

DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE

FEB 08 1999 ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507

P.O. BOX 507

DULCE, NEW MEXICO 87528

SUBSIDIARY 1 (CONT'D) 18

NATURAL RESOURCE UNIT

AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

Operator: Williams Production Company Telephone: 918-561-6250

Address: P.O. Box 3102, MS 37-4 Tulsa Ok. 74101

Facility or Well Name: JICARUA 93 #12 MV

Location: Unit or Qtr/Qtr Sec. F Sec. 34 T27N R.3W County RIO ARriba

Unit Type: Separator___ Dehydrator___ Other PRODUCTION

and Type: JICARILLA APACHE RESERVATION

if Location: Pit dimensions: length 16', width 16', depth 3'

nach "Zurich")

Reference: wellhead _____, other _____

Footage from reference: _____

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

Depth To Groundwater:

vertical distance from -
stagnants 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

down gradient dry wash greater than
3 (out in width)

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

Distance to Nearest Lake, Playa, or Watering Pond

owngradient lakes, playas and
stock or wildlife watering ponds)

d. 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) 0

iv To Surface Water:

→ usual distance to perennial 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)

RANKING SCORE (TOTAL POINTS): 100

Date Remediation Started: 8/24/98 Date Completed: 8/25/98

Remediation Method: Excavation X Approx. cubic yards 488

(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: ON-SITE LANDFARMING

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location _____

Closure Sampling: JICARILLA 93#12 MV

(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 22' + SIDE WALLS

Sample date 9/3/98 Sample time 1242

Sample Results

BOTT. WALL

Soil: Benzene (ppm) ND/ND Water: Benzene (ppb) _____

Total BTEX (ppm) ND/.0314 Toluene (ppb) _____

Field Headspace (ppm) 3.3/25 Ethylbenzene (ppb) _____

TPH (ppm) ND/ND 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 10/22/98 PRINTED NAME Don Fernald

SIGNATURE [Signature] AND TITLE Project Manager

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: 10/23/98

Drawing not to scale.

X=Wall Samples

◆=Bottom Sample



- Wall Samples Collected on 8/25/98
- Bottom Sample Collected on 9/3/98:
22 feet bgs.

Dehy

Fiber Glass

Tank

Meter House

Meter House

Well
Lead

Stock Tank

Sep

24 feet

X PID=0.5 ppm

X PID=3.4 ppm

X PID=10.2 ppm

25 feet

◆ Bottom PID=3.3 ppm

Depth of pit=22 feet
Approximately 488 cubic yds
excavated

X PID=5.0 ppm

Tank

Tank

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 10-Sep-98

Client:	Philip Environmental	Client Sample Info:	William Prod. Pit
Work Order:	9809007	Client Sample ID:	Jicarilla 93 #12
Lab ID:	9809007-01A	Matrix:	SOIL
Project:	18684 1000.77	Collection Date:	8/25/98 2:00:00 PM
		COC Record:	C2301

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/4/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	9/3/98
BTEX		SW8020A				Analyst: HR
Benzene	ND	1		µg/Kg	1	9/3/98
Toluene	2.7	2		µg/Kg	1	9/3/98
Ethylbenzene	1.7	1		µg/Kg	1	9/3/98
m,p-Xylene	17	2		µg/Kg	1	9/3/98
o-Xylene	10	1		µg/Kg	1	9/3/98

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

Chain of Custody Record

(505) 326-2262 Phone
(505) 326-2388 FAX

TABLE 1

Received By:

Samples Iced: ☒ Yes ☐ No		Carrier:	Airbill No.
Preservatives (ONLY for Water Samples)		Shipping and Lab Notes:	
☐ Cyanide Sodium hydroxide (NaOH)			
☐ Volatile Organic Analysis Hydrochloric acid (HCl)			
☐ Metals Nitric acid (HNO ₃)			
☐ TPH (418.1) Sulfuric acid (H ₂ SO ₄)			
☐ Other (Specify)			
☐ Other (Specify)			

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 25-Sep-98

Client:	Philip Environmental	Client Sample Info:	Williams Production Pits
Work Order:	9809015	Client Sample ID:	Jicarilla 93-12 Bottom
Lab ID:	9809015-01A	Matrix:	SOIL
Project:	18684 1000-.77	Collection Date:	9/3/98 12:42:00 PM
		COC Record:	C2302

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/18/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	9/14/98
BTEX		SW8020A				Analyst: HR
Benzene	ND	1		µg/Kg	1	9/17/98
Toluene	ND	2		µg/Kg	1	9/17/98
Ethylbenzene	ND	1		µg/Kg	1	9/17/98
m,p-Xylene	ND	2		µg/Kg	1	9/17/98
o-Xylene	ND	1		µg/Kg	1	9/17/98

Qualifiers:

PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
B - Analyte detected in the associated Method Blank	Surrogate - Surrogate

Chain of Custody Record

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...the ... of ...

Relinquished by:				Received By:			
Signature	Date	Time	Signature	Date	Time		
Steve Archuleta	9-3-98	1830	Steve Archuleta	9-10-98	0855		
Joe Archuleta	9/10/98	0912	Heidi Reese	9/10/98	0912		

1764/95

8/24/98

TICKET # 93 #12

Arrived at location at 1515

Pit size was 18x16x2 90x

didn't appear to be dirty so

we dug a sample hole in center

of pit we checked it at surface

it was 0 ppm we checked it

again at 6' it was 0 ppm

we dug to 10' and checked it it

was 0 ppm

Mike & I called Mike to decide

if we could take a grab and

run it He thought we should

dig down to the Hoe extended

and take a grab pull fence back

up and call it good

we also talk to the switcher

he said that water was the only

thing put in it

at 15' we it like a shovel 14Yen

it was 15 ppm at 17' I took

another reading it was 205 ppm

we ~~started~~ started EXCAVATING

Pit This was at 1605 we finished

digging original pit area at 1705

I took a reading on the bottom it was

50 ppm it is ^{18.5} deep we

will sample it thing in the morning

8/25/98

Arrived at 0800 Cleared
bottom up and dug down another
12" it was 242 ppm I continued
to excavate and it rock at
I took ~~and~~ Reading on the
North wall it was 133 ppm
the switcher still isn't there
at 0845 they are going to
have to move Equipment so we
can move out

I called William at 0900 Ron arrived
shortly after that I told him we
needed to move separator & tank
to continue excavating and will be
was taking care of that we
would go and dig test hole in
the next 2 pit they are both
pretty nasty and Equipment
will have to be moved This
took about 1/2 hour we then came
back and pulled separator out of
the way this took about another
1/2 hour we then pulled fence
and started excavating on the East
side ~~where~~ ^{where} separator^s sitting we
dug another 2 bucket wide and I
took a reading it was 4.5 ppm

we moved over to west side next
to tank and went 2 more bucket
wide I check it ~~it~~ was 15 ppm
after that I dug on north wall
and took about another 20 lbs
bucket we check it ~~it~~ was
20 ppm then we dug south
wall

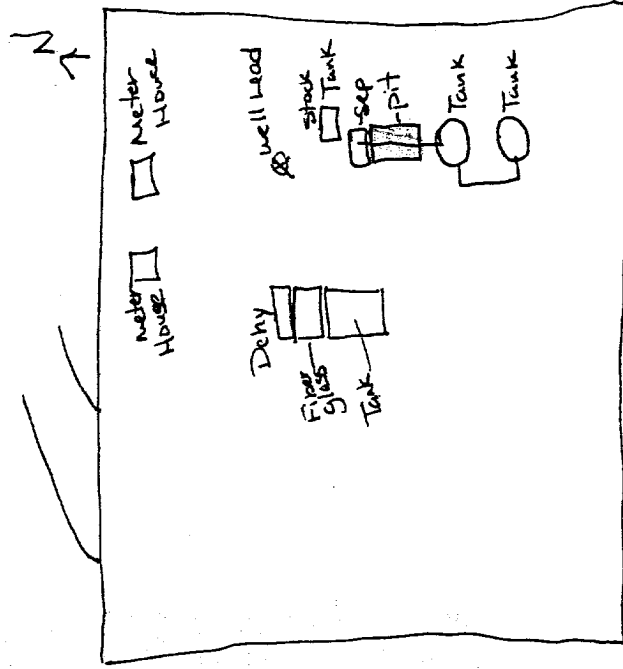
East wall	10.2 ppm	
West wall	3.4 ppm	(9.3.98)
North wall	0.5 ppm	sample out of
South wall	5.0 ppm	Bottom
Bottom	77. ppm	Headspace (3.3 ppm)
Composite	25.0 ppm	

TOOK SAMPLE AT 1400

Pit size was $25 \times 24 \times 22' = 488 \text{ yds}$
we ~~will~~ put fence up while I
did paper work we left location
at 1430

Williams Prod.
Jic. 93 No. 12

2 Tank sitting south of pit with
1" line going directly over pit.
Sep. sitting ~~south~~ north of pit needs to
be moved.
Stack Tank northeast of pit might be
o.k. where it is.
Room for land southwest of pit.



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

SUBMIT TO: P. 10
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>Williams Production Company</u>		Telephone: <u>918-561-6250</u>
Address: <u>P.O. Box 3102, MS 37-4, Tulsa, OK 74101</u>		
Facility or Well Name: <u>Jicarilla 93 #12 MV</u>		
Location: Unit or Qtr/Qtr Sec <u>F</u> Sec <u>34</u> T <u>27N</u> R <u>3W</u> County <u>Rio Arriba</u>		
Land Type: <u>Jicarilla Apache Reservation</u>		
Date Remediation Started: <u>8/24/98</u>		Date Completed: <u>10/14/98</u>
Remediation Method: Landfarmed <u>X</u>		Approx. cubic yards <u>488</u>
Composted <u> </u>		
Other <u> </u>		
Depth To Groundwater: (pts.) <u>0</u>	Final Closure Sampling:	
Distance to an Ephemeral Stream (pts.) <u>0</u>	Sampling Date: <u>9/30/98</u> Time: <u>1410</u>	
Distance to Nearest Lake, Playa, or Watering Pond (pts.) <u>0</u>	Sample Results:	
Wellhead Protection Area: (pts.) <u>0</u>	Field Headspace (ppm) <u>8.8</u>	
Distance To Surface Water: (pts.) <u>0</u>	TPH (ppm) <u>ND</u> Method <u>8015</u>	
	Other <u>BTEX - METHOD 8020</u>	
RANKING SCORE (TOTAL POINTS): <u>0</u>	<u>0015</u> (PPM)	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF		
DATE <u>10/22/98</u>	PRINTED NAME <u>Don Fernald</u>	
SIGNATURE <u>[Signature]</u>	AND TITLE <u>Project Manager</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.		
APPROVED: YES <u>X</u> NO <u> </u> (REASON) <u>OK to use as back fill</u>		
SIGNED: <u>[Signature]</u>		DATE: <u>10/23/98</u>

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 14-Oct-98

Client:	Philip Environmental	Client Sample Info:	Williams Production Pits
Work Order:	9810002	Client Sample ID:	Jicarilla 93 #12 Landfarm
Lab ID:	9810002-02A	Matrix:	SOIL
Project:	18684 3500.77 (1200.77)	Collection Date:	9/30/98 2:10:00 PM
		COC Record:	C2284

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	10/9/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	10/7/98
BTEX		SW8020A				Analyst: DC
Benzene	ND	1		µg/Kg	1	10/8/98
Toluene	ND	2		µg/Kg	1	10/8/98
Ethylbenzene	ND	1		µg/Kg	1	10/8/98
m,p-Xylene	ND	2		µg/Kg	1	10/8/98
o-Xylene	1.5	1		µg/Kg	1	10/8/98

Qualifiers:

PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
B - Analyte detected in the associated Method Blank	Surr: - Surrogate

1 of 1

Chain of Custody Record

4000 Monroe Road
Farmington, NM 87401

(505) 326-2262 Phone
(505) 326-2388 FAX

COC Serial No. C 2284

[illegible]

Relinquished by:		Received By:	
Signature	Date	Signature	Date
<i>[Signature]</i>	9/30/98	<i>[Signature]</i>	10/1/98
<i>[Signature]</i>	10-1-98	<i>[Signature]</i>	10/1/98

Samples Iced: ☒ Yes ☐ No		Carrier:	Airbill No.
Preservatives (ONLY for Water Samples)			
☐ Cyanide	 Sodium hydroxide (NaOH)		
☐ Volatile Organic Analysis	 Hydrochloric acid (HCl)		
☐ Metals	 Nitric acid (HNO ₃)		
☐ TPH (418.1)	 Sulfuric acid (H ₂ SO ₄)		
☐ Other (Specify)			
☐ Other (Specify)			
		Shipping and Lab Notes:	

9/30/98

Jica-illa 93 #12 18684 3-00.75

1403 Conc after Rabbit plowed
it dug down with a Shovel and
went to Hard Soil under land farm
Took a Composite it was 8.8 ppm
Heated Head space sample Time 1410

N

