

SURMIT COPY
 NATURAL RESOURCES
 AND OIL & GAS ADMINISTRATION

300 -

APPROVED

Land Type: _____

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

RANKING SCORE (TOTAL POINTS): 6

Date Remediation Started: 8/21/97 Date Completed: 4/20/98

Remediation Method: Excavation X Approx. cubic yards 150 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: 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 8-9'

GAS ND (PPB)

DIE 120 (PPM)

Sample date 4/20/98

Sample time 3:07 PM

METHOD: 8015m

PID = 1.3 (PPM)

Sample Results

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

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

Field Headspace (ppm) 6.9 Ethylbenzene (ppb) N/A

TPH 8015 (ppm) GAS ND (PPB) Total Xylenes (ppb) N/A
DIE 150 (PPM)

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: Kevin M... DATE: 6-1-98

CONTRACT ENVIRONMENTAL

DATE 1/24/98 TIME STARTED 14:45 TIME FINISHED

SITE NAME Jicarilla Apache "B" well 12

PIT SIZE AT START x PIT SIZE WHEN FINISHED 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 1.3 #2 #3 FINALE TIME 14:52

FLOOR #1 6.9 #2 #3 FINALE TIME 15:07

LAND FARM 27.6 SAMPLE TIME 15:11

SPOIL PILE SAMPLE TIME

REMARKS: Rock at 6'

5/12/98

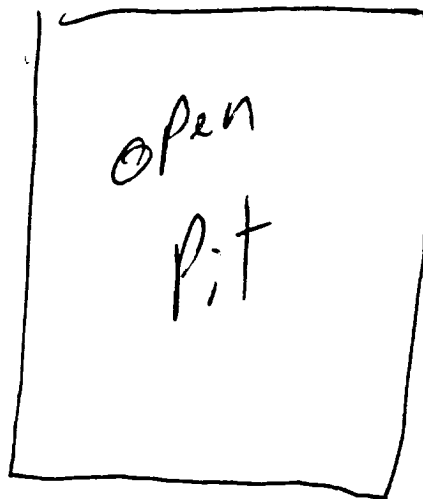
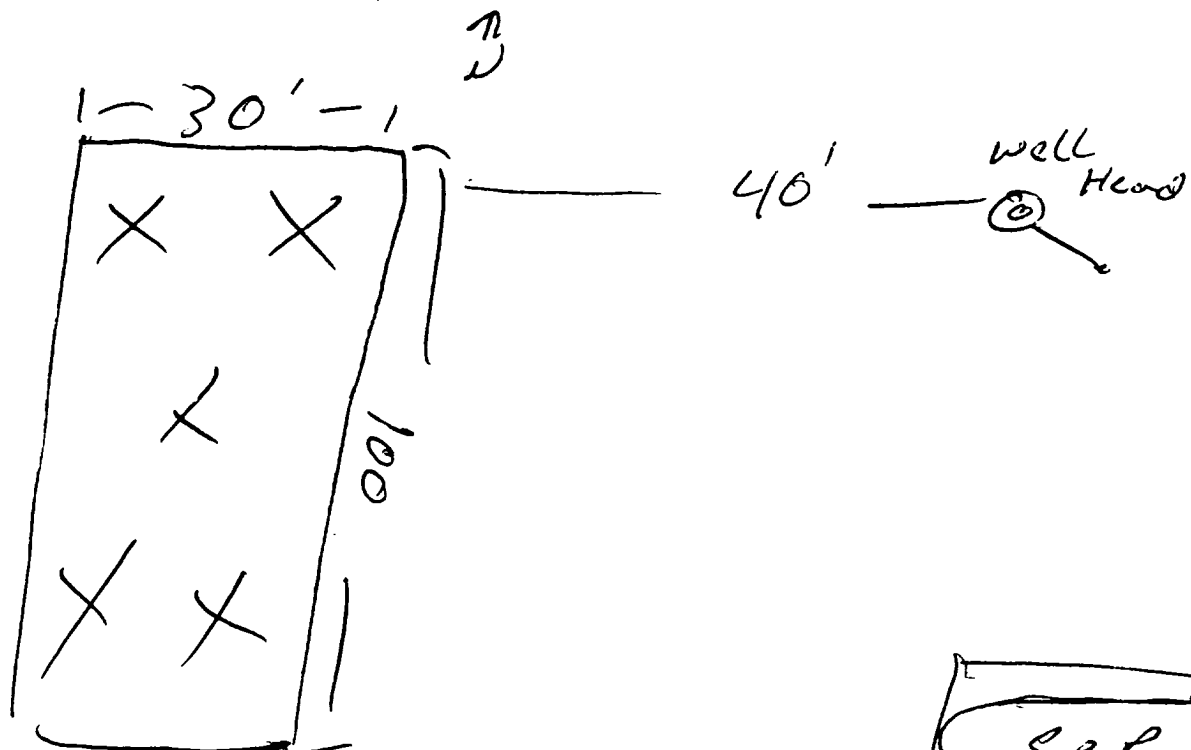
Time in 12:51

Time out 12:58

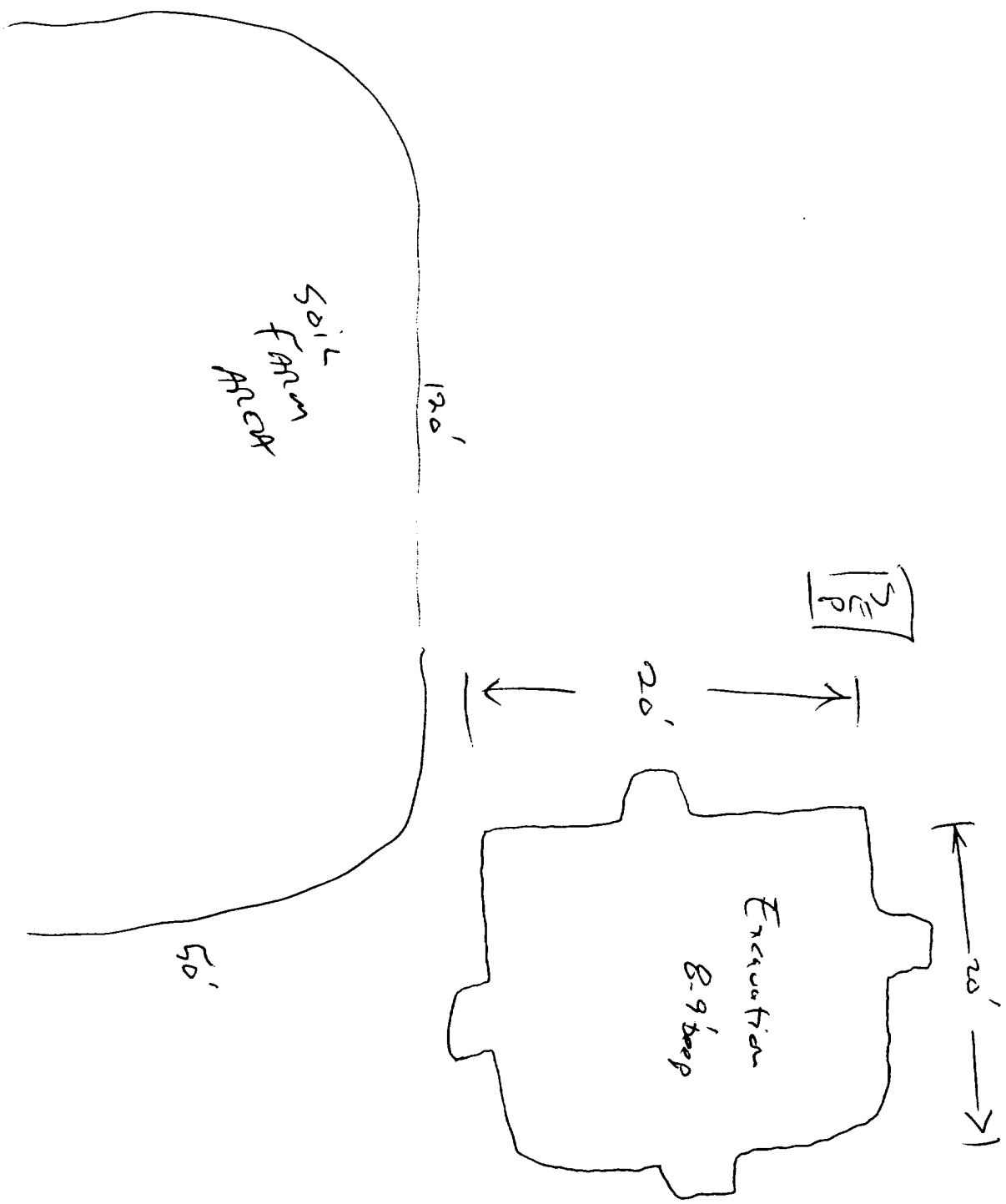
J. Apache "B" well 16

Pid 6.0

Time 12:55-



W1122A
①



27

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 16
Work Order:	9804028	Client Sample ID:	JB16-101 Floor
Lab ID:	9804028-02A	Matrix:	SOIL
Project:	Jicarilla Apache "B"	Collection Date:	4/20/98 3:07:00 PM
		COC Record:	4339

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
. T/R Hydrocarbons: C10-C28	150	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	104.3	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

P.O. BOX 2606 • FARMINGTON, NM 87499

TECHNOLOGY RESOURCES INTERNATIONAL, INC.

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 16
Work Order:	9804028	Client Sample ID:	JB16-100 Wall
Lab ID:	9804028-01A	Matrix:	SOIL
Project:	Jicarilla Apache "B"	Collection Date:	4/20/98 2:56:00 PM
		COC Record:	4339

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	120	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	98.2	70-130		%REC	1	4/23/98

Qualifiers:

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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

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

SUBMIT TO: 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 #16 LANDFARM
Location: Unit or Qtr/Qtr Sec K Sec 29 T 24N R 5W County RIO ARriba
Land Type: _____

Date Remediation Started: 8/21/97 Date Completed: 4/20/98
Remediation Method: Landfarmed X Approx. cubic yards 150 c.y.
Composted _____
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

Final Closure Sampling:

Sampling Date: 5/12/98 Time: 12:55

Sample Results:

Field Headspace (ppm) 6.0 ppm

TPH (ppm) GAS - ND Method 8015M
DIE - 780

Other _____

RANKING SCORE (TOTAL POINTS): 0

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 be used as backfill.

SIGNED: Karena L. Callado DATE: 22 DEC 98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 21-May-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache B Well 16
Work Order:	9805038	Client Sample ID:	JB16-108 Land Farm
Lab ID:	9805038-10A	Matrix:	SOIL
Project:	Land Farms	Collection Date:	5/12/98 12:55:00 PM
		COC Record:	4381

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	780	25		mg/Kg	1	Analyst: DC 5/20/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	Analyst: DC 5/15/98

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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

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 16

Work Order: 9804028

Client Sample ID: JB16-102 Land Farm

Lab ID: 9804028-03A **Matrix:** SOIL

Collection Date: 4/20/98 3:11:00 PM

Project: Jicarilla Apache "B"

COC Record: 4339

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	1400	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	82.6	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

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

[illegible]

Distribution:	White - On Site	Yellow - LAB	Pink - Sampler	Goldenrod - Client
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CHAIN OF CUS. ODY RECORD

4381

ON SITE

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

Date: 5/12/98

Page 1 of 1

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:	
Telephone No.: 325-1198		Telephone No.:	
Telefax No.:		Telefax No.:	
SEND INVOICE TO		RESULTS TO	
Name: Shawn Adams		Name: Shawn Adams	
Company: Contract Envi.		Company: Contract Envi.	
Address: P.O. Box 3726		Mailing Address:	
City, State, Zip: Farmington, NM. 87499		City, State, Zip:	
Telephone No.: 325-1198		Telephone No.:	
Telefax No.:		Telefax No.:	
Sampling Location: MARCUS A-4 Rincón No. 21, MAPAS 3-R		ANALYSIS REQUESTED	
Mi. BEE No. 7-C Jicarilla Apache F. well #1, Jicarilla Apache F. well #2			
J. Apache F. well #1, J. Apache F. well #2, J. Apache F. well #3			
J. Apache F. well #4			
J. Apache F. well #5			
J. Apache F. well #6			
J. Apache F. well #7			
J. Apache F. well #8			
J. Apache F. well #9			
J. Apache F. well #10			
J. Apache F. well #11			
J. Apache F. well #12			
Sampler: James Kirby			
SAMPLE IDENTIFICATION		LAB ID	
NAME	DATE	MATRIX	PRES.
MAR4 100 Land Farm	5/12/98 09:50	Soil	N/A
Rin21 101 Land Farm	5/12/98 10:00	Soil	N/A
MAR3E 102 Land Farm	5/12/98 10:09	Soil	N/A
MAR7C 103 Land Farm	5/12/98 10:17	Soil	N/A
JAF14 104 Land Farm	5/12/98 11:27	Soil	N/A
JAF2 105 Land Farm	5/12/98 11:47	Soil	N/A
JAF4 105 Land Farm	5/12/98 12:00	Soil	N/A
JAF9 106 Land Farm	5/12/98 12:15	Soil	N/A
JAB2 107 Land Farm	5/12/98 12:43	Soil	N/A
JB16 108 Land Farm	5/12/98 12:55	Soil	N/A
JB12 109 Land Farm	5/12/98 13:05	Soil	N/A
JB13 110 Land Farm	5/12/98 13:26	Soil	N/A
Relinquished by: [Signature]		Date/Time: 5/13/98 0807	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Method of Shipment:		Special Instructions:	
Authorized by: [Signature]		Date: 5/12/98	
(Client Signature Must Accompany Request)			
Rush		24-48 Hours	
JAF14-104		REST	
JB15-110		STD	
Pink Sampler		Collected	