District I

P.O. Body So, Hobbs, NM

District II

P.O. Days DD Artes, NM 88211

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DISTRICT NM 88211

DISTRICT NM 87410

JUN 2 3 1998

State of New Mexico
Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

# PIT REMEDIATION AND CLOSURE REPORT

HA	roved		
11/1/	Annual design of the part of t		
Operator: Devon	Energy Corporation	Telephone: (505) 324-0033	<del></del> -
Address: 3300 No	orth Butler, Suite 211, F	Farmington, NM 87401	
Facility Or: N. E. ] Well Name	Blanco Unit # 26A		
Location: Unit or Qtr/	Qtr Sec <u>D</u> Sec <u>8</u>	T 30N R 7W County San Juan	
Pit Type: Separator	X Dehydrator_	Other Production Tank	
Land Type: BLM	X, State	, Fee, Other	
Pit Location: (Attach diagram)	Pit dimensions: Length  Reference: wellhead	14 ft , width 14 ft , depth 3 ft  X other	
	Footage from reference:	100 ft	
	Direction from reference:	35 Degrees X East North of West South X	
Depth to Ground Wate (vertical distance from	l	Less than 50 feet (20 points) 50 ft to 99 feet (10 points)	10
contaminants to seaso highwater elevation of ground water)		Greater than 100 feet (0 points)	10
Wellhead Protection A (less than 200 feet fro	m a private	Yes (20 points)	0
domestic water source 1000 feet from all other		X No (0 points)	0
Distance to Surface W (Horizontal distance to		Less than 200 feet (20 points) X 200 feet to 1000 feet (10 points)	
lakes, ponds, rivers, si irrigation canals and d		Greater than 1000 feet (0 points)	10
P:\pits\PrrC@.WK3		RANKING SCORE (TOTAL POINTS):	

Date Remediation Sta	arted: N/A	Date Completed:
	Excavation	Approx. cubic yards
	Landfarmed	Insitu Bioremediation
	Other	
Remediation Method:	Onsite	Offsite
(Check all appropriate	e	
sections)		
		Initial assessment showed soils to be clean 3 feet below
	<del></del>	
Ground Water Encour	ntered: No _	X Yes Depth
Final Pit: Closure Sampling:	Sample location Beside	e fiberglass pit in direction of surface gradient (See
(if multiple samples, attach sample results	attached diagram).	
and diagram of sample locations and depths)	Sample depth 3' below	w pit bottom
iocanons and depuis)	Sample date <u>5/28/</u>	/97 Sample time
	Sample Results	
	Benzene(ppm)	
	Total BTEX (PP	
	Field Headspace	(ppm) <u>4.5</u>
	TPH <u>1</u>	ND
Constanting Samular	V V-	V comment to the
Ground water Sample:	Yes No	(if yes, attach sample results)
I HEREBY CERTIFY THA OF MY KNOWLEDGE AL		BOVE IS TRUE AND COMPLETED TO THE BEST
DATE 2-27-98	Ρ	PRINTED NAME Jim Abbey
SIGNATURE Jam	K au	and TITLE Operations Engineer

# FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: Location: NEBU # 26A  Operator #: Operator Name: P/L District:  Coordinates: Letter:
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  State (2)  Maps)  Inside (2)  Outside (2)  Indian  Depth to Groundwater  Less Than 50 Feet (20 points) (3)  Wellhead Protection Area:  Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction?, or; Is it less than 200 ft from a private domestic water source?  Horizontal Distance to Surface Water Body  Less Than 200 Ft (20 points) (2)  Greater Than 1000 Ft (10 points) (2)  Greater Than 200 Ft (20 points) (3)  Mame of Surface Water Body  (Surface Water Body: Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)  Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Oniy)  (2) > 100'  TOTAL HAZARD RANKING SCORE: 20 POINTS
REMARKS	Remarks :

ORIGINAL PIT LOCATION
Original Pit: a) Degrees from North 145 Footage from Wellhead 100' b) Length: 14' Width: 14' Depth: 3' With 12' Diameter Fiberglass Pit
Production tank  Fiberglass pit
Wellhead
Surface gradient
Remarks: Soil is sandy, moist, brown, no odor.
Sample was taken beside the fiberglass pit in the direction of the surface gradient at a depth of 6'. The OVM gave a reading of 4.5 ppm. The sample was sent to
Anaitas, Inc. for DRO/GRO 8015 analysis.
Completed Ey:
Completed By:  Maria D. Rodahl  5-28-97

				Overview of Location and Sampling:
Location: N.E. Blanco Unit # 26A				1 02 V
Quad: D Section:	80			2
Range: 7W Township:	30N	_		Wellhead
Pit: Sep. / Prod. Tank Reference: 100' N. 145	Sample #	Location Btm. @ 8'	OVM 4.5	•
of wellhead	2	9		
Initial Size: 14' x 14' x 3' deep	3			
Final Size: 14' x 14' x 3' deep	4			
Yds. Excavated: 0 cy	2			
	9			
Depth to Groundwater: 59"	\ 			Production
Megraet Surfece Motor: 238'	•			Aug.
1	s Ç			X X
=	= =			Separator
•	12			
Comments: Soil is sandy, moist, brown, no odor	rown, no od	or		Surface \
Sent Sample #1 to Anaitas for DRO/GRO	/GRO 8015			Gradient Floring Pit
Pit Profile: North to South:		10,	1	Pit Profile : East to West :
North		OS .	South	East
	ł			ı

Date Started: 28 May 1997 Date Completed: 28 May 1997

Client: Devon Energy



# TOTAL RECOVERABLE PETROLEUM HYDROCARBONS **Diesel Range Organics**

#### **Devon Energy**

Project ID:

NEBU #26A Sep/Prod Pit

Report Date:

06/12/97

Sample Matrix: Soil

Date Sampled:

05/28/97

Preservative:

Cool

Date Received:

Condition:

Intact

Date Extracted:

05/28/97 06/02/97

Date Analyzed:

06/10/97

Samplale	rlani(D)	Coperitéron (nG/G)	Daicelon/finit
BTM @ 6'	6961	ND	32.4

ND- Analyte not detected at the stated detection limit.

**Quality Control:** 

Surrogate

o - Terphenyl

% Recovery 91%

Acceptance Limits

50 - 150%

Reference:

EPA Method 8015A, modified. "Nonhalogenated Volatile Organics by Gas

Chromatography." <u>Test Methods for Evaluating Solid Waste, Physical/</u>

Chemical Methods, SW-846, 3rd Ed, Final Update I, July, 1992. USEPA.

Comments:



# TOTAL VOLATILE PETROLEUM HYDROCARBONS **Gasoline Range Organics**

#### **Devon Energy**

Project ID:

NEBU #26A Sep./Prod. Pit

Report Date:

06/12/97

Sample Matrix: Soil

Date Sampled:

05/28/97

Preservative:

Cool

Date Received:

05/28/97

Condition:

Intact

Date Extracted:

06/02/97

Date Analyzed:

06/09/97

Sampa D	յ <u>ե</u> զն (ը)՝	િનાજગામસાંભા (છ)મુંભ)	Pakalini Linit. (ngkg)
BTM @ 6'	6961	ND	36.8

ND- Analyte not detected at the stated detection limit.

**Quality Control:** 

Surrogate

Trifluorotoluene

% Recovery 83%

Acceptance Limits

50 - 150%

Dear 11

Reference:

Method for the Determination of Gasoline Range Organics,

State of Tennessee, Department of Environment and Conservation, Division

of Underground Storage Tanks.

Comments:

# **QUALITY CONTROL REPORT** TOTAL VOLATILE PETROLEUM HYDROCARBONS

#### **Gasoline Range Organics**

#### Method Blank Analysis

Project ID:

Sample Matrix: Soil Preservative:

NA NA

Condition:

NA

Report Date:

06/10/97

Date Sampled:

NA

Date Received: Date Extracted: NA

Date Analyzed:

06/02/97 06/09/97

Sampe le	Lab/ID	Concentration (note)	Digeologicalinie (nojko)
Method Blank	MB35583	ND	22.5

ND- Analyte not detected at the stated detection limit.

**Quality Control:** 

Surrogate

% Recovery

**Acceptance Limits** 

Denix 1/h

Trifluorotoluene

93%

50 - 150%

Reference:

Method for the Determination of Gasoline Range Organics,

State of Tennessee, Department of Environment and Conservation, Division

of Underground Storage Tanks.

Comments:

Vid A

# QUALITY CONTROL REPORT TOTAL VOLATILE PETROLEUM HYDROCARBONS

**Gasoline Range Organics** 

#### **Matrix Spike Analysis**

Project ID:

NA

Report Date:

06/10/97

Sample Matrix:

Soil

Date Sampled:

NA

Preservative:

NA

Date Received:

NA

Condition: NA

Date Extracted:

06/02/97

Date Analyzed

06/09/97

Labilo	Spike/Acced (mg/kg)	Original Conte	Solke/Cone. (ng/kg):	ં સ્વાલ્વાદ સ્ટલ્લપ્રમ્ય
MBSPK35590	4,220	ND	3,010	71%

ND- Analyte not detected at the stated detection limit.

**Quality Control:** 

Surrogate

Percent Recovery

Acceptance Limits

Trifluorotoluene

108%

50 - 150%

Reference:

Method for the Determination of Gasoline Range Organics,

State of Tennessee, Department of Environment and Conservation,

Division of Underground Storage Tanks.

Comments:

Review

Analyst

# QUALITY CONTROL REPORT TOTAL RECOVERABLE PETROLEUM HYDROCARBONS **Diesel Range Organics**

#### Method Blank Analysis

Project ID:

NA

Report Date:

06/12/97

Sample Matrix: Soil

Date Sampled:

NA

Preservative: Condition:

NA NA Date Received:

NA

Date Extracted:

06/02/97

Date Analyzed:

06/10/97

ું કિશાનો દિલ્લો	LejoyID	teonœnination (molkg)	ම්ප්දේශ්රිය©ijile (ijig/kg):
Method Blank	MB35583	ND	20.0

ND- Analyte not detected at the stated detection limit.

**Quality Control:** 

Surrogate

% Recovery

**Acceptance Limits** 

o - Terphenyl

106%

50 - 150%

Reference:

EPA Method 8015A, modified. "Nonhalogenated Volatile Organics by Gas

Chromatography." Test Methods for Evaluating Solid Waste, Physical/

Chemical Methods, SW-846, 3rd Ed, Final Update I, July, 1992. USEPA.

Comments:

mig/hl

# **QUALITY CONTROL REPORT** TOTAL RECOVERABLE PETROLEUM HYDROCARBONS **Diesel Range Organics**

#### Matrix Spike Analysis

Project ID:

NA

Report Date:

06/12/97

Sample Matrix:

Soil

Date Sampled:

NA

Preservative:

NA

Date Received:

NA

Condition:

NA

Date Extracted:

06/02/97

Date Analyzed:

06/10/97

₹ Eab(D	Spike Added	Ordinateons,	Silk÷Cone,	Pagant
	(mg/kg)	(ng/g).	(nojko),	Recovery
MBSPK35591	2,620	ND	2,690	103%

ND- Analyte not detected at the stated detection limit.

Reference:

EPA Method 8015A, modified. "Nonhalogenated Volatile Organics by

Gas Chromatography." Test Methods for Evaluating Solid Waste. Physical/Chemical Methods, SW-846, 3rd Ed, Final Update I, July,

1992. USEPA.

Comments:



III To: ompany: Prof. Name: NEAL # 26A 2 March Calle Dilly Mills D. Robbut 5-28-97 Maria D. Robbut 5-28-97 Maria D. Robbut 5-28-97 Shipped via: Brokenied cooks: Fr. Charles Charles (Charles Company: 13:43 Pinnar Can 17-11 .**∳**. hone: Required Turnaround Time (Prior Authorization Required for Rush) Received By: X. ddress: unalytica Lab I.D.: 07 S. CARIJON • FARMINGTON, NM 87401 • (505) 328-2395 Bunka lo' ROJECT MANAGER: Sample ID Project Information 5-28-97 13:43 Date Time Matrix Labour D Della Control Sample Receipt 8. 5761 Sampled By: Company: Cimarian ORGANIC ANALYSES 13:43 Time: Cimarion Relinquished By: Received By: Signature CHAIN OF CUSTODY WATER ANALYSES 17:01 Date: Received B Relinquished By: METALS Time: Date Please Fill Out Thoroughly. (cp) White/Yellow: Analytica Shaded areas for lab use only. COMMENTS Pink: Client 으

Denny S. Touthergy, Minerals and Natural Resources Department

DEPUTY OIL & GAS INSPECTOR

### OIL CONSERVATION DIVISION

JUN 23 1998

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

PIT REMEDIATION AND CLOSURE REPORT

Operator:

Devon Energy

Telephone:

(801) 584-6361

Address:

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

WellName:

NEBU # 26 A

( 85515 )

Location:

Unit or Qtr/Qtr Sec D Sec 8 T 30

R 7

County San Juan

PitType

Dehydrator

LandType:

State

Pit Location: Pit dimensions: length 16ft., width 13ft., depth 10ft.

(Attach diagram)

Reference: Wellhead

Footage from reference:

67 ft.

Direction from reference:

180 Degrees East of North

Depth To Ground Water:

(Vertical distance from contaminants to seasonal high water elevation of

ground water)

Less than 50 feet (20 points) 50 feet to 99 feet (10 points)

Greater than 100 feet (0 points) 10

Wellhead Protection Area:

(Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)

Yes (20 points) No (0 points)

OIL CON. DIV. DIST, 3

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):

20

0

Date Remediation Started: 11/3/97

Date Completed: 11/3/97

Remediation Method: Excavation -

Approx. Cubic Yard 77

(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:

Sample location NEBU # 26 A-V-EXFL-01

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

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 10 FEET

Sample date 11/4/97

Sample time 09:50

Sample Result

Benzene (ppm) <0.10

Total BTEX (ppm) <0.40

Field Headspace (ppm)

TPH (ppm) 240

Ground Water Sample: 0

> 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 AND TITLE

PIT	RET	<b>IREN</b>	<b>JEN</b>	IT F	ORM
-----	-----	-------------	------------	------	-----

	PIT RETIREME	NT FORM			
Date: 11.3.97	 		Weathe	r_50NNY 60's	<b>;</b>
Well Name NEBU # 26 A C	perator Devon En	ERGY Sec		30 R 7 UL_	
Land Type: BLM STATE FEE			unty_s~		
One Call Made (505-765-1234)?	$\bigcirc$ N		<u> </u>		<del></del>
Line Marking Evident?	Ø N			<del></del>	7 ~
Elilo Marang Evidorii .	W 11				
Pit Location:					1
Reference Wellheadx	Other		<b>6</b>		
Distance from: 67					<i>ــر ا</i>
Direction: 180° Degrees _	× E N × of S		) M		
Starting Dit Dimonsions 12	. 12 1		4/	/ px	E _
F: 100 D:	X12X1 X13X10				
Organic Vapor Readings: Start _	Soil Desc	rintion:	SITE SKET		
@ 2'		piiori	ROCKY S	H	<del></del> :
@ 4′			ч	0	
@ 6′			,	) t	
@ 8′			11	II.	
@ 10'			ROCK FL	.SBR	
@			<del></del>		
Arroyo, Wash	omestic Water Wel , Lake, Stream Known Distance to	>	400	,	
Source of Backfill (if other than pr	ocessed material _				
Pro	ogress:(Verification: ogress:(Verification: ogress: Verification:	) ID NERU#:	26 A · V · EX W	L.OI SOI	il) water il) water il / water
Sample sent to Lab Via: Courier	Hand Carried O	her	Preservativ	ve: ICE Othe	er er
	Comments: Sr				
£ 125 1233	AND SAND LAND		S TE	QUICKEY ~	KOLKS
2/10/25/25		- TIPET TED			<del></del>
2 (1)					
(^~7~ X~-'					
~	Soil Shipped to:				
(pit sketch-show sample pts.)	Prepared by: Wan	1 I W.	l.		
(bit sketch-show sample bis.)					



# ORGANIC ANALYSIS REPORT

Client: Williams Field Services Date Sampled: November 04, 1997 Date Received: November 12, 1997

**AMERICAN WEST ANALYTICAL LABORATORIES** 

Analysis Requested: Total Petroleum Hydrocarbons Volatile Aromatics

Field Sample ID:

NEBU #26A-V-EXWA-01 @ 9:40/85515 JICARILLA PIT REMEDIATION

Contact: Mark Harvey

Date Extracted: November 11, 1997 Date Analyzed: November 13, 1997

Method Ref. Number:

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

Lab Sample ID: L31468-5

	Analytical Results		BTX/TPH-E	
463 West 3600 South Salt Lake City, Utah	Units = $mg/kg(ppm)$	Reporting	Amount	
84115	Compound:	<u>Limit:</u>	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	18.	

4.0% % 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: November 04, 1997 Date Received: November 12, 1997

Date Analyzed: November 13, 1997 Method Ref. Number:

**AMERICAN** WEST **ANALYTICAL LABORATORIES** 

Analysis Requested: Total Petroleum Hydrocarbons

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

Contact: Mark Harvey Date Extracted: November 11, 1997

Field Sample ID:

NEBU #26A-V-EXFL-01 @ 9:50/85515 JICARILLA PIT REMEDIATION

Lab Sample ID: L31468-6

Analytical Results		TPH-E		
463 West 3600 South Salt Lake City, Utah 84115	Units = mg/kg(ppm)  Compound:	Reporting <u>Limit:</u>	Amount Detected:	
	Benzene Toluene	0.10 0.10	< 0.10 < 0.10	
(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687	Ethylbenzene Total Xylene	0.10 0.10	< 0.10 < 0.10	
	Total Petroleum Hydrocarbons	2.0	240.	

	 <del></del>	 <del> </del>
% Moisture		8.0%

All compounds are reported on a dry weight basis.

Released By:

Report Date: November 24, 1997

1 of 1



# ORGANIC ANALYSIS REPORT

Client: Williams Field Services Date Sampled: November 21, 1997 Date Received: November 24, 1997 Contact: Mark Harvey

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

**AMERICAN WEST** ANALYTICAL LABORATORIES

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

Analysis Requested: Total Petroleum Hydrocarbons

> Lab Sample ID: L31589-23

Field Sample ID:

NEBU #26A-V-LF-01 @ 11:30/85515 20 PPM

JICARILLA PIT REMEDIATION

**Analytical Results** 

TPH-E

463 West 3600 South Salt Lake City, Utah 84115 Units = mg/kg(ppm)

Compound:

Total Petroleum Hydrocarbons

Reporting Limit:

2.0

Amount Detected:

15.

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

% Moisture

6.0%

All compounds are reported on a dry weight basis.

Report Date: November 26, 1997

1 of 1

LANDFARM