

OK -

AND OIL & GAS ADMINISTRATION

DEC

APPROVED

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

Address: 312 W. La Plata Street, Farmington, NM 87401

Facility or Well Name: JICARILLA APACHE B #9

Location: Unit or Qtr/Qtr Sec A Sec 20 T4N R5W County Rio Arriba

Pit Type: Separator ☒ Dehydrator _____ Other _____

Land Type: _____

Pit Location: Pit dimensions: length 30, width 25, depth 12
(Attach diagram)

Reference: wellhead 130' other _____

Footage from reference: X

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

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) 10

Distance to an Ephemeral Stream:
Downgradient dry wash greater than
(feet in width)

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

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) 0

Wellhead Protection Area:
Less than 200 feet from a private
domestic water source, or: less than
100 feet from all other water sources)

Yes (20 points)
No (0 points) 20

Distance To SurfaceWater:
Horizontal distance to perennial
rivers, streams, creeks,
reservoirs, 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): 30

RANKING SCORE (TOTAL POINTS): 30

Date Remediation Started: 8/26/97 Date Completed: 4/20/98

Remediation Method: Excavation X

Approx. cubic yards 333 cy

(Check all appropriate sections)

Landfarmed X

In situ Bioremediation _____

Other _____

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

General Description of Remedial Action: REMOVE 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 11-12' GAS ND (PPB)
DIE ND (PPM)
Sample date 4/20/98 Sample time 4:17 PM METHOD: 8015M
Sample Results PID = 2.7

Soil: Benzene (ppm) N/A Water: Benzene (ppb) N/A

Total BTEX (ppm) N/A Toluene (ppb) N/A

Field Headspace (ppm) 5.5 Ethylbenzene (ppb) N/A

TPH 8015M (ppm) GAS ND (PPB) 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 6/1/98 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: Kurt C. Merrill DATE: 6-1-98

CONTRACT ENVIRONMENTAL

DATE 7/20/98 TIME STARTED 16:05 TIME FINISHED 16:30

SITE NAME Sicavilla Alache "B" well 9

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 _____

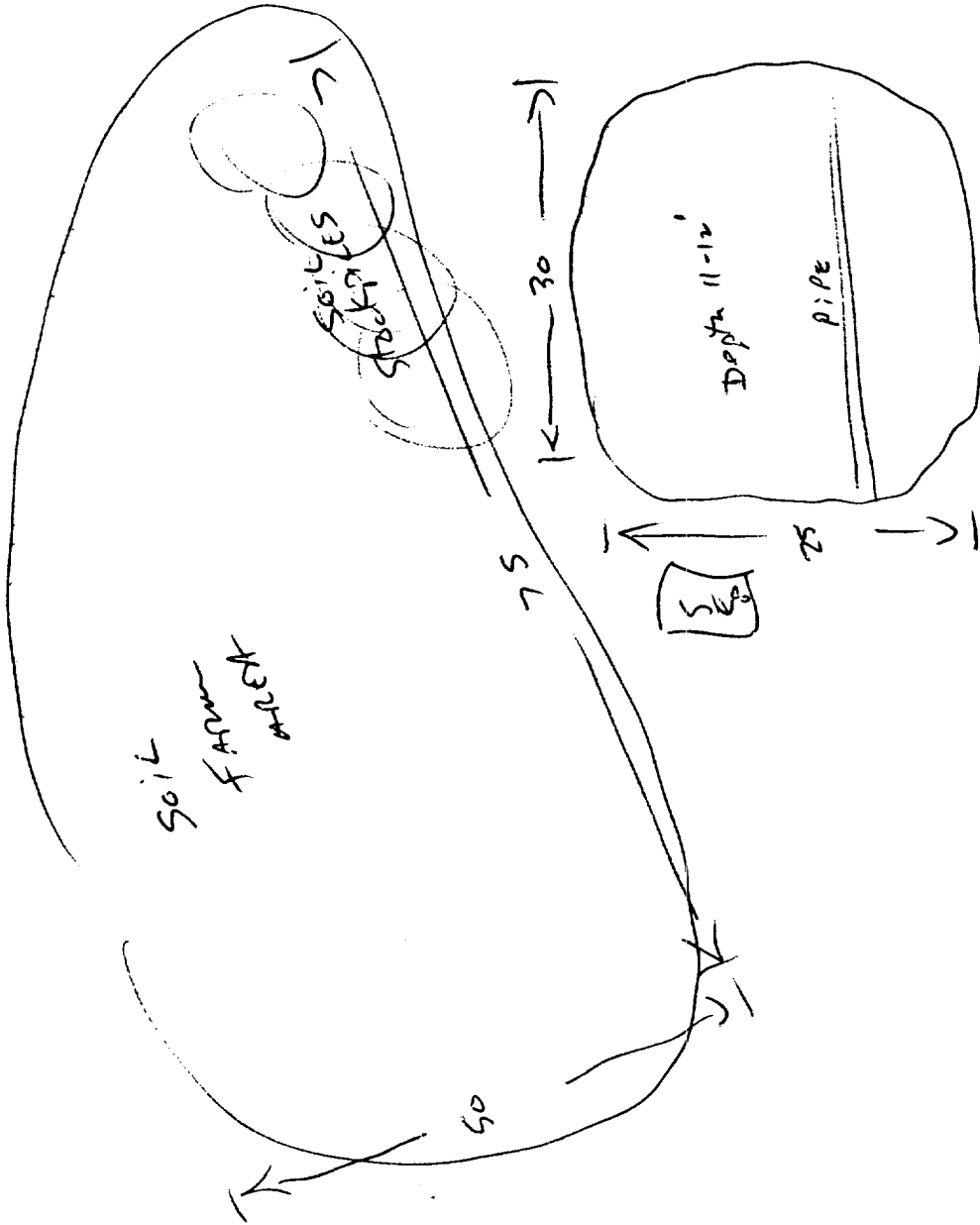
WALL COMPOSITE #1 2.7 #2 _____ #3 _____ FINALE TIME 16:10

FLOOR #1 5.5 #2 _____ #3 _____ FINALE TIME 16:17

LAND FARM 2.7 SAMPLE TIME 16:28

SPOIL PILE _____ SAMPLE TIME _____

REMARKS: _____



400
BBL
TANK

(DEITY)

on top

Fiber
glass
Pipe

© 2014

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 9
Work Order:	9804028	Client Sample ID:	JAB9-107 Floor
Lab ID:	9804028-08A	Matrix:	SOIL
Project:	Jicarilla Apache "B"	Collection Date:	4/20/98 4:17:00 PM
		COC Record:	4339

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	ND	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	100.8	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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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 9
Work Order:	9804028	Client Sample ID:	JAB9-106 Wall
Lab ID:	9804028-07A	Matrix:	SOIL
Project:	Jicarilla Apache "B"	Collection Date:	4/20/98 4:10:00 PM
		COC Record:	4339

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	ND	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	100.6	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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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

SUBMIT COPY TO:
NATURAL RESOURCE DEPT.
AND OIL & GAS ADMINISTRATION

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 "B" WELL #9 LANDFARM

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

Land Type: _____

Date Remediation Started: 8/26/97 Date Completed: 4/20/98

Remediation Method: Landfilled X Approx. cubic yards 333

Composted _____

Other _____

Depth To Groundwater: (pts.) 10

Distance to an Ephemeral Stream (pts.) 0

Distance to Nearest Lake, Playa, or Watering Pond (pts.) 0

Wellhead Protection Area: (pts.) 20

Distance To Surface Water: (pts.) 0

RANKING SCORE (TOTAL POINTS): 30

Final Closure Sampling:

Sampling Date: 4/20/98 Time: 4:28

Sample Results:

Field Headspace (ppm) 2.7

TPH (ppm) GAS - ND Method 8015 M
DCE - ND 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 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: 28-Apr-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache "B" Well 9
Work Order:	9804028	Client Sample ID:	JAB9-108 Land Farm
Lab ID:	9804028-09A	Matrix:	SOIL
Project:	Jicarilla Apache "B"	Collection Date:	4/20/98 4:28:00 PM
		COC Record:	4339

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	ND	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	101.9	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

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

ON SITE

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

Date: 4/20/98

Page 1 of 1

40001

Purchase Order No.:		Job No.			
Name: Shawn Adams		Title:			
Company: Contract Envi.		Company:			
Address: P.O. Box 3726		Mailing Address:			
City, State, Zip: Farmington NM 87499		City, State, Zip: 50 M 2			
Sampling Location: Jicarilla Apache B well 16		Telephone No. 505-1198			
Jicarilla Apache B well 2		Telefax No.:			
Jicarilla Apache B well 9		ANALYSIS REQUESTED			
Sampler: James K. Kildy					
SAMPLE IDENTIFICATION					
	SAMPLE	DATE		MATRIX	PRES.
		DATE	TIME		
JBK 100	Wall	4/20/98	17:58	Soil	N/A
JBK 101	Floor	4/20/98	15:07	Soil	N/A
JBK 102	Land Farm	4/20/98	15:11	Soil	N/A
JAB 103	Wall	4/20/98	15:36	Soil	N/A
JAB 104	Floor	4/20/98	15:44	Soil	N/A
JAB 105	Land Farm	4/20/98	15:50	Soil	N/A
JAB 106	Wall	4/20/98	16:10	Soil	N/A
JAB 107	Floor	4/20/98	16:17	Soil	N/A
JAB 108	Land Farm	4/20/98	16:28	Soil	N/A
Signature: [Signature]					
Relinquished by:		Date/Time 4/21/98		Received by: Heidi Russ	
Relinquished by:		Date/Time		Received by:	
Relinquished by:		Date/Time		Received by:	
Method of Shipment:		Date/Time		Date/Time	
Authorized by:		Date 4/21		Date/Time	
(Client Signature Must Accompany Request)				Special Instructions:	
Rush		24-48 Hours		10 Working Days	
SAS				Goldenrod - Client	