

Denny E. Frost

DEPUTY OIL & GAS INSPECTOR

FEB 03 1999

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

SUBMITTED TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

PJT 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 #11

Location: Unit or Qtr/Qtr Sec 6 Sec 30 T 27N R 3W County RIO ARriba

Unit Type: Separator___ Dehydrator___ Other PRODUCTION

and Type: JICARILLA APACHE RESERVATION

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

Reference: wellhead____, other_____

Footage from reference: _____

Direction from reference: _____ Degrees _____ of _____ 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)
High water elevation of		
Groundwater)		

Distance to an Ephemeral Stream
Down gradient dry wash greater than
2 feet in width

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

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

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

Less than 100 feet (20 points)
100 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS):

Date Remediation Started: 9/14/98 Date Completed: 9/15/98

Remediation Method: Excavation ☒ Approx. cubic yards 288
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____

Other _____

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

General Description of Remedial Action: ON-SITE LAND FARMING

Groundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location _____

Closure Sampling: JICARILLA 92#11
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 15' + SIDE WALLS

Sample date 9/15/98 Sample time 0931

Sample Results

Soil: Benzene (ppm) ND/ND Water: Benzene (ppb) _____
Total BTEX (ppm) .0048/.0411 Toluene (ppb) _____
Field Headspace (ppm) 0/26 Ethylbenzene (ppb) _____
TPH (ppm) ND/ND Total Xylenes (ppb) _____

Groundwater Sample: Yes _____ No ☒ (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.

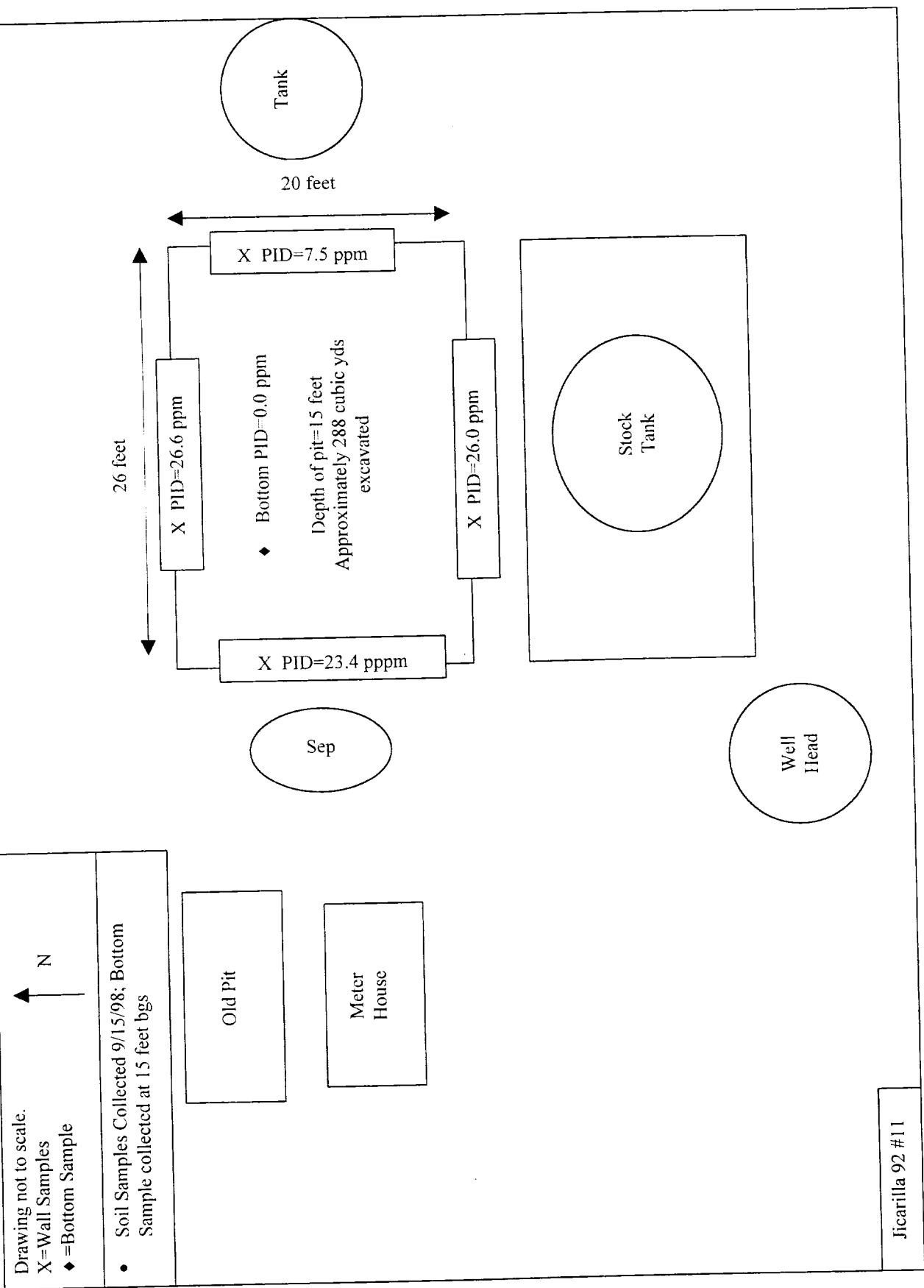
APPROVED: YES ☒ NO _____ (REASON) _____

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

Drawing not to scale.

X=Wall Samples
 ♦ =Bottom Sample

- Soil Samples Collected 9/15/98; Bottom Sample collected at 15 feet bgs



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:	9809040	Client Sample ID:	Jic. 92 #11 Wall Comp
Lab ID:	9809040-01A	Matrix:	SOIL
Project:	18684 4000.77	Collection Date:	9/15/98 9:31:00 AM
		COC Record:	C2298

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/24/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	9/19/98
BTEX		SW8020A				Analyst: HR
Benzene	4.8	2		µg/Kg	2	9/17/98
Toluene	ND	4		µg/Kg	2	9/17/98
Ethylbenzene	3.3	2		µg/Kg	2	9/17/98
m,p-Xylene	33	4		µg/Kg	2	9/17/98
o-Xylene	ND	2		µg/Kg	2	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

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:	9809040	Client Sample ID:	Jic. 92 #11 Bottom Comp
Lab ID:	9809040-02A	Matrix:	SOIL
Project:	18684 4000.77	Collection Date:	9/15/98 9:32:00 AM
		COC Record:	C2298

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/24/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	9/19/98
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	4.8	2		µg/Kg	1	9/17/98
o-Xylene	ND	1		µg/Kg	1	9/17/98

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E - Value above quantitation range

Surr: - Surrogate

Chain of Custody Record

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

COC Serial No. C 2298

PF-176 4/95

Jic. 92 #11

9-14-98

- Moved to location at 1:30, pulled fence down. Ron V. helped pull 1" line that went from sep. to tank. 1" went directly over pit. Moved everything necessary then started digging at 2:00
- Started land farming soil east of pit.
- Measured hole at 3:30
19' x 22' x 15' = 232 yds.

9-15-98

Ran Head space

Jic 92#11.

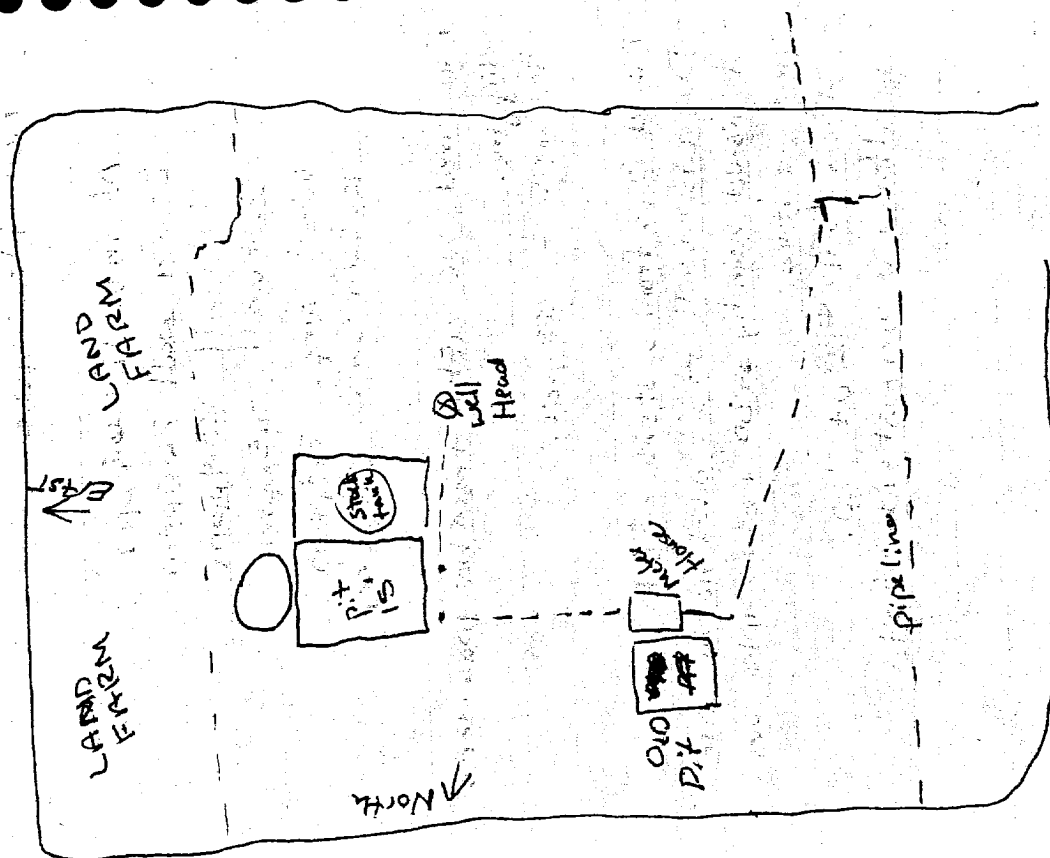
North wall 26.6 ppm
South wall 26.0 ppm
West wall 23.4 ppm
East wall 7.5 ppm
Wall Comp. 2.8 ppm
Bottom Comp. 0.0 ppm

Measured hole after track hole was done digging.

20x26x15 = 288 yds.

- Moved Sep. from west side of pit.
- Dug west wall of pit and north side.
- Finished hole by 9:00. Got samples and put up fence.
- Moved to 92#12 at 9:30.
- Landform is on east side of pit.

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Williams Prod.

Jic. 92 No. 11

Stock Tank directly south of pit needs to be moved.

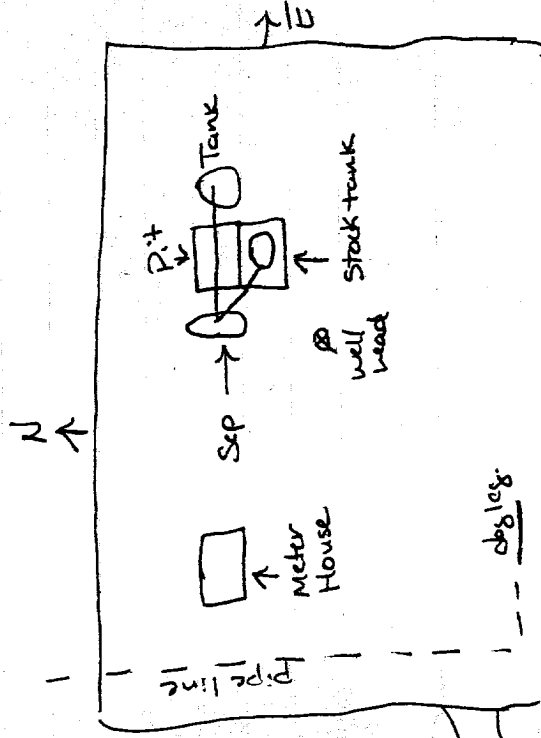
Sep. west of pit needs to be moved.

Tank on east side of pit may need to be moved.

line from tank going over pit to

sep. needs to be taken out.

Room for land ~~to~~ farm south of pit.



Type line

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SERVE TO: BY TO:
NATURAL RESOURCE DEPT
AND OIL & GAS 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 #11
Location: Unit or Qtr/Qtr Sec G Sec 30 T 27N R 3W County Rio Arriba
Land Type: Jicarilla Apache Reservation

Date Remediation Started: 9/14/98 Date Completed: 10/19/98
Remediation Method: Landfarmed X Approx. cubic yards 288
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

RANKING SCORE (TOTAL POINTS): 0

Final Closure Sampling:
Sampling Date: 10/2/98 Time: 1040
Sample Results:
Field Headspace (ppm) 5.6
TPH (ppm) 28 Method 8015
Other BTEX - METHOD 8020

ND

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 back fill

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

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 19-Oct-98

Client: Philip Environmental

Work Order: 9810016

Lab ID: 9810016-01A Matrix: SOIL

Project: 18684 4000. 77

Client Sample Info: Williams Production Pits

Client Sample ID: Jicarilla 92 #11 Landfarm

Collection Date: 10/2/98 10:40:00 AM

COC Record: C2303

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	28	25		mg/Kg	1	10/16/98
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:

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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

PHILIP ENVIRONMENTAL

COC Serial No. C 2303

[illegible]

10/21/98

Jiceville 92#11 18684 4000.77

1030 Cane and took PID they were
all zero so I took a sample & tested
it up - Sample Reading was 5.6 PPM
Time 1040

