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SUBMIT COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

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#8
Location: Unit or Qtr/Qtr Sec N Sec 31 T 27N R 3W County RIO ARriba
Unit Type: Separator ☐ Dehydrator ☒ Other ☐
Land Type: JICARILLA APACHE RESERVATION

Pit Location: Pit dimensions: length 16', width 16', depth 3'
(see diagram)

Reference: wellhead _____, other _____

Footage from reference: _____

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

Depth To Groundwater:	Less than 50 feet	(20 points)	
Vertical distance from	50 feet to 99 feet	(10 points)	
streambeds to seasonal	Greater than 100 feet	(0 points)	<u>0</u>
ph water elevation of			
groundwater)			

distance to an Ephemeral Stream
down-gradient dry wash greater than
1 foot 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)

Yes (20 points)
 No (0 points) 0

Distance To Surface Water:
 Total distance to perennial
 ponds, rivers, streams, creeks,
 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): 9

Date Remediation Started: 9/24/98 Date Completed: 9/28/98

Remediation Method: Excavation X Approx. cubic yards 1433

(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 LAND Farming

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location _____
Closure Sampling: JICARILLA 92#8 (ROCK ENCOUNTERED)
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 10' + SIDEWALLS

Sample date 9/28/98 Sample time 1310

Sample Results

BOTT WALL

Soil: Benzene (ppm) .095/ND Water: Benzene (ppb) _____

Total BTEX (ppm) 5.455/ND Toluene (ppb) _____

Field Headspace (ppm) 906/33.7 Ethylbenzene (ppb) _____

TPH (ppm) 27/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

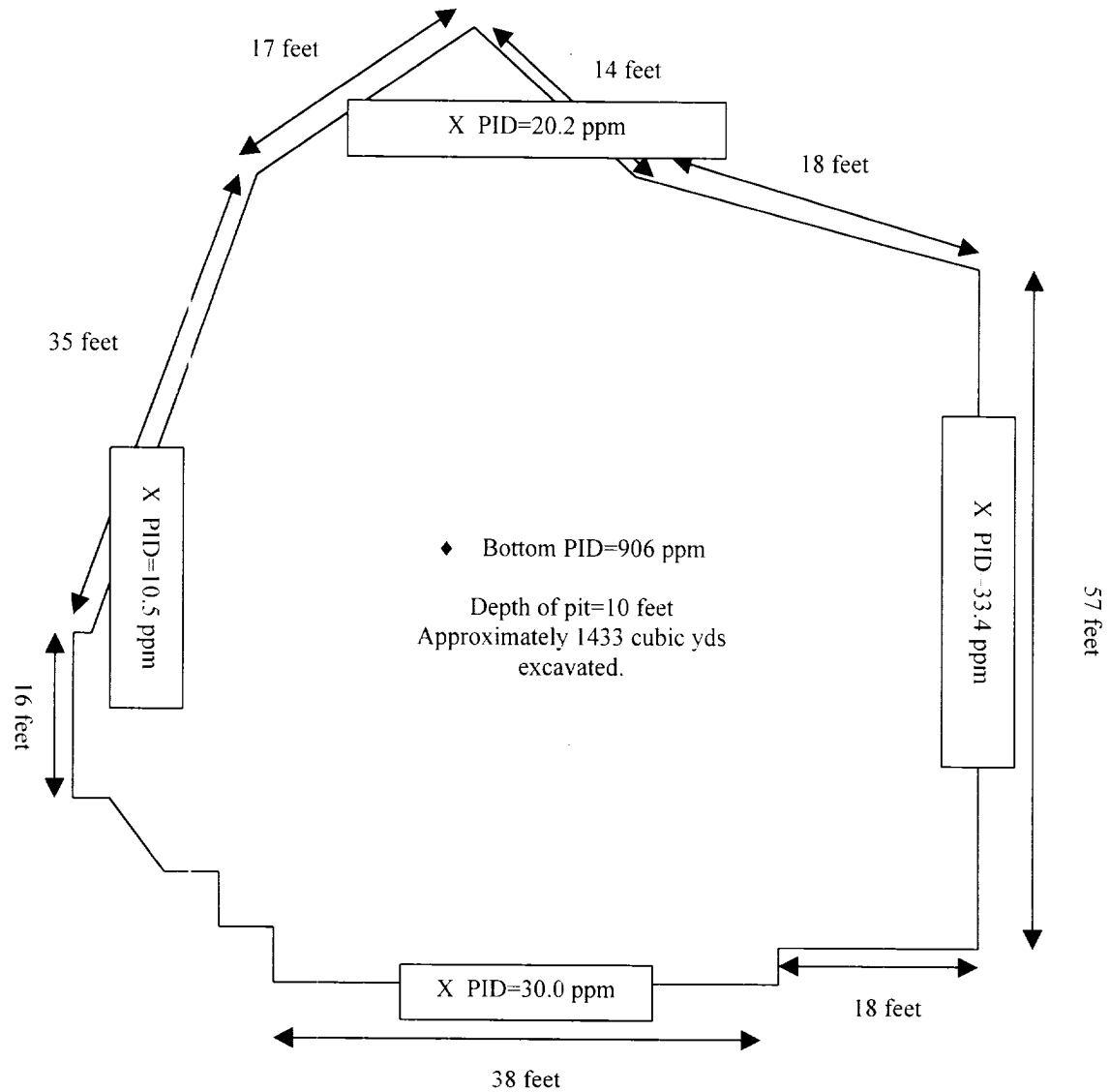
Drawing not to scale.

X=Wall Samples

◆ =Bottom Sample



- Soil Samples Collected on 9/28/98;
Bottom Sample collected at 10 feet bgs



Jicarilla 92 #8

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:	9809079	Client Sample ID:	Jicarilla 92 #8 Side
Lab ID:	9809079-01A	Matrix:	SOIL
Project:	18684 6000.77	Collection Date:	9/28/98 1:20:00 PM
		COC Record:	C2304

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: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	10/1/98
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	ND	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

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:	9809079	Client Sample ID:	Jicarilla 92 #8 Bottom
Lab ID:	9809079-02A	Matrix:	SOIL
Project:	18684 6000.77	Collection Date:	9/28/98 1:25:00 PM
		COC Record:	C2304

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: DC
T/R Hydrocarbons: C6-C10	27	4.5		mg/Kg	25	10/1/98
BTEX		SW8020A				Analyst: DC
Benzene	95	50		µg/Kg	50	10/9/98
Toluene	1800	100		µg/Kg	50	10/9/98
Ethylbenzene	240	50		µg/Kg	50	10/9/98
m,p-Xylene	2700	100		µg/Kg	50	10/9/98
o-Xylene	620	50		µg/Kg	50	10/9/98

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

9/24/98

Jicarilla 92^{#8}

Arrived at site at 0815

TOOK FENCE down took

INITIAL Reading on pit it was

1800^{ppm} and drop back down to

450 ppm and stop

while Steve start Excavating

pit ran Steve & I moved

Small tank out of the way

0900

Calibrated TOXI RAC

Zero - OK

GAS ISO BUTYLI 100 ppm

Cal. OK 100 ppm

Check 99.9

I called CORYUN at 0910 to

TALK Hauling the 93^{#2} I ASK HER

about BACKFILL

where we were going to get it

I also ASK HER about which land

Farm we were going to use and

IF we used Smith IF that might

Not slow our closer down with

the Jicarilla

I also ASK about the TRACTOR IF

it was 4 wheel drive

She said she would call me
Back when Don got Back in
the office

0925 we Hit Rock at 9'

Continue Excavating till noon

I took Reading on west wall under
separator we dug up to within
3' and stop it was 450 ppm

Don Blew separator down at 1220 we
missed lunch and Help him move it
while we did this Steve Glass
moved down to the east end
and continued on I took a Read.
at 1245 it was 1400 ppm

1328 we ^{took} a reading on East
wall it was 28 ppm I told Steve
to start moving Back to the North
we went on the Hourly Rate at

1400 the Size was $72 \times 20 \times 10 = 533$

we continued Excavating moving to The
North I took another Reading ¹⁵⁰⁰
it was 2200 I told Steve ~~Keep~~
Keep going

9/25/98

- Arrived at 0810 we started
- BY taking fence down on North
- side and started excavating
- 0840 I clean filter on TOXAGE
- I also talk to CORYAN and
- she said the we could ~~use~~ use
- Robert Monday to turn landfills
- Steve call and ask about his
- Pick up I told him He would get
- his back on Monday
- I took a Reading on west wall
- under North where separator was at
- 0930 it was 68 PPM I told
- Steve to Excavate straight back
- along this wall
- We started Digging along 1" line
- next to meter RUN I told Steve
- He need to move faster
- He was Taking ² Bucket to
- get 1 ~~to~~ ~~went~~ over and
- He said He Had to do this
- Because He was afraid He
- would Hit the line I dug
- Down and EXposed it with a
- Shovel so He could see it
- I took a Reading ON THE NORTH EAST
- Wall 1050 I also took a ~~meter~~

Measurement at this time so far
The pit size is $72 \times 30 \times 10 = 800 \text{ yd}$
At 1155 took a reading on west wall
next to the meter house it was 1580
ppm I told Ron we need to move
it

From 1230 to 1330 we removed
the meter run and house and
the 1" supply gas line that run
beside it

At 1410 I took 2 more readings on
the north wall in the middle
1 was 0.6 ppm the other was over
about 2 bucket wide it was 250 ppm

9/28/98

Arrived at site at 0815 I
stop by the Indian I[#]1, on
the way in this morning and
showed Robert where it was and
which land farm to turn after
that we went to the Tiller
9248 and let Spike & Steve
get started excavating then
I took Robert to the rest of
the location and showed him
with lantern and piles were
hot or clean
Robert left location on tractor at
0900 to start plowing
when I got back Steve was
about 1/3 of the way down west
wall I took some readings they
were 0.4 so he moved on
down when we got to the
corner we took some more readings
on the west wall at 1000 it
was cleaned up
we moved over to south wall it
and took some readings on it
south west end it was 150 ppm
about 1' off the bottom of pit
in the middle where tank had been
sitting it was over 1500 ppm

about 2' From the top
and on the south East END
it was about 450 at about
2' of the Bottom we counted everything
on this side until lunch after
lunch I took 50 more Reading and
it look pretty clean I started
Sampling at 1310

North wall 20.2	South wall 30.0 ppm
East wall 33.4 ppm	West wall 10.5 ppm
Bottom 906 ppm	Composite 33.7 ppm

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

SUBMIT TO: P.O. BOX 10
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 #8

Location: Unit or Qtr/Qtr Sec N Sec 31 T 27N R 3W County RIO ARriba

Land Type: JICARILLA APACHE RESERVATION

Date Remediation Started: 9/24/98 Date Completed: 11/12/98

Remediation Method: Landfarmed X Approx. cubic yards 1433

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: 11/12/98 Time: 1145

Sample Results:

Field Headspace (ppm) 36.2

TPH (ppm) 57 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 11/19/98 PRINTED NAME ROBERT THOMPSON

SIGNATURE Robert Thompson 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) Okay to use as backfill.

SIGNED: Karena L. Callado DATE: 11/23/98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 18-Nov-98

Client:	Philip Environmental	Client Sample Info:	Williams Production Pits
Work Order:	9811042	Client Sample ID:	Jicarilla 92 #8 Landfarm
Lab ID:	9811042-02A	Matrix:	SOIL
Project:	18684 .77	Collection Date:	11/12/98 11:45:00 AM
		COC Record:	C2322

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	57	25		mg/Kg	1	11/18/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	11/16/98
BTEX		SW8020A				Analyst: DC
Benzene	ND	1		µg/Kg	1	11/15/98
Toluene	ND	2		µg/Kg	1	11/15/98
Ethylbenzene	ND	1		µg/Kg	1	11/15/98
m,p-Xylene	ND	2		µg/Kg	1	11/15/98
o-Xylene	ND	1		µg/Kg	1	11/15/98

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

PHILIP

Chain of Custody Record

4000 Monroe Road
Farmington, NM 87401

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

COC Serial No. C 2322

Project Name <i>William Prod. pits</i>		Type of Analysis and Bottle		Total Number of Bottles	Comments
Project Number <i>18684</i>	Phase Task <i>.77</i>				
Samplers <i>Morgan Killian</i>					
Laboratory					
Name <i>oasis</i>					
Location <i>Farmington NM</i>					
Sample Number (and depth)	Date	Time	Matrix		
<i>Jicerilla 92 #15</i>	<i>11-12-98</i>	<i>1115</i>	<i>Soil</i>	<i>1</i>	<i>Handfern 1500</i>
<i>Jicerilla 92 #18</i>	<i>11-12-98</i>	<i>1145</i>	<i>Soil</i>	<i>1</i>	<i>Handfern 6000</i>
<i>Jicerilla 92 #19</i>	<i>11-12-98</i>	<i>1220</i>	<i>Soil</i>	<i>1</i>	<i>Handfern 6500</i>
<i>Jicerilla 92 #4</i>	<i>11-12-98</i>	<i>1230</i>	<i>Soil</i>	<i>1</i>	<i>Stockpile 6500</i>
<i>Jicerilla 92 #4</i>	<i>11-12-98</i>	<i>1540</i>	<i>Soil</i>	<i>1</i>	<i>Stockpile 5000</i>

Relinquished by:

Signature <i>Morgan Killian</i>	Date <i>11-12-98</i>	Time <i>1825</i>	Received By: Signature <i>[Signature]</i>	Date <i>11/13/98</i>	Time <i>0925</i>
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Samples Iced: ☐ Yes ☐ No

Preservatives (ONLY for Water Samples)

- ☐ Cyanide
 - ☐ Volatile Organic Analysis
 - ☐ Metals
 - ☐ TPH (418.1)
 - ☐ Other (Specify)
 - ☐ Other (Specify)
- Sodium hydroxide (NaOH)
Hydrochloric acid (HCl)
Nitric acid (HNO3)
Sulfuric acid (H2SO4)

Carrier:

Shipping and Lab Notes:

Airbill No.

J.C 92#8 6000 77

Arrived at site at 1130 to
sample & readings were 0 ppm when
I checked with PID soil is very muddy
Heated it is 36.2 ppm Time 1140

