : September 1999

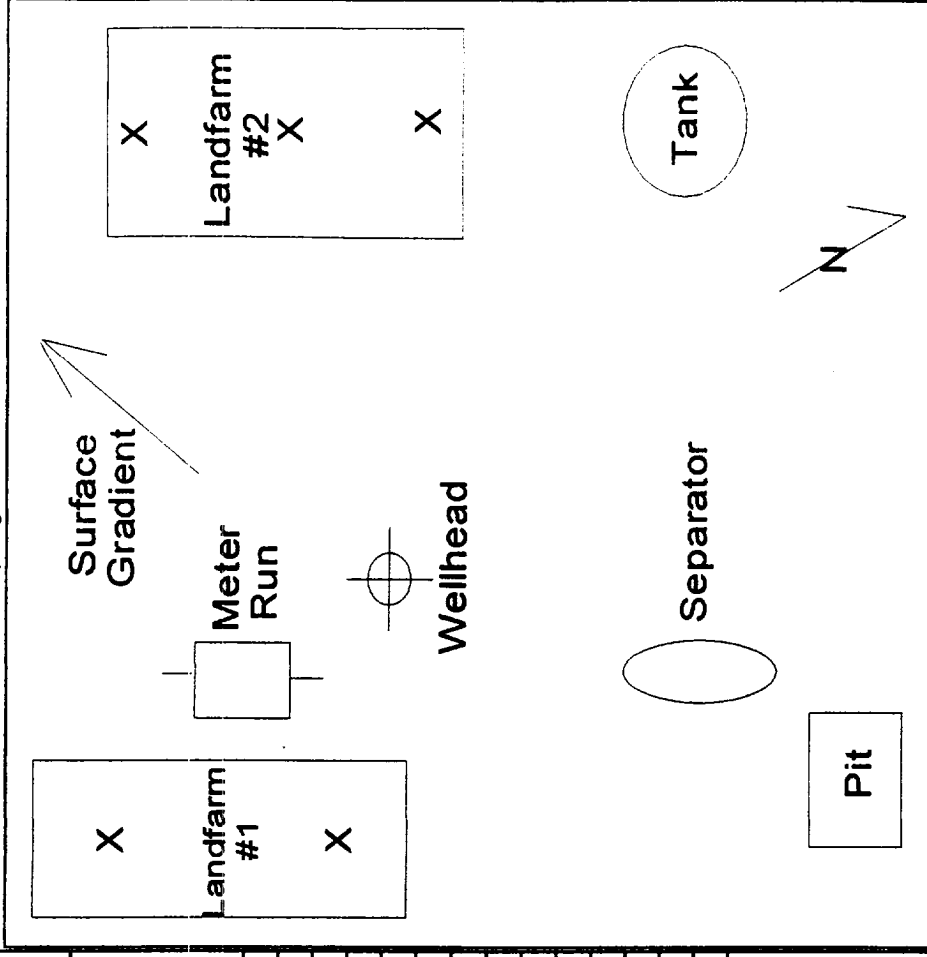
Location: <u>Chacon Jicarilla Apache D-5</u>			
Quad: <u>C</u>	Section: <u>16</u>		
Township: <u>23 N</u>		Range: <u>3 W</u>	
Pits:	Separator and Tank	Sample #	Location
		1	Comp 1
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
1	5 - Point Composite(s)	13	

Reference:
LF #1: 30' south of wellhead
LF #2: 50' west of wellhead

Size: (Approximate)
LF #1: 90' x 30' x 6" deep
LF #2: 80' x 40' x 6" deep

Yds: LF #1: 38 cubic yards
LF #2: 42 cubic yards

Overview of Landfarm and Sampling :

Comments: A sample from composite # 1 was sent to Envirotech for TPH 8015 analysis.Ranking Score : 0 Closure Standard : 5000 ppmPage 1 of 1

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

September 20, 1999

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

Project No.: 99063
Job No.: 906301

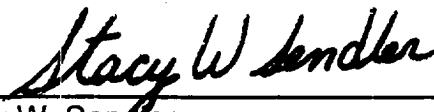
Dear Mr. Salzman,

Enclosed are the analytical results for the sample collected from the location designated as "Jicarilla Land Farms". One soil sample was collected by Roddy Production Company designated personnel on 09/15/99, and delivered to the Envirotech laboratory on 09/16/99 for Total Petroleum Hydrocarbons (TPH) analysis per USEPA Method 8015 Modified.

The sample was documented on Envirotech Chain of Custody No. 7345 and assigned Laboratory No. G080 (CJA D-5) for tracking purposes. The sample was extracted and analyzed on 09/17/99 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.lb6/wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

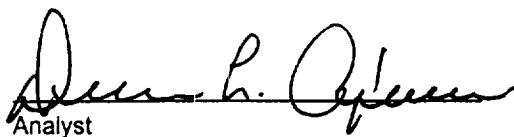
Client:	Roddy Proc. Co.	Project #:	906301
Sample ID:	CJA D - 5	Date Reported:	09-17-99
Laboratory Number:	G080	Date Sampled:	09-15-99
Chain of Custody No:	7345	Date Received:	09-16-99
Sample Matrix:	Soil	Date Extracted:	09-17-99
Preservative:	Cool	Date Analyzed:	09-17-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	52.2	0.1
Total Petroleum Hydrocarbons	52.2	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

7345

ENVIROTECH INC.

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