

OK - bedrock

SUBMIT COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

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

APPROVED

PIT REMEDIATION AND CLOSURE REPORT

Operator: ELM RIDGE RESOURCES Telephone: (505) 326-7099

Address: 312 W. LA PLATA STREET
FARMINGTON, NM 87401

Facility or Well Name: JICARILLA APACHE B # 2

Location: Unit or Qtr/Qtr Sec P Sec 20 T24N R5W County RIO ARriba

Pit Type: Separator ☐ Dehydrator ☐ Other Blow

Land Type:

Pit Location:
(Attach diagram)

Pit dimensions: length 25, width 20, depth 15

Reference: wellhead X, other

Footage from reference: 50' E

Direction from reference: Degrees X of 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)	
Greater than 100 feet	(0 points)	<u>10</u>

Distance to Nearest Lake, Playa, or Watering Pond

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

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

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)	<u>0</u>

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)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 8/22/97 Date Completed: 4/20/98

Remediation Method: Excavation X

Approx. cubic yards 10/8

(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: REMOVED CONTAMINATED SOIL, SPREAD
ON LOCATION IN SOIL FARM

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Pit Bottom - CENTER

Closure Sampling:

(if multiple samples,

attach sample results

and diagram of sample

locations and depths)

Sample depth 19-20' DEEP

Sample date 4/20/98

Sample time 3:44 PM

4/30/98
4 BANKS N, S, E, W
GAS ND PPM

DIE ND "

METHOD: BOISM
PID = 2.7

Sample Results

Soil: Benzene (ppm) N/A

Water: Benzene (ppb) N/A

Total BTEX (ppm) N/A

Toluene (ppb) N/A

Field Headspace (ppm) 22.1

Ethylbenzene (ppb) N/A

TPH BOISM (ppm) GAS ND

Total Xylenes (ppb) N/A

DIE 680

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 5/26/98 PRINTED NAME SHAWN ADAMS

SIGNATURE Shawn Adams 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: 5/27/98

CONTRACT ENVIRONMENTAL

DATE 4/20/98 TIME STARTED 15:25 TIME FINISHED 16:00

SITE NAME Sicovilla Apache "B" well 2

PIT SIZE AT START x x PIT SIZE WHEN FINISHED x x

P.I.D READINGS

NORTH WALL #1 _____ #2 _____ #3 _____ FINALE TIME _____

SOUTH WALL #1 _____ #2 _____ #3 _____ FINALE TIME _____

EAST WALL #1 _____ #2 _____ #3 _____ FINALE TIME _____

WEST WALL #1 _____ #2 _____ #3 _____ FINALE TIME _____

WALL COMPOSITE #1 2.7 #2 _____ #3 _____ FINALE TIME 15:35

FLOOR #1 22-1 #2 _____ #3 _____ FINALE TIME 15:44

LAND FARM 15.3 SAMPLE TIME 15:50

SPOIL PILE _____ SAMPLE TIME _____

REMARKS: Rock at 7'

CONTRACT ENVIRONMENTAL

DATE 4/30/98 TIME STARTED 1:00 TIME FINISHED 3:00

SITE NAME Jicarilla Apache "B" well 2

PIT SIZE AT START 20x20x8 PIT SIZE WHEN FINISHED 25x20x9

P.I.D READINGS

NORTH WALL #1 1.8 #2 #3 FINALE TIME 11:38

SOUTH WALL #1 1.5 #2 #3 FINALE TIME 11:38

EAST WALL #1 0.0 #2 #3 FINALE TIME 11:40

WEST WALL #1 60.2 #2 2.1 #3 FINALE TIME 11:40

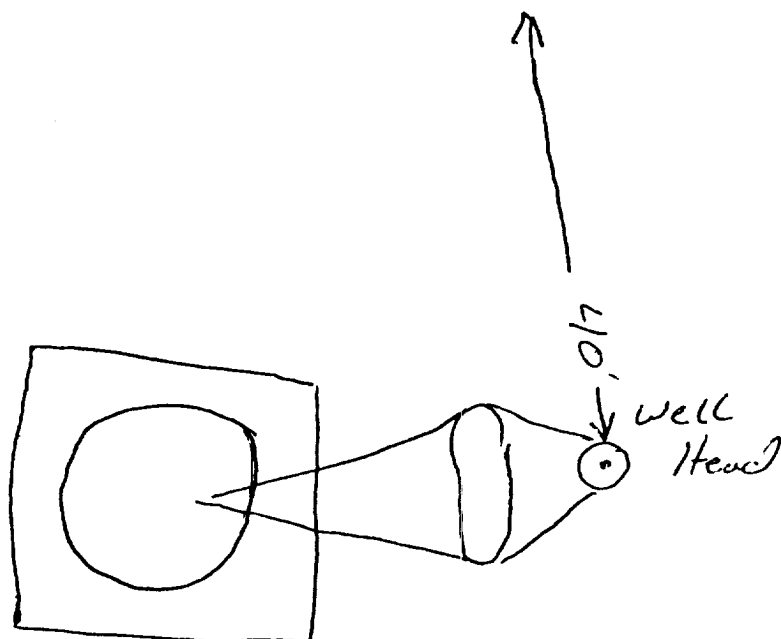
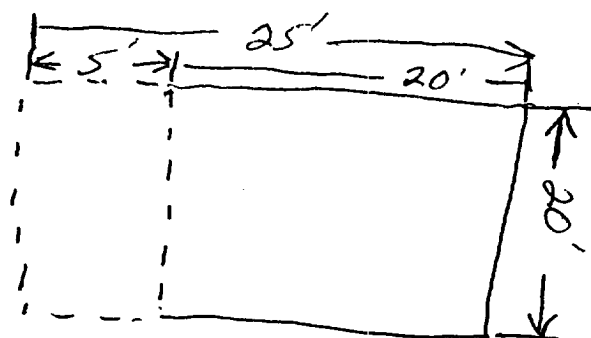
WALL COMPOSITE #1 3.5 #2 #3 FINALE TIME 12:15

FLOOR #1 #2 #3 FINALE TIME

LAND FARM SAMPLE TIME

SPOIL PILE SAMPLE TIME

REMARKS: Stain on west wall
Took 1' OFF the Floor and Hit
Rock at 9'
Took 5' E. OFF The west Wall
we Turned Land Farm



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Apr-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache "B" Well 2
Work Order:	9804028	Client Sample ID:	JAB2-104 Floor
Lab ID:	9804028-05A	Matrix:	SOIL
Project:	Jicarilla Apache "B"	Collection Date:	4/20/98 3:44:00 PM
		COC Record:	4339

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	680	25		mg/Kg	1	Analyst: DC 4/24/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	180		µg/Kg	1	Analyst: HR 4/23/98
Surr: Trifluorotoluene	101.6	70-130		%REC	1	4/23/98

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

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TECHNOLOGY BLENDING INTO ENVIRONMENTAL SCIENCE

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 12-May-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jic. Apache "B" Well 2
Work Order:	9805008	Client Sample ID:	JAB2-100; Wall
Lab ID:	9805008-01A	Matrix:	SOIL
Project:	Jicarilla Apache	Collection Date:	4/30/98 12:15:00 PM
		COC Record:	4373

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	ND	50		mg/Kg	1	Analyst: HR 5/6/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	Analyst: DC 5/5/98

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

1 of 1

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TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

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

SUBMIT TO: JICARILLA APACHE TRIBE
NATURAL RESOURCE DEPT.
AND OIL & GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

APPROVED

Operator: ELM RIDGE RESOURCES Telephone: (505) 326-7099

Address: 312 WEST LA PLATA STREET, FARMINGTON, NM 87401

Facility or Well Name: JICARILLA APACHE "B" WELL #2 LANDFARM

Location: Unit or Qtr/Qtr Sec P Sec 20 T24N R5W County RIO ARriba

Land Type: _____

Date Remediation Started: 8/22/97 Date Completed: 4/20/98

Remediation Method: Landfirmed X Approx. cubic yards 1018

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

RANKING SCORE (TOTAL POINTS): 10

Final Closure Sampling:

Sampling Date: 5/12/98 Time: 12:43

Sample Results:

Field Headspace (ppm) 3.0 ppm

TPH (ppm) Gas- ND Method 8015 M
DIE- 760 ppm

Other _____

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 [Signature] 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 not used as backfill.

SIGNED: Karena L. Callado DATE: 22 DEC 98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Apr-98

Client: Contract Environmental Services, Inc.
Work Order: 9804028
Lab ID: 9804028-06A **Matrix:** SOIL
Project: Jicarilla Apache "B"

Client Sample Info: Jicarilla Apache "B" Well 2
Client Sample ID: JAB2-105 Land Farm
Collection Date: 4/20/98 3:50:00 PM
COC Record: 4339

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	110	25		mg/Kg	1	Analyst: DC 4/24/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	180		µg/Kg	1	Analyst: HR 4/23/98
Surr: Trifluorotoluene	105.3	70-130		%REC	1	4/23/98

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

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1 of 1

Purchase Order No.:		Job No.	
Name: <u>Environ Acutems</u>		Title:	
Company: <u>Contract Fwv.</u>		Company:	
Address: <u>Po Box 3776</u>		Mailing Address: <u>same</u>	
City, State, Zip: <u>Farmington NM 87499</u>		City, State, Zip:	
Sampling Location: <u>Jicarilla Apache "B" well 2</u>		Telephone No.:	
Telefax No.:		Telefax No.:	
SEND INVOICE TO		RESULTS TO	
Name:		Name:	
Company:		Company:	
Address:		Mailing Address:	
City, State, Zip:		City, State, Zip:	
Telephone No.:		Telephone No.:	
Telefax No.:		Telefax No.:	
Sampling Location:		Sampling Location:	
Sampler: <u>James K. Kirby</u>		Sampler:	
SAMPLE IDENTIFICATION		LAB ID	
DATE: <u>4/30/98</u> TIME: <u>12:15</u> MATRIX: <u>Soil</u> PRES: <u>N/A</u>		LAB ID: <u>7805009-01A</u>	
TAB 2 100 wall		P.D. <u>3.5</u>	
Number of Containers		ANALYSIS REQUESTED	
1		Glass 4oz	
4/30/98 12:15		EPA 8015-M	
Soil		P.D. 3.5	
N/A		7805009-01A	
Received by: <u>[Signature]</u>		Received by: <u>[Signature]</u>	
Date/Time: <u>5/4/98</u>		Date/Time: <u>5/4/98 1030</u>	
Received by:		Received by:	
Date/Time:		Date/Time:	
Received by:		Received by:	
Date/Time:		Date/Time:	
Rush		Rush	
24-48 Hours		10 Working Days	
Special Instructions:		Special Instructions:	
Authorized by: <u>[Signature]</u>		Authorized by: <u>[Signature]</u>	
Date: <u>5/4</u>		Date: <u>5/4</u>	
(Client Signature Must Accompany Request)		(Client Signature Must Accompany Request)	

4339

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Page

of

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