

SUBMIT COPY TO
 NATURAL RESOURCE DEPT.
 OIL & GAS ADMINISTRATION

OK

DEC

APPROVED

APPROVED

Land Type: _____

Direction from reference: South Degrees _____ East _____ North _____
 _____ of _____
 _____ West _____ South X

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 10/28/97 Date Completed: 10/31/97

Remediation Method: Excavation X Approx. cubic yards 85

(Check all appropriate sections)

Landfirmed X

In situ Bioremediation _____

Other _____

Remediation Location: Onsite X Offsite _____

(i.e. landfirmed onsite,
name and location of
offsite facility)

General Description of Remedial Action: REMOVED CONTAMINATED SOIL, SPREAD
ON LOCATION IN SOIL FARM

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Pit Bottom Center

4 Banks N, S, E, W

Closure Sampling:

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

Sample depth 10'

TPH = ND ppm

METHOD 412.1

PID = 9.0 ppm

Sample date 10/28/97

Sample time 13:40 P

Sample Results

Soil Benzene (ppm) ND

Water Benzene (ppb) N/A

Total BTEX (ppm) 0.01

Toluene (ppb) N/A

Field Headspace (ppm) 65

Ethylbenzene (ppb) N/A

TPH (ppm) ND

Total Xylenes (ppb) N/A

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 11/23/98 PRINTED NAME SHAWN ADAMS

SIGNATURE [Signature] AND TITLE ENV. CONSULTANT

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: [Signature] DATE: 11-25-98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **Shawn Adams**
Company: **Contract Environmental Services, Inc.**
Address: **P.O. Box 3376**
City, State: **Farmington, NM 87499**

Date: **31-Oct-97**
COC No.: **6549**
Sample No.: **16697**
Job No.: **2-1000**

Project Name: **Jicarilla Apache 'H' Tract 2, Well #1**
Project Location: **JAHT2-1-100; Pit Bottom @ 10'**
Sampled by: **DGM** Date: **28-Oct-97** Time: **13:40**
Analyzed by: **HR** Date: **31-Oct-97**
Sample Matrix: **Soil**

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	ND	25	mg/kg	EPA Method 418.1

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	ND	ND	mg/kg
Laboratory Fortified Spike Soil - QCSS1	890	800-1200	mg/kg

Duplication

Laboratory Identification	RPD	Limit RPD
16698-6549	14.9	15.0

Approved by: 
Date: **11/4/97**

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **Shawn Adams**
Company: **Contract Environmental Services, Inc.**
Address: **P.O. Box 3376**
City, State: **Farmington, NM 87499**

Date: **4-Nov-97**
COC No.: **6549**
Sample No.: **16697**
Job No.: **2-1000**

Project Name: **Jicarilla Apache 'H' Tract 2, Well #1**
Project Location: **JAHT2-1-100; Pit Bottom @ 10'**
Sampled by: **DGM** Date: **28-Oct-97** Time: **13:40**
Analyzed by: **DC** Date: **30-Oct-97**
Sample Matrix: **Soil**

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	1	ug/kg
<i>Toluene</i>	ND	ug/kg	5	ug/kg
<i>Ethylbenzene</i>	1	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	7	ug/kg	1	ug/kg
<i>o-Xylene</i>	1	ug/kg	1	ug/kg
	<i>TOTAL</i>	10		ug/kg

ND - Not Detected at Limit of Quantitation

Method - SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography

Approved by: 
Date: **11/4/97**

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **Shawn Adams**
Company: **Contract Environmental Services, Inc.**
Address: **P.O. Box 3376**
City, State: **Farmington, NM 87499**

Date: **31-Oct-97**
COC No.: **6549**
Sample No.: **16696**
Job No.: **2-1000**

Project Name: **Jicarilla Apache 'H' Tract 2, Well #1**
Project Location: **JAHT2-1-101; 4 Bank Composite**
Sampled by: **DGM** Date: **28-Oct-97** Time: **13:30**
Analyzed by: **HR** Date: **31-Oct-97**
Sample Matrix: **Soil**

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	ND	25	mg/kg	EPA Method 418.1

ND - Not Detected at Limit of Quantitation

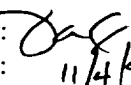
Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	ND	ND	mg/kg
Laboratory Fortified Spike Soil - QCSS1	890	800-1200	mg/kg

Duplication

Laboratory Identification	RPD	Limit RPD
16698-6549	14.9	15.0

Approved by: 

Date: **11/4/97**

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10/30/77

10/30/77

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TECHNOLOGIES, LTD.

LAB: (505) 325-5667 • FAX: (505) 325-6256

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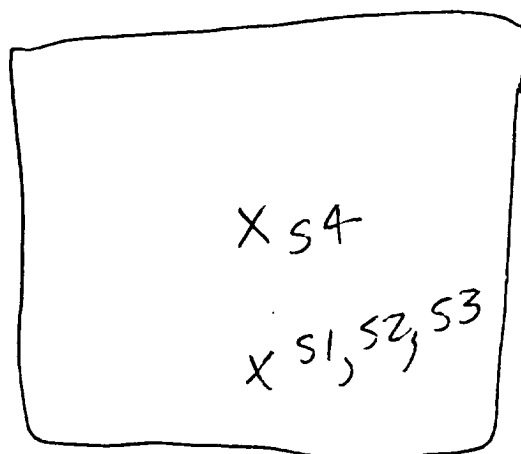
7m Ridge
 A H Tract 2
 Well # 1
 0/28/97

- pit is 13' x 13' x 2'; fence was 15' x 15'
- arrived on-site @ $\approx$ 1220
- took down fence
- site is not in production right now

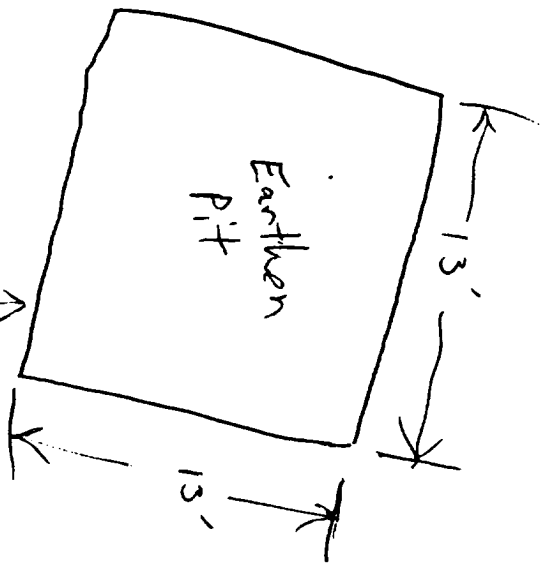
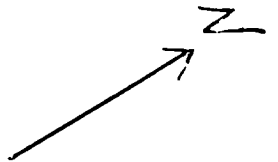
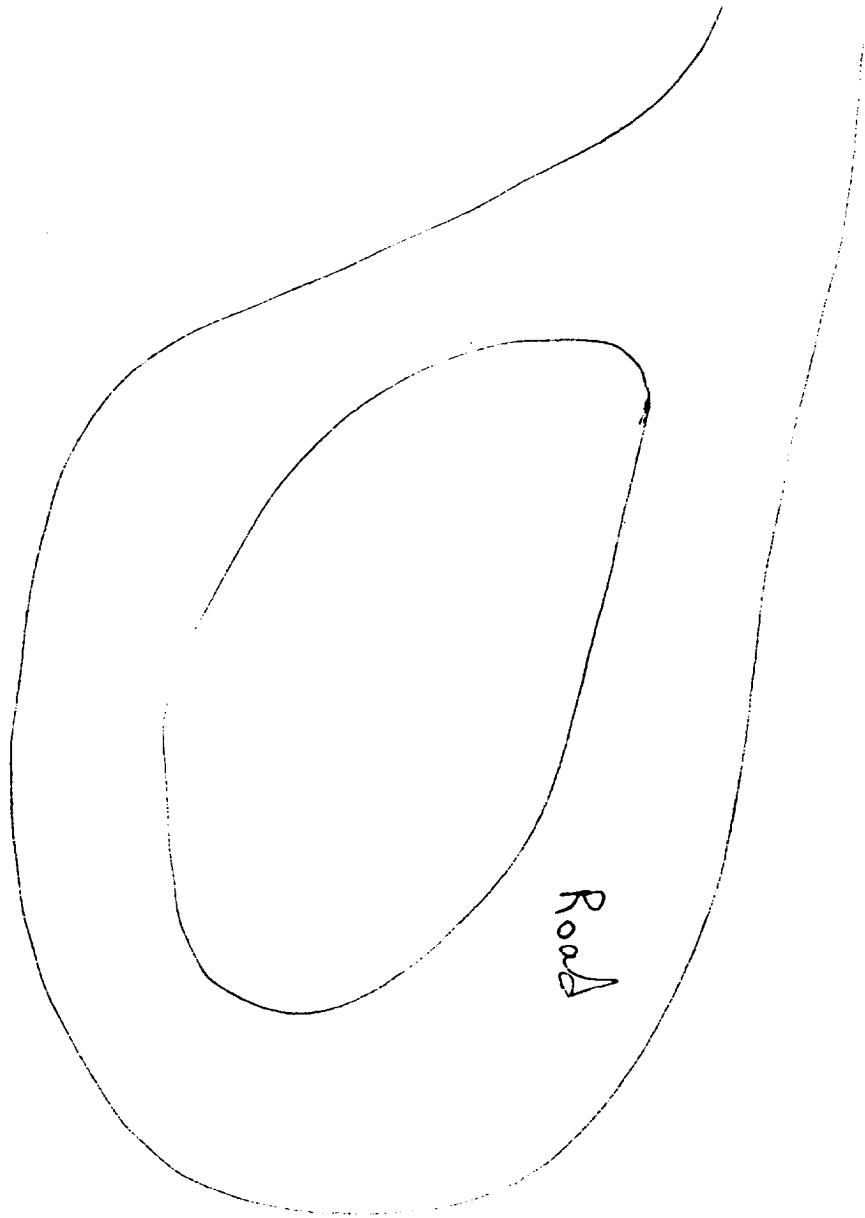
Sample No.	Location	Depth (#)	Conc (ppm)	Remarks
1	pit bottom southside	3	115	
2	" " "	6	90	
3	" " "	10	9	
HT2-1-100 4	mid-pit bottom	10	65	
5	N. Bank - Mid	5	8	
6	S. " "	5	9	
7	E. " "	5	6	
8	W. " "	5	5	

T2-1-101 - 4-Bak Comp

- NE ^{Location} NW 9 - 23N - 2W, Lease No. 09-000158
- pit is 25° East of North @ 58'



Elm Ridge
JA 'H' Tract 2
Well #1
10/28/97
Site Diagram

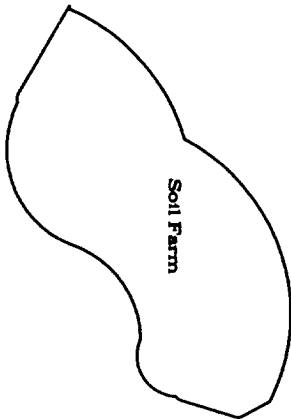


⊗ Well-Head

58'

USDA:	
Q.	
Water	
Oil	
Oil/Water	
Gas/Oil/Water	

Field Data Recorded : _____ Date: _____
 Reviewed : _____ Date: _____
 Drawn : _____ Date: _____



NOTE: CONNECTING PIPING INSTRUCTIONS ARE APPROXIMATE
 FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL LINES MUST BE
 LOCATED ON-SITE BY A QUALIFIED TECHNICIAN.

Elm Ridge Resources

Jicarilla Apache "H" Tract 2 Well 1

Unit Letter 'C' Sec.9, T23N, R2W

Rio Arriba County, New Mexico

Contract Environmental Services, Inc.
 505-325-1198
 Farmington, New Mexico

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

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

OIL COAL DIV.
DIST. 3

ON-SITE SOIL REMEDIATION REPORT

APPROVED

Operator: ELM RIDGE RESOURCES Telephone: (505)326-7099
Address: 312 W. LAPLATA STREET, FARMINGTON, NM 87401
Facility or Well Name: JICARILLA APACHE "H" TRACT 2 WELL #1 LAND FARM
Location: Unit or Qtr/Qtr Sec C Sec 09 T 23N R 2W County RIO ARriba
Land Type: _____

Date Remediation Started: 10/28/97 Date Completed: 10/31/97
Remediation Method: Landfarmed X Approx. cubic yards 85
Composted _____
Other _____

Depth To Groundwater: (pts.) 0
Distance to an Ephemeral Stream (pts.) 10
Distance to Nearest Lake, Playa,
or Watering Pond (pts.) 0
Wellhead Protection Area: (pts.) 0
Distance To Surface Water: (pts.) 0

Final Closure Sampling:

Sampling Date: 7/24/98 Time: 9:25

Sample Results:

Field Headspace (ppm) 1.6 ppm
TPH (ppm) Gas ND Method 8015M
Other DIE ND

RANKING SCORE (TOTAL POINTS): 10

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

DATE 12/22/98 PRINTED NAME SHAWN ADAMS
SIGNATURE Shawn Adams AND TITLE ENV. CONSULTANT

AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON) May be used as backfill, if needed.

SIGNED: Karena L. Callado DATE: 22 DEC 98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 07-Aug-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache T2 W1
Work Order:	9807082	Client Sample ID:	JH21-100 Tract 2 Well 1 LF
Lab ID:	9807082-01A	Matrix:	SOIL
Project:	Pit Remediation	Collection Date:	7/24/98 9:35:00 AM
		COC Record:	6991

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	8/4/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	7/29/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

CONTRACT ENVIRONMENTAL

Daily Site Sheet

Site Name: J. Apache "H" TR 2 WELL 1

Date: 7-24-98

Time Started: 9:18

Time Finished: 9:45

Pit starting size: N/A

Pit size when finished: N/A

Land farm size: 40X50

Distance to wash > or < 100': < 100'

Distance to lake or pond: 21000'

Distance to private or domestic water source > or < 1000': 21000'

P.I.D. Readings

North wall: N/A

South wall: N/A

East wall: N/A

West wall: N/A

Land farm: 1.6

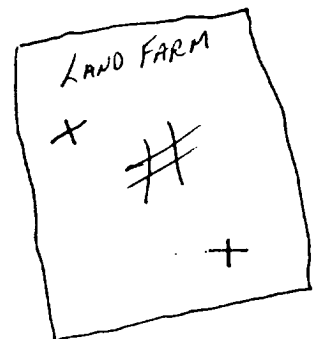
Equipment used: P.S.D, TRACTOR, JAMES KIRBY, LINDA WILSON P.I.D.

Remarks: TURNED LAND FARM TWO TIMES
SAMPLE # JH 21 - 700

X = Sample spot

Site Diagram

N



2011

Page 1 of 1

Purchase Order No.:		Job No.		Title	
Name (Last and Adams)		Company (Contract Environmental Servs)		Dept.	
Address		City, State, Zip		Telephone No.	
FAX		FAX		FAX	
Sampling Location:		Jic. Ap. H T2 w3		Jic. Ap. H T1 w3	
Sampler:		James K.		Jic. Ap. H T2 w3	
SAMPLE IDENTIFICATION		SAMPLE		MATRIX	
DATE		TIME		PRES.	
TH21-100		Treat 2 w3		Soil no	
TH13-101		1 3 landform		1	
TH13-102		1 3 landform		1	
TH13-103		2 3 landform		1	
TH13-104		1 3 landform		1	
TH13-105		1 3 landform		1	
TH13-106		1 3 landform		1	
TH13-107		1 3 landform		1	
TH13-108		1 3 landform		1	
TH13-109		1 3 landform		1	
TH13-110		1 3 landform		1	
TH13-111		1 3 landform		1	
TH13-112		1 3 landform		1	
TH13-113		1 3 landform		1	
TH13-114		1 3 landform		1	
TH13-115		1 3 landform		1	
TH13-116		1 3 landform		1	
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TH13-118		1 3 landform		1	
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