

District I

P.O. Box 1920, Hobbs, NM

District II

P.O. Drawer DD, Artesia, NM 88211

District III **DEPUTY OIL & GAS INSPECTOR**

1000 Rio Brazos Rd, Aztec, NM 87410

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 # 73

Well Name

Location: Unit or Qtr/Qtr Sec L Sec 35 T 31N R 7W County San Juan

Pit Type: Separator X Dehydrator        Other       

Land Type: BLM X State        Fee        Other       

Pit Location: Pit dimensions: Length 15 ft width 15 ft depth 0 ft  
(Attach diagram)

Reference: wellhead X other       

Footage from reference: 80 ft

Direction from reference: 20 Degrees        East North         
of  
X West South X

Depth to Ground Water: 47 ft  
(vertical distance from  
contaminants to seasonal  
highwater elevation of  
ground water)

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

Wellhead Protection Area:  
(less than 200 feet from a private  
domestic water source, or: less than  
1000 feet from all other water sources).

<u>      </u>	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.)

<u>      </u>	Less than 200 feet	(20 points)	
<u>X</u>	200 feet to 1000 feet	(10 points)	
<u>      </u>	Greater than 1000 feet	(0 points)	<u>10</u>

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 Beside fiberglass pit in direction of surface gradient (See attached diagram).

Sample depth 3' below pit bottom

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

Sample Results

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

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

Field Headspace (ppm) 0.8

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

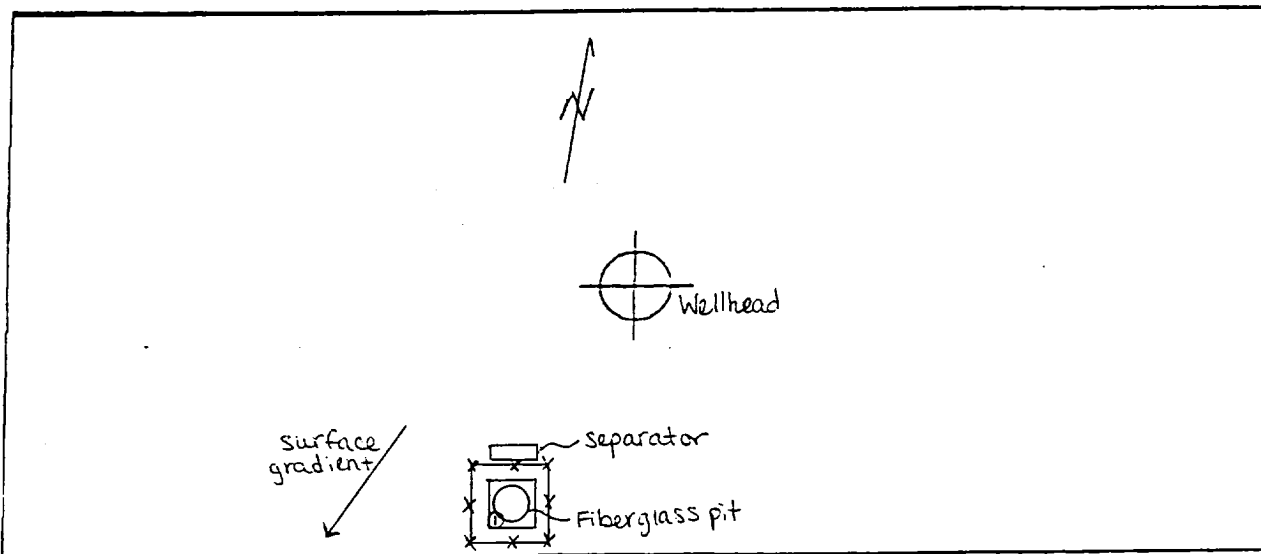
## FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: _____ Location: <u>N. E. Blanco Unit # 73</u> Operator #: _____ Operator Name: _____ P/L District: _____ Coordinates: Letter: <u>L</u> Section <u>35</u> Township: <u>31N</u> Range: <u>7W</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: <u>Sep.</u> Site Assessment Date: <u>5-29-97</u> Area: <u>Middle</u> Run: _____	
SITE ASSESSMENT	NMOCD Zone: _____ Land Type: BLM. <input checked="" type="checkbox"/> (1) (From NMOCD State <input type="checkbox"/> (2) Maps) Inside <input checked="" type="checkbox"/> (1) Fee <input type="checkbox"/> (3) Outside <input type="checkbox"/> (2) Indian _____	
	Depth to Groundwater Less Than 50 Feet (20 points) <input checked="" type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input type="checkbox"/> (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? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)	
	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) <input type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input checked="" type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3) Name of Surface Water Body <u>Navajo Lake</u> (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only) <input type="checkbox"/> (2) > 100'	
	TOTAL HAZARD RANKING SCORE: <u>30</u> POINTS	
REMARKS	Remarks : _____	

## ORIGINAL PIT LOCATION

## ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 200 Footage from Wellhead 80'  
b) Length : 15' Width : 15' Depth : 0'



## REMARKS

## Remarks :

Soil is brown-gray clay with rusty spots, moist, cohesive, no odor.

Sample was taken beside fiberglass pit in the direction of the surface gradient at a depth of 3'. The OVM reading was 0.8 ppm. The sample was sent to Anaitas, Inc. for DRO/GRO 8015 analysis.

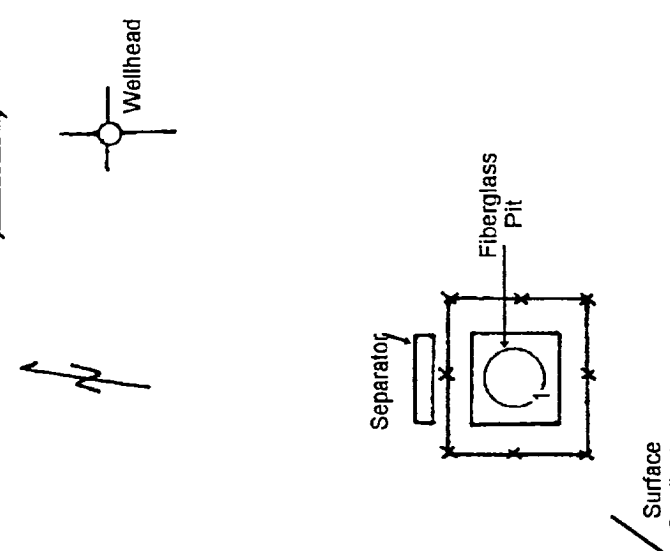
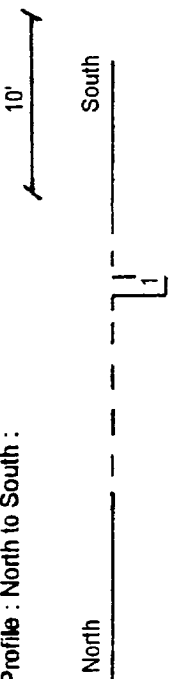
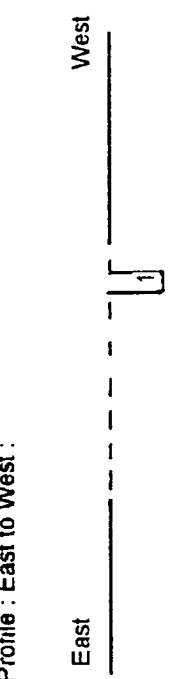
Completed By:

Monica D. Rodahl

Signature

5-29-97

Date

<b>Location : NEBU #73</b>		<b>Overview of Location and Sampling :</b>																																										
<b>Quad : L      Section : 35</b>		<b>Range : 7W      Township: 31N</b>																																										
<b>Pit : Sep.</b> <b>Reference : 80' N. 200°</b> from wellhead <b>Initial Size : 15' x 15' x 0' deep</b> <b>Final Size : 15' x 15' x 0' deep</b> <b>Yds. Excavated : 0 cy</b>		<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th>Sample #</th><th>Location</th><th>OVM</th></tr></thead><tbody><tr><td>1</td><td>Blm. @ 3'</td><td>0.8</td></tr><tr><td>2</td><td></td><td></td></tr><tr><td>3</td><td></td><td></td></tr><tr><td>4</td><td></td><td></td></tr><tr><td>5</td><td></td><td></td></tr><tr><td>6</td><td></td><td></td></tr><tr><td>7</td><td></td><td></td></tr><tr><td>8</td><td></td><td></td></tr><tr><td>9</td><td></td><td></td></tr><tr><td>10</td><td></td><td></td></tr><tr><td>11</td><td></td><td></td></tr><tr><td>12</td><td></td><td></td></tr></tbody></table>		Sample #	Location	OVM	1	Blm. @ 3'	0.8	2			3			4			5			6			7			8			9			10			11			12			<b>Comments : Brown-gray clay with rusty spots, moist, cohesive, no odor</b>  <b>Sent Sample #1 to Anaitas for DRO/GRO 8015.</b>	
Sample #	Location	OVM																																										
1	Blm. @ 3'	0.8																																										
2																																												
3																																												
4																																												
5																																												
6																																												
7																																												
8																																												
9																																												
10																																												
11																																												
12																																												
<b>Depth to Groundwater: 47'</b> <b>Nearest Water Source: &gt;1000'</b> <b>Nearest Surface Water: 238'</b> <b>NMOCD Ranking Score: 30</b> <b>TPH Closure Standard: 100 ppm</b>																																												
<b>Pit Profile : North to South :</b>		<b>Pit Profile : East to West :</b>																																										
																																												



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

**Devon Energy Corporation**

Project ID: NEBU #73 - 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: 06/12/97


Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Btm @ 3'	7012	ND	30.4


ND- Analyte not detected at the stated detection limit.

Quality Control:                      Surrogate                      % Recovery                      Acceptance Limits  
   o - Terphenyl                      91%                      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 #73 - Separator Pit  
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

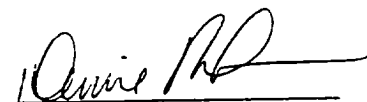
Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Btm @ 3'	7012	ND	32.6

ND- Analyte not detected at the stated detection limit.

<b>Quality Control:</b>	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	98%	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: 06/12/97


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

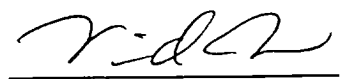
ND- Analyte not detected at the stated detection limit.

<b>Quality Control:</b>	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	o - Terphenyl	98%	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

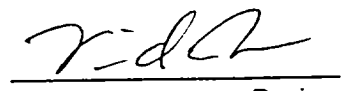
Lab ID	Spike Added (mg/kg)	Original Conc (mg/kg)	Spike Conc (mg/kg)	Percent Recovery
MBSPK35591	2,260	ND	2,050	91%

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

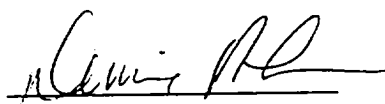
Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Method Blank	MB35586	ND	22.5


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

