

OK
p. + diagram
list 1

Denny E. Frost JICARILLA APACHE TRIBE
DEPUTY OIL & GAS INSPECTOR ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
FEB 03 1993 DULCE, NEW MEXICO 87528

SUBMIT COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: Williams Production Company Telephone: 918-561-6250
Address: P.O. Box 3102, MS 37-4 Tulsa Ok. 74101
Facility or Well Name: JICARILLA 92 #116
Location: Unit or Qtr/Qtr Sec E Sec 30 T 27N R 3W County RIO ARriba
Type: Separator Dehydrator Other PRODUCTION
Land Type: JICARILLA APACHE RESERVATION

Location: Pit dimensions: length 25', width 25', depth 3'
Reference: wellhead , other
Footage from reference:
Direction from reference: Degrees East North
 West South

Depth To Groundwater: Less than 50 feet (20 points)
critical distance from 50 feet to 99 feet (10 points)
contaminants to seasonal Greater than 100 feet (0 points) 0
high water elevation of groundwater)

Distance to an Ephemeral Stream: Less than 100 feet (10 points)
own gradient dry wash greater than Greater than 100 feet (0 points) 0
(feet in width)

Distance to Nearest Lake, Playa, or Watering Pond: Less than 100 feet (10 points)
own gradient lakes, playas and Greater than 100 feet (0 points) 0
stock or wildlife watering ponds)

Wellhead Protection Area: Yes (20 points)
less than 200 feet from a private No (0 points) 0
domestic water source, or: less than
200 feet from all other water sources)

Distance To Surface Water: Less than 100 feet (20 points)
own distance to perennial 100 feet to 1000 feet (10 points)
ponds, rivers, streams, creeks, Greater than 1000 feet (0 points) 0
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 9/9/98 Date Completed: 9/10/98

Remediation Method: Excavation X Approx. cubic yards 1284

(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: ON-SITE LAND FARMING

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location _____
Closure Sampling: JICARILLA 92 #16 (ROCK ENCOUNTERED)
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 14' + SIDE WALLS
Sample date 9/10/98 Sample time 1425

Sample Results BOY WALL
Soil: Benzene (ppm) ND/ND Water: Benzene (ppb) _____
Total BTEX (ppm) ND/.0016 Toluene (ppb) _____
Field Headspace (ppm) ND/ND 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) _____

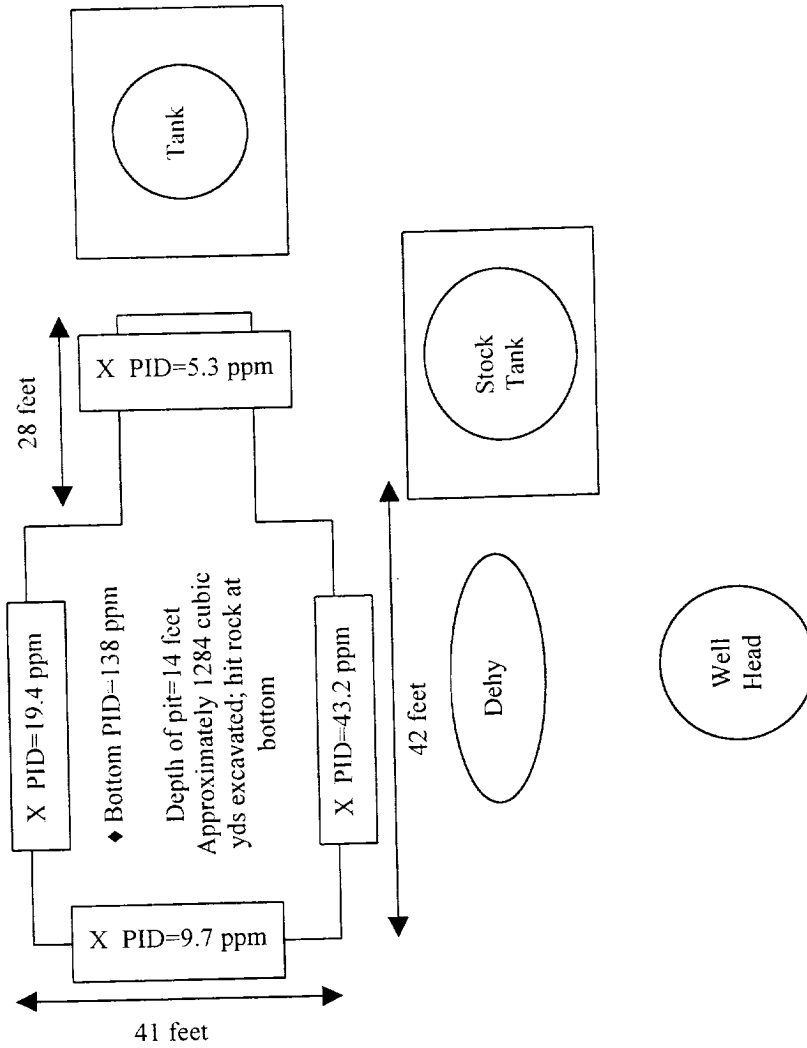
SIGNED: [Signature] DATE: 10/23/98

Drawing not to scale.

X=Wall Samples

◆ =Bottom Sample

- Soil Samples Collected 9/10/98; Bottom Sample collected at 14 feet bgs



Dehy

Meter House

Tank

Stock Tank

Dehy

Well Head

Jicarilla 92 #16

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: 9809024

Client Sample ID: Jic. 92 #16 Wall Comp.

Lab ID: 9809024-01A Matrix: SOIL

Collection Date: 9/10/98 2:25:00 PM

Project: 18684 1000.77

COC Record: C2295

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/22/98
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	1.6	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

Surr: - Surrogate

1 of 1

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:	9809024	Client Sample ID:	Jic. 92 #16 Bottom Comp 14ft.
Lab ID:	9809024-02A	Matrix:	SOIL
Project:	18684 1000.77	Collection Date:	9/10/98 2:26:00 PM
		COC Record:	C2295

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/22/98
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

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

Chain of Custody Record

4000 Monroe Road
Farmington, NM 87401
(505) 326-2262 Phone
(505) 326-2388 FAX

COC Serial No. C 2295

[illegible]

Williams, Prod.

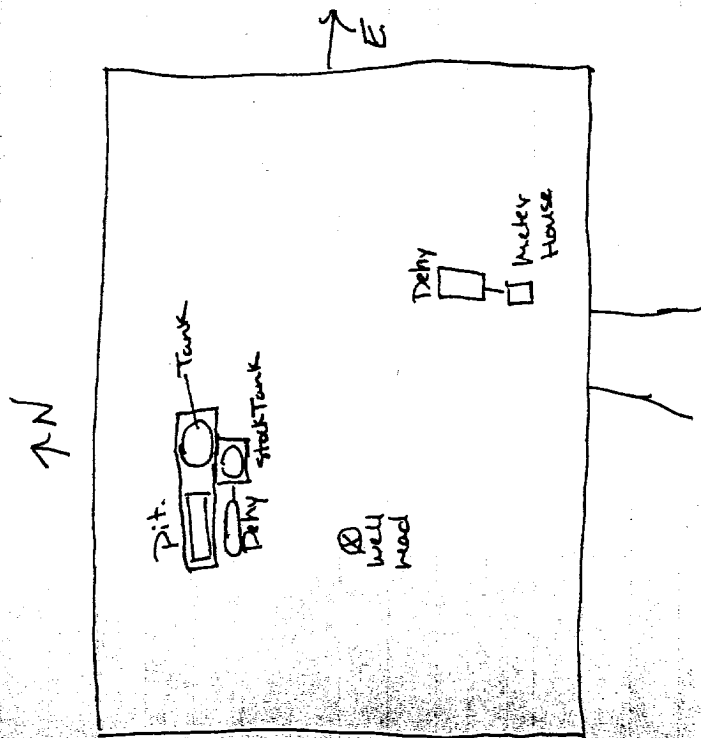
Jic. 92 No. 16

Tank East of pit.

Fence surrounds both pit & Tank

Dehy south of pit needs to be moved.

Room for land farm east of pit.



9-9-98

Jicarilla 92nd 116

- Started at 1:30. Move hoe and loader to location.
- Pulled down fencing around pit. Morgan checked in center of pit.
- PID reading was 1700 ppm first bucket.
- East wall still not need to move tank. Told Ron V. he said there was liquid in it and that he would get with his boss to see who ~~he~~ wanted to move it. I told him we could drag it out of the way.
- Ron V. said Williams did not want us moving there eq. so they would have a roustabout crew come do it in the morning.
- Got back to yard at ~~1:45~~ 5:45.

9-10-98

Jic. 92#16

- Got to location at 8:15. Pulled down fence.
- Measured pit $24 \times 22 \times 14 = 273$ yds. 8:30 AM
- Shmite was on location, pulled liquid out of tank that needs to be moved.
- Measured pit again at 10:30
 $27 \times 33 \times 14 = 462$ yds.
- At 11:00 we went over 500 yds. went hrly rate.
- Rust about crew moved tank from east side of pit. Morgan started digging on east side after they moved tank. Contamination came all the way to surface where tank was sitting. PID reading where tank sat was 1800ppm.
- RB crew also moved sep on south side of pit.
- Finished what was underneath tank then moved back over to south west part of pit to finish it.

Jic 92#16

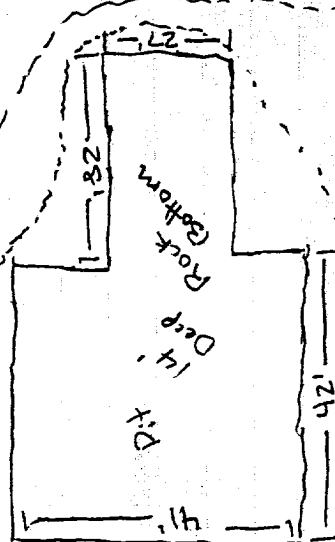
↑ North

9-10-98

LAND FARM

LAND FARM

LAND FARM



Dehy. Motor House

Well Head

LAND FARM

9-10-98

Jic 92-10

Took samples of wells and bottom

Headspace readings with PID.

West wall 9.7 ppm

South wall 43.2 ppm

East Wall 5.3 ppm

North Wall 19.4 ppm

Wall Comp. 32.4 ppm

Bottom Comp. 138 ppm

rock bottom 14' depth.

Final Pit dimensions

$$27 \times 28 \times 14 = 392$$

$$41 \times 42 \times 14 = 892$$

$$\underline{1284}$$

- Finished up on land farming.
- Left small stock pile on location.
- Went back to yard at 4:15.
Got to yard at 5:45.
Put samples in refrigerator.

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

SUBMIT TO: BY ID
NATURAL RESOURCE DEPT
AND/OR LAND ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: Williams Production Company Telephone: 918-561-6250
Address: P.O. Box 3102, MS 37-4, Tulsa, OK 74101
Facility or Well Name: Jicarilla 92 #16
Location: Unit or Qtr/Qtr Sec E Sec 30 T 27N R 3W County Rio Arriba
Land Type: Jicarilla Apache Reservation

Date Remediation Started: 9/9/98 Date Completed: 10/19/98
Remediation Method: Landfarmed X Approx. cubic yards 1284
Composted
Other

		Final Closure Sampling:	
Depth To Groundwater:	(pts.) <u>0</u>	Sampling Date:	<u>10/6/98</u> Time: <u>1045</u>
Distance to an Ephemeral Stream	(pts.) <u>0</u>	Sample Results:	
Distance to Nearest Lake, Playa, or Watering Pond	(pts.) <u>0</u>	Field Headspace (ppm)	<u>26.8</u>
Wellhead Protection Area:	(pts.) <u>0</u>	TPH (ppm)	<u>ND</u> Method <u>8015</u>
Distance To Surface Water:	(pts.) <u>0</u>	Other	<u>BTEX - METHOD 8020</u>
RANKING SCORE (TOTAL POINTS): <u>0</u>		<u>ND</u>	

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

APPROVED: YES X NO (REASON) OK to use as backfill

SIGNED: [Signature] DATE: 10/23/98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 19-Oct-98

Client:	Philip Environmental	Client Sample Info:	Williams Production Pits
Work Order:	9810017	Client Sample ID:	Jicarilla 92 #16 Landfarm
Lab ID:	9810017-01A	Matrix:	SOIL
Project:	18684 2000.77	Collection Date:	10/6/98 10:45:00 AM
		COC Record:	C2305

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	10/15/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	10/15/98
BTEX		SW8020A				Analyst: DC
Benzene	ND	1		µg/Kg	1	10/14/98
Toluene	ND	2		µg/Kg	1	10/14/98
Ethylbenzene	ND	1		µg/Kg	1	10/14/98
m,p-Xylene	ND	2		µg/Kg	1	10/14/98
o-Xylene	ND	1		µg/Kg	1	10/14/98

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

1 of 1

Chain of Custody Record

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

COC Serial No. C 2305

Relinquished by:			Received By:		
Signature	Date	Time	Signature	Date	Time
<i>Walter Kilgus</i>	10/16/98	1915	<i>James [Signature]</i>	10/17/98	0840
<i>James [Signature]</i>	10/17/98	0850	<i>James [Signature]</i>	10/17/98	0850

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) _____			

J'can/19 92 #16 18684 2000.77
 arrived at site TOOK some Reading
 Over the LAND Farm The Reading
 were all below 40 ppm So I
 made a composite TOOK a NodS/REC ON
 it It was 26.8 ppm Time 10 45-

