

District I  
P.O. Box 999  
District II  
P.O. Box 999  
District III  
1000 Rio Brazos Rd., Santa Fe, NM 87504-2088  
JUN 23 1998

State of New Mexico  
Energy, Minerals and Natural Resources Department  
OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

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

## PIT REMEDIATION AND CLOSURE REPORT

Operator: Devon Energy Corporation Telephone: (505) 324-0033

Address: 3300 North Butler Avenue, Suite 211, Farmington, NM 87401

Facility Or: N. E. Blanco Unit # 65

Well Name

Location: Unit or Qtr/Qtr Sec B Sec 11 T 31N R 7W County San Juan

Pit Type: Separator X Dehydrator \_\_\_\_\_ Other \_\_\_\_\_

Land Type: BLM \_\_\_\_\_ State X Fee \_\_\_\_\_ Other \_\_\_\_\_

Pit Location: Pit dimensions: Length 10 ft, width 18 ft, depth 1 ft  
(Attach diagram)

Reference: wellhead X other \_\_\_\_\_

Footage from reference: 42 ft

Direction from reference: 65 Degrees X East North X  
of  
West South \_\_\_\_\_

Depth to Ground Water: 66 ft  
(vertical distance from  
contaminants to seasonal  
highwater elevation of  
ground water)

_____	Less than 50 feet	(20 points)	
<u>X</u>	50 ft to 99 feet	(10 points)	
_____	Greater than 100 feet	(0 points)	<u>10</u>

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)	
<u>X</u>	No	(0 points)	<u>0</u>

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 1000 feet	(10 points)	
<u>X</u>	Greater than 1000 feet	(0 points)	<u>0</u>

P:\pits\PrnC@WK3

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: N/A Date Completed: \_\_\_\_\_

Excavation \_\_\_\_\_ Approx. cubic yards \_\_\_\_\_

Landfarmed \_\_\_\_\_ Insitu Bioremediation \_\_\_\_\_

Other \_\_\_\_\_

Remediation Method: Onsite \_\_\_\_\_ Offsite \_\_\_\_\_

(Check all appropriate sections)

General Description of Remedial Action : Initial assessment showed soils to be clean 3' below pit bottom.

Ground Water Encountered: No X Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit:

Closure Sampling:  
(if multiple samples,  
attach sample results

and diagram of sample  
locations and depths)

Sample location Center of pit

Sample depth 3' below pit bottom

Sample date 5/29/97 Sample time \_\_\_\_\_

#### Sample Results

Benzene(ppm) \_\_\_\_\_

Total BTEX (PPM) \_\_\_\_\_

Field Headspace (ppm) 32.9

TPH ND

Ground Water Sample: Yes \_\_\_\_\_ No X (if yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETED TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE 2-27-98 PRINTED NAME Jim Abbey

SIGNATURE James K. Abbey and TITLE Operations Engineer

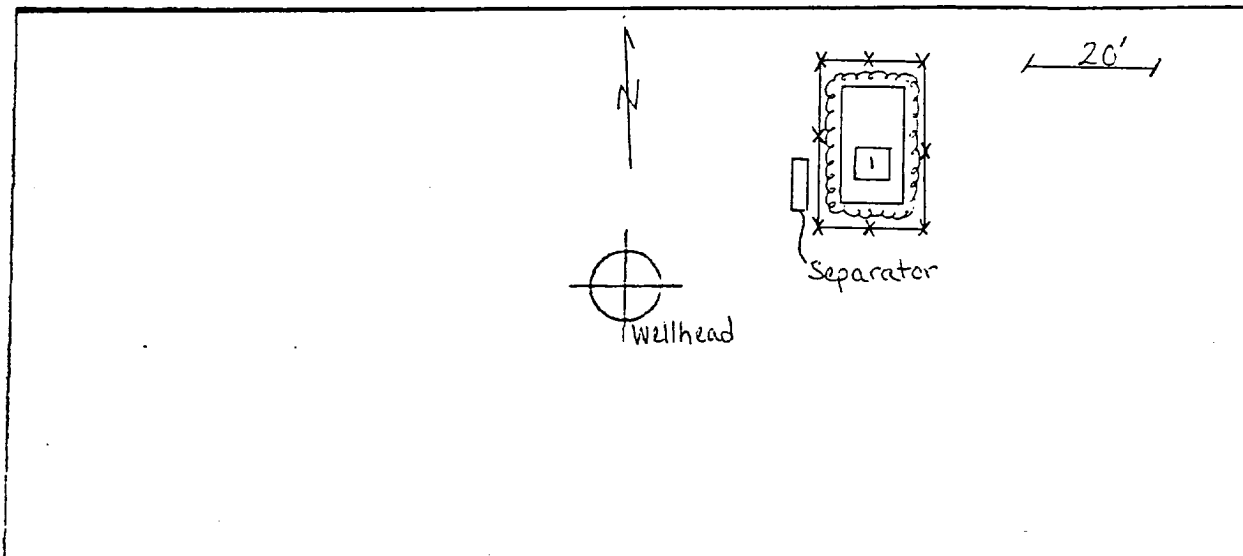
# FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: _____ Location: <u>N. E. Blanco Unit # 65</u></p> <p>Operator #: _____ Operator Name: _____ P/L District: _____</p> <p>Coordinates: Letter: <u>B</u> Section <u>11</u> Township: <u>31N</u> Range: <u>7W</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: <u>Sep.</u></p> <p>Site Assessment Date: <u>5-29-97</u> Area: <u>Middle</u> Run: _____</p>
SITE ASSESSMENT	<p><b>NMOCD Zone:</b> (From NMOCD Maps)</p> <p>Inside <input checked="" type="checkbox"/> (1)</p> <p>Outside <input type="checkbox"/> (2)</p> <p><b>Land Type:</b></p> <p>BLM <input type="checkbox"/> (1)</p> <p>State <input checked="" type="checkbox"/> (2)</p> <p>Fee <input type="checkbox"/> (3)</p> <p>Indian _____</p> <p><b>Depth to Groundwater</b></p> <p>Less Than 50 Feet (20 points) <input type="checkbox"/> (1)</p> <p>50 Ft to 99 Ft (10 points) <input checked="" type="checkbox"/> (2)</p> <p>Greater Than 100 Ft (0 points) <input type="checkbox"/> (3)</p> <p><b>Wellhead Protection Area :</b></p> <p>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? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)</p> <p><b>Horizontal Distance to Surface Water Body</b></p> <p>Less Than 200 Ft (20 points) <input type="checkbox"/> (1)</p> <p>200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2)</p> <p>Greater Than 1000 Ft (0 points) <input checked="" type="checkbox"/> (3)</p> <p>Name of Surface Water Body _____</p> <p>(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)</p> <p>Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) &lt; 100' (Navajo Pits Only)</p> <p><input type="checkbox"/> (2) &gt; 100'</p> <p><b>TOTAL HAZARD RANKING SCORE:</b> <u>10</u> <b>POINTS</b></p>
REMARKS	<p>Remarks : _____</p> <p>_____</p> <p>_____</p>

## ORIGINAL PIT LOCATION

## ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 65 Footage from Wellhead 42'  
b) Length : 10' Width : 18' Depth : 1'



## REMARKS

## Remarks :

Soil is reddish-brown clay, moist, cohesive, no noticeable odor.

Sample taken from center bottom of pit @ 4' deep gave an OVM reading of 32.9 ppm. The sample was sent to Anaitas, Inc. for DRO/GRO 8015 analysis.

Completed By:

Monica D. Rodahl

Signature

5-29-97

Date

Location : <b>NEBU # 85</b>		Overview of Location and Sampling :																																								
Quad : <b>B</b>	Section : <b>11</b>																																									
Range : <b>7W</b>	Township: <b>31N</b>																																									
Pit : <b>Sep.</b>																																										
Reference : <b>42' N. 65°</b> from wellhead																																										
Initial Size : <b>10' x 18' x 1' deep</b> Final Size : <b>10' x 18' x 1' deep</b> Yds. Excavated : <b>0 cy</b>																																										
Depth to Groundwater: <b>66'</b>																																										
Nearest Water Source: <b>&gt;1000'</b>																																										
Nearest Surface Water: <b>&gt;1000'</b>																																										
NMOCD Ranking Score: <b>10</b>																																										
TPH Closure Standard: <b>1000 ppm</b>																																										
Comments : <b>Reddish-brown clay, moist, cohesive, no noticeable odor</b>																																										
Sent Sample #1 to Anaitas for DRO/GRO 8015.																																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="padding: 2px;">Sample #</th> <th style="padding: 2px;">Location</th> <th style="padding: 2px;">OVM</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">1</td><td style="text-align: center;">Btm. @ 4'</td><td style="text-align: center;">32.9</td></tr> <tr><td style="text-align: center;">2</td><td></td><td></td></tr> <tr><td style="text-align: center;">3</td><td></td><td></td></tr> <tr><td style="text-align: center;">4</td><td></td><td></td></tr> <tr><td style="text-align: center;">5</td><td></td><td></td></tr> <tr><td style="text-align: center;">6</td><td></td><td></td></tr> <tr><td style="text-align: center;">7</td><td></td><td></td></tr> <tr><td style="text-align: center;">8</td><td></td><td></td></tr> <tr><td style="text-align: center;">9</td><td></td><td></td></tr> <tr><td style="text-align: center;">10</td><td></td><td></td></tr> <tr><td style="text-align: center;">11</td><td></td><td></td></tr> <tr><td style="text-align: center;">12</td><td></td><td></td></tr> </tbody> </table>				Sample #	Location	OVM	1	Btm. @ 4'	32.9	2			3			4			5			6			7			8			9			10			11			12		
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Pit Profile : North to South :																																										
Pit Profile : East to West :																																										



## TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

### Diesel Range Organics

#### Devon Energy Corporation

Project ID: NEBU #65 - Separator Pit  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Intact

Report Date: 06/13/97  
Date Sampled: 05/29/97  
Date Received: 05/29/97  
Date Extracted: 06/05/97  
Date Analyzed: 06/10/97


Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Btm @ 4'	7015	ND	33.1

ND- Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	o - Terphenyl	87%	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:

  
Analyst

  
Review



## TOTAL VOLATILE PETROLEUM HYDROCARBONS

### Gasoline Range Organics

#### Devon Energy Corporation

Project ID: NEBU #65  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Intact

Report Date: 06/16/97  
Date Sampled: 05/29/97  
Date Received: 05/29/97  
Date Extracted: 06/05/97  
Date Analyzed: 06/12/97

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Btm @ 4'	7015	ND	33.9

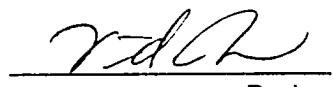
ND- Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	99%	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:**

  
Analyst

  
Review

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

**Method Blank Analysis**

Project ID: NA  
Sample Matrix: Soil  
Preservative: NA  
Condition: NA

Report Date: 06/13/97  
Date Sampled: NA  
Date Received: NA  
Date Extracted: 06/05/97  
Date Analyzed: 06/10/97

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Method Blank	MB35586	ND	20.0

ND- Analyte not detected at the stated detection limit.

<b>Quality Control:</b>	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	o - Terphenyl	92%	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:**

  
Analyst

  
Review



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

**Matrix Spike Analysis**

Project ID: NA  
Sample Matrix: Soil  
Preservative: NA  
Condition: NA

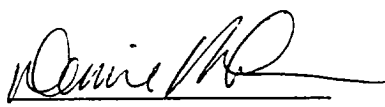
Report Date: 06/13/97  
Date Sampled: NA  
Date Received: NA  
Date Extracted: 06/05/97  
Date Analyzed: 06/10/97


Lab ID	Spike Added (mg/kg)	Original Conc. (mg/kg)	Spike Conc. (mg/kg)	Percent Recovery
MBSPK35591	2,260	ND	2,050	91%

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:**

  
Analyst

  
Review

**QUALITY CONTROL REPORT**  
**TOTAL VOLATILE PETROLEUM HYDROCARBONS**  
**Gasoline Range Organics**

**Method Blank Analysis**

Project ID: NA  
Sample Matrix: Soil  
Preservative: NA  
Condition: NA

Report Date: 06/12/97  
Date Sampled: NA  
Date Received: NA  
Date Extracted: 06/05/97  
Date Analyzed: 06/12/97

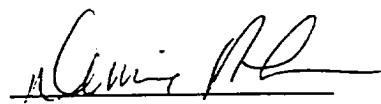
Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Method Blank	MB35586	ND	22.5


ND- Analyte not detected at the stated detection limit.

<b>Quality Control:</b>	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	103%	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:**

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Review

**QUALITY CONTROL REPORT**  
**TOTAL VOLATILE PETROLEUM HYDROCARBONS**  
**Gasoline Range Organics**

**Matrix Spike Analysis**

Project ID: NA  
Sample Matrix: Soil  
Preservative: NA  
Condition: NA

Report Date: 06/12/97  
Date Sampled: NA  
Date Received: NA  
Date Extracted: 06/05/97  
Date Analyzed: 06/12/97


Lab ID	Spike Added (mg/kg)	Original Conc (mg/kg)	Spike Conc (mg/kg)	Percent Recovery
MBSPK35593	2,100	ND	1,760	84%


ND- Analyte not detected at the stated detection limit.

<b>Quality Control:</b>	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	111%	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:**

  
Analyst

  
Review

