Denny S. Fourthergy, Minerals and Natural Resources Department

DEPUTY OIL & GAS INSPECTOR

JUN 2 3 1998

DIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

PVT REMEDIATION AND CLOSURE REPORT

Operator: Burlington Resources (Williams Field Services)

Telephone: (801) 584-6361

Address:

P.O. Box 58900, Salt Lake City, Utah 84158-0900

WellName:

Rattlesnake Canyon # 3

(85767)

Location:

Unit or Qtr/Qtr Sec T Sec 20 T 32 R 8

County san Juan

PitType

Dehydrator

LandType:

State

Pit Location: Pit dimensions: length 17ft., width 16ft., depth

(Attach diagram)

Reference: Wellhead

Footage from reference:

71 ft.

Direction from reference:

330 Degrees East of North

Depth To Ground Water:

(Vertical distance from contaminants to seasonal high water elevation of ground water)

Less than 50 feet 50 feet to 99 feet

(20 points) (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 1000 feet from all other water sources)

DIST, A

Yes (20 points)

No (0 points)

0

Distance To Surface Water:

(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches) Less than 200 feet

(20 points)

200 feet to 1,000 feet(10 points)

Greater than 1,000 feet(0 points)

Ranking Score (TOTAL POINTS):

0

Date Remediation Started: 10/31/97

Date Completed: 10/31/97

Remediation Method: Excavation 🗸

Approx. Cubic Yard 60

(check all appropriate

sections)

Landfarmed 🗸

Insitu Bioremediation

Other

Landfarmed soil after mechanical aeration.

Remediation Location:

Onsite 🗸 Offsite

(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action:

The pit was excavated to remove gross petroleum contamination. The excavated material was mechanically aerated and placed into an onsite landfarm.

Ground Water Encountered:

Final Pit:

Closure Sampling:

(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location Rattlesnake Canyon # 3-V-EXFL-01

Two samples were collected, one sample from the excavation bottom and the second sample was made up of 4 points from each excavation wall.

Sample depth 6 FEET

Sample date 10/31/97 Sample time 18:01

Sample Result

Benzene (ppm) <0.10

Total BTEX (ppm) <0.40

Field Headspace (ppm)

TPH (ppm) <2.0

Ground Water Sample:

I HERBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

PRINTED NAME Mark Harvey for Williams Field Services

PIT RETIREMENT FORM

Date: 10.31.97	<i>85</i> 767	Weather SUNNY 60's
Well Name RATTLESHAKE CANYON # 3 OF	perator <u>Burlington</u> resources	ec_20T_32_R_8_UL
Land Type: BLM STATE FEE		ounty SAN JUAN
One Call Made (505-765-1234)?	∨ N	·
Line Marking Evident?		
Pit Location:		[]
Reference Wellhead <u>×</u>	Other	Quel.
Distance from: 71'		(a) WELL
Direction: 330° Degrees	<u>×</u> E N <u>×</u>	
	of	
	W S LAND	
		_
Starting Pit Dimensionsx)
Final Pit Dimensions 17 x	16 x 6	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
		SINE SKETCH
Organic Vapor Readings: Start _	Soil Description:	BROKEN CLAY
@ 2'		15 9/
@ 4′		n n
@ 6'		CLAYSTONE
@ 8′		
@ @	•	
Well Proximity To: Residence, Do	omestic Water Well, Stock Well	NONE
•	Lake, Stream>	
	(nown Distance to Ground Wat	
Source of Backfill (if other than pro	ocessed material	
		NAKE CANYON #3.V. EXWA.OI (SOI) Water
	•	MAKE CANYON #5.V. EXFL.OI (QII) Water
Pro	ogress: Verification: ID	soil / water
Sample sent to Lab Via: Courier	Hand Carried Other	Preservative: ICE Other
		GHT STAINING AND MINIMAL
		BROKEN CLATSTONE -HIT
(1)	A . 1	FEET ~ SOIL /CLAY LANDFARMED
	ON SITE	
10/2-3/		
1/3/20		
	Soil Shippod to:	. Androdelm
		LANDEREM
(pit sketch-show sample pts.)	Prepared by: Man Y W-	



ORGANIC ANALYSIS REPORT

Client: Williams Field Services Date Sampled: October 31, 1997

Date Received: November 12, 1997

AMERICAN WEST ANALYTICAL LABORATORIES

Analysis Requested: Total Petroleum Hydrocarbons Volatile Aromatics

Field Sample ID: RATTLESNAKE CANYON #3-V-EXFL-01 @ 18:01/85767

JICARILLA PIT REMEDIATION

Contact: Mark Harvey Date Extracted: November 11, 1997 Date Analyzed: November 12, 1997

Method Ref. Number:

SW-846 #8015/8020 modified (Extraction - GC/PID-FID)

Lab Sample ID: L31468-2

	Analytical Results		BTX/TPH-E
463 West 3600 South Salt Lake City, Utah 84115	Units = mg/kg(ppm) Compound:	Reporting Limit:	Amount Detected:
	Benzene	0.10	< 0.10
(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687	Toluene	0.10	< 0.10
	Ethylbenzene	0.10	< 0.10
	Total Xylene	0.10	< 0.10
	Total Petroleum Hydrocarbons	2.0	< 2.0

5.0% % Moisture

* All compounds are reported on a dry weight basis.

Report Date: November 19, 1997

1 of 1



ORGANIC ANALYSIS REPORT

Client: Williams Field Services Date Sampled: October 31, 1997 Date Received: November 12, 1997

AMERICAN WEST ANALYTICAL **LABORATORIES**

Analysis Requested: Total Petroleum Hydrocarbons Volatile Aromatics

Field Sample ID:

RATTLESNAKE CANYON #3-V-EXWA-01 @ 17:56/85767

JICARILLA PIT REMEDIATION

Units = mg/kg(ppm)

Contact: Mark Harvey Date Extracted: November 11, 1997 Date Analyzed: November 12, 1997

Method Ref. Number:

SW-846 #8015/8020 modified (Extraction - GC/PID-FID)

Lab Sample ID: L31468-1

Analytical Results	BTX/TPH-E

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686

Toll Free (888) 263-8686 Fax (801) 263-8687

Compound:	Reporting <u>Limit:</u>	Amount Detected:
Benzene	0.10	< 0.10
Toluene	0.10	< 0.10
Ethylbenzene	0.10	< 0.10
Total Xylene	0.10	< 0.10
Total Petroleum Hydrocarbons	2.0	< 2.0

% Moisture		2.0%

All compounds are reported on a dry weight basis.

Report Date: November 19, 1997

1 of 1



ORGANIC ANALYSIS REPORT

Client: Williams Field Services Date Sampled: November 21, 1997

Date Received: November 24, 1997

AMERICAN WEST ANALYTICAL **LABORATORIES**

Analysis Requested: Total Petroleum Hydrocarbons Contact: Mark Harvey

Date Extracted: November 24, 1997 Date Analyzed: November 25, 1997

Method Ref. Number: SW-846 #8015 modified (Extraction - GC/FID)

Lab Sample ID: L31589-20

Field Sample ID:

RATTLESNAKE CANYON #3-V-LF-01 @ 9:39/85767 19 PPM

JICARILLA PIT REMEDIATION

Analytical Results

Units = mg/kg(ppm)

Compound:

Total Petroleum Hydrocarbons

Reporting Limit:

2.0

Amount Detected:

TPH-E

< 2.0

(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687

463 West 3600 South Salt Lake City, Utah

84115

% Moisture

11.%

All compounds are reported on a dry weight basis.

Report Date: November 26, 1997

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LAYDEARM