District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM
District III
1000 Rio Brazos Rd., Aztec, NM 87410

Kenny E. Faust
DEPUTY OIL & GAS INSPECTOR
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

Approved

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

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

Facility Or: N. E. Blanco Unit # 56A
Well Name

Location: Unit or Qtr/Qtr Sec E Sec 34 T 31N R 7W County San Juan

Pit Type: Separator X Dehydrator _____ Other _____

Land Type: BLM X, State _____, Fee _____, Other _____

Pit Location: (Attach diagram)

Pit dimensions: Length 7 ft, width 7 ft, depth 2 ft

Reference: wellhead X other _____

Footage from reference: 93 ft

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

---

Depth to Ground Water: (vertical distance from contaminants to seasonal highwater elevation of ground water) 210 ft	____	Less than 50 feet	(20 points)	
	____	50 ft to 99 feet	(10 points)	
	X	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).	____	Yes	(20 points)	
	X	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)	
	X	200 feet to 1000 feet	(10 points)	
	____	Greater than 1000 feet	(0 points)	10

P:\pits\PrrC@.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 where bedrock was encountered.

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 6/3/97 Sample time _____

Sample Results

Benzene(ppm) ND

Total BTEX (PPM) ND

Field Headspace (ppm) 202.2

TPH 43.8ppm

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 Jim K Abbey and TITLE Operations Engineer

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: _____ Location: N. E. Blanco Unit # 56A

Operator #: _____ Operator Name: _____ P/L District: _____

Coordinates: Letter: E Section 34 Township: 31N Range: 7W

Or Latitude _____ Longitude _____

Pit Type: Dehydrator ___ Location Drip: ___ Line Drip: ___ Other: Sep.

Site Assessment Date: 6-3-97 Area: Middle Run: ___

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps) Inside ☒ (1) Outside ☐ (2)

Land Type: BLM ☒ (1) State ☐ (2) Fee ☐ (3) Indian _____

Depth to Groundwater

Less Than 50 Feet (20 points) ☐ (1)

50 Ft to 99 Ft (10 points) ☐ (2)

Greater Than 100 Ft (0 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? ☐ (1) YES (20 points) ☒ (2) NO (0 points)

Horizontal Distance to Surface Water Body

Less Than 200 Ft (20 points) ☐ (1)

200 Ft to 1000 Ft (10 points) ☒ (2)

Greater Than 1000 Ft (0 points) ☐ (3)

Name of Surface Water Body Navajo Lake

(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

Distance to Nearest Ephemeral Stream ☐ (1) < 100' (Navajo Pits Only)

☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 10 **POINTS**

REMARKS

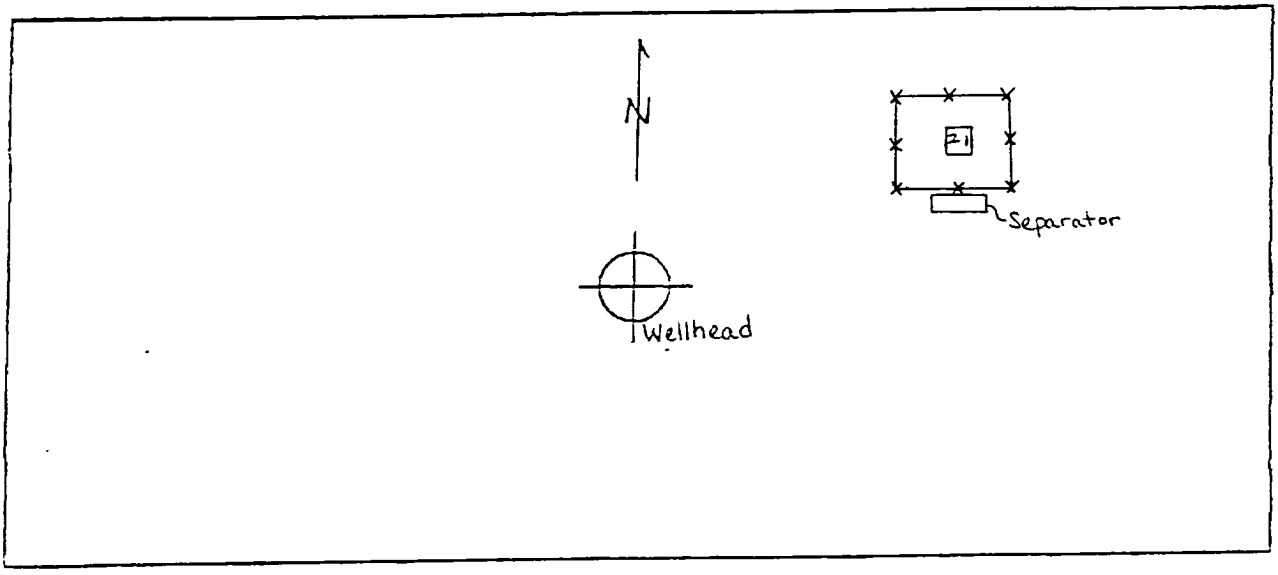
Remarks : _____

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 65 Footage from Wellhead 93'

b) Length : 7' Width : 7' Depth : 2'



REMARKS

Remarks :

Soil Characteristics: 0' - 2' Light reddish-tan, sandy silt, dry, no odor

2' - 5' Brownish-gray sandy clay with some gray to black staining, strong odor, wet

5' Hard rock

A sample was taken from bottom of pit @ 3.5' where hard rock was encountered. The OVM gave a reading of 290 ppm.

Another sample was taken from the bottom of the pit @ 5' where hard rock was encountered. The OVM gave a reading of 202.2 ppm. This sample was sent to Anaitas, Inc. for DRO/GRO 8015 and BTEX 8020 analysis.

Completed By:

Monica D. Rodahl

Signature

6-3-97

Date

Client : Devon Energy

Date Started : 3 June 1997 Date Completed : 3 June 1997

Location : NEBU # 56A

Quad : E Section : 34

Range : 7W Township: 31N

Pit : Sep.
Reference : 93' N. 65° from wellhead
Initial Size : 7' x 7' x 2' deep
Final Size : 7' x 7' x 2' deep
Yds. Excavated : 0 cy

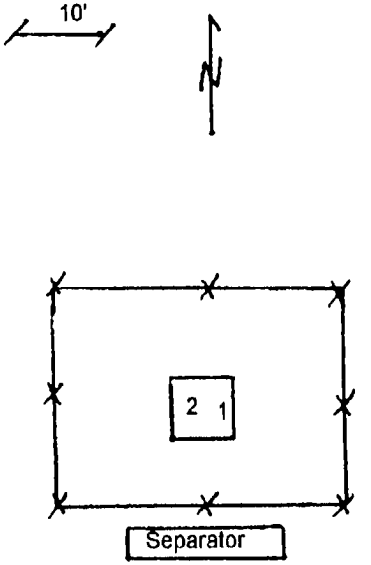
Depth to Groundwater:	210'
Nearest Water Source:	>1000'
Nearest Surface Water:	476'
NMOCD Ranking Score:	10
TPH Closure Standard:	1000 ppm

Sample #	Location	OVM
1	Btm@3.5'	290
2	Btm. @ 5'	202.2
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

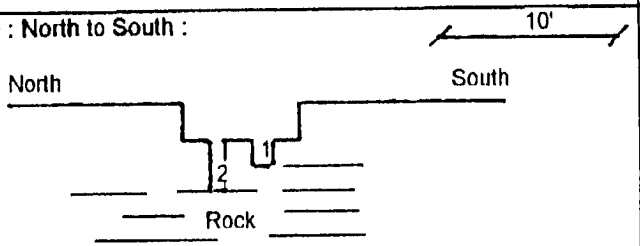
Comments : 0' - 2' Light reddish-tan, sandy silt, dry, no odor
2' - 5' Brownish-gray sandy clay with some gray to black staining, strong odor, wet
5' Hard rock

Sent sample from bottom @ 5' to Anaitas for DRO/GRO 8015 and BTEX 8020.

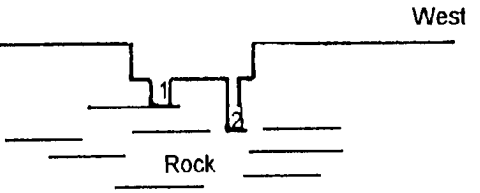
Overview of Location and Sampling :



Pit Profile : North to South :



Pit Profile : East to West :



Environmental Specialist : MDR

Cimarron Oilfield Services

ANAITAS ENVIRONMENTAL LABS

Organic Analysis - Pit Closure

Devon Energy Corporation

Project ID:	NEBU #56A	Report Date:	06/19/97
Sample ID:	Btm @ 5'	Date Sampled:	06/03/97
Lab ID:	7018	Date Received:	06/04/97
Sample Matrix:	Soil	Preservative:	Cool
		Condition:	Intact

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
Total Aromatic Hydrocarbons	**ND**	
Benzene	ND	0.66
Toluene	ND	0.66
Ethylbenzene	ND	0.66
m,p-Xylenes	ND	1.32
o-Xylene	ND	0.66
Total Volatile Petroleum Hydrocarbons	**ND**	**59.2**
Total Recoverable Petroleum Hydrocarbons	**43.8**	**28.6**

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	113	81 - 117%
	Trifluorotoluene	102	50 - 150 %
	o-Terphenyl	101	50 - 150%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Recoverable Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, Final Update I, July, 1992.

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:

Review

VOLATILE AROMATIC HYDROCARBONS
QUALITY CONTROL REPORT

Method Blank Analysis

Sample Matrix: Soil
Lab ID: MB35593

Report Date: 06/19/97
Date Extracted: 06/05/97
Date Analyzed: 06/12/97

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
Benzene	ND	0.25
Toluene	ND	0.25
Ethylbenzene	ND	0.25
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.25

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	116	81-117%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, Final Update I, July 1992.

Comments:

Analyst

Review

VOLATILE AROMATIC HYDROCARBONS

Matrix Spike Analysis

Lab ID: MB35624Spk
Sample Matrix: Soil
Preservative: NA
Condition: NA

Report Date: 06/19/97
Date Sampled: NA
Date Received: NA
Date Extracted: 06/05/97
Date Analyzed: ~~07~~/13/97
06
wrong date?

Target Analyte	Spike Added (mg/kg)	Original Conc. (mg/kg)	Spiked Sample Conc. (mg/kg)	% Recovery	Acceptance Limits (%)
Benzene	200	ND	177	88%	39-150
Toluene	200	ND	275	138%	32-160
Ethylbenzene	200	ND	199	100%	46-148
m,p-Xylenes	400	ND	409	102%	NE
o-Xylene	200	ND	245	123%	NE

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.
NE - Spike acceptance range not established by the EPA.

Quality Contro	Surrogate	% Recovery	Acceptance Limits
	Trifluorotoluene	102	81 - 117%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Analyst

Review

VOLATILE AROMATIC HYDROCARBONS

Duplicate Analysis

Lab ID:	7014	Report Date:	06/16/97
Sample Matrix:	Soil	Date Sampled:	06/03/97
Preservative:	Cool	Date Received:	06/04/97
Condition:	Intact	Date Extracted:	06/05/97
		Date Analyzed:	06/12/97

Target Analyte	Original Conc. (mg/kg)	Duplicate Conc. (mg/kg)	Acceptance Range (mg/kg)
Benzene	ND	ND	NA
Toluene	ND	ND	NA
Ethylbenzene	ND	ND	NA
m,p-Xylenes	ND	ND	NE
o-Xylene	ND	ND	NE

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.
NE - Duplicate acceptance range not established by the EPA.

Quality Control:

Surrogate	% Recovery	Acceptance Limits
Trifluorotoluene	104	81 - 117%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, Final Update I, July, 1992.

Comments:

Analyst

Review

QUALITY CONTROL REPORT
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
Diesel Range Organics

Method Blank Analysis

Project ID:	NA	Report Date:	06/13/97
Sample Matrix:	Soil	Date Sampled:	NA
Preservative:	NA	Date Received:	NA
Condition:	NA	Date Extracted:	06/05/97
		Date Analyzed:	06/11/97

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.

Quality Control:

Surrogate	% Recovery	Acceptance Limits
o - Terphenyl	94%	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	Report Date:	06/13/97
Sample Matrix:	Soil	Date Sampled:	NA
Preservative:	NA	Date Received:	NA
Condition:	NA	Date Extracted:	06/05/97
		Date Analyzed:	06/11/97

Lab ID	Spike Added (mg/kg)	Orginal Conc. (mg/kg)	Spike Conc. (mg/kg)	Percent Recovery
MBSPK35592	2,260	ND	2,120	94%

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: 06/19/97
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.

Quality Control:

Surrogate	% Recovery	Acceptance Limits
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	Report Date:	06/19/97
Sample Matrix:	Soil	Date Sampled:	NA
Preservative:	NA	Date Received:	NA
Condition:	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.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	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

Pit Closure Analysis

Analyst Information

Devon Energy Corporation

Report Date: 06/16/97

Lab ID: 7016 - 7019

Parameter	Sample ID	Analyst	Date Extracted	Date Analyzed
BTEX	7016 - 7018	D. Bohemier	06/05/97	06/12/97
				06/13/97
Total Volatile Petroleum Hydrocarbons	7016 - 7018	D. Bohemier	06/05/97	06/12/97
				06/13/97
	7019		06/05/97	06/12/97
				06/13/97
Total Recoverable Petroleum Hydrocarbons	7016 - 7018	D. Bohemier	06/05/97	06/11/97

ANAITAS ENVIRONMENTAL LABS

807 S. CARLTON • FARMINGTON, NM 87401 • (505) 326-2395

CHAIN OF CUSTODY

PROJECT MANAGER:
Analytica Lab I.D.:

Company: Devon Energy
Address:

Phone:
Fax:

Bill To: Devon Energy
Company:
Address:

Sample ID	Date	Time	Matrix	Lab ID	DRO/GRO - 8015	BTEX - 8020	COMMENTS
Btm. @ 5'	6-3-97	10:14	Soil		✓	✓	Cool

ORGANIC ANALYSES | WATER ANALYSES | METALS | COMMENTS

Results to Frank McDonald

Project Information	Sample Receipt
Proj. #: NEBU # 56A	No. Containers:
Proj. Name: Sep. pit	Custody Seals: Y / N / NA
P. O. No:	Received Intact:
Shipped Via:	Received Cold:

Required Turnaround Time (Prior Authorization Required for Rush)

Sampled By:	Relinquished By:	Relinquished By:
Signature / Date: Monica D. Redahl 6-3-97	Signature / Date: Monica D. Redahl 6-4-97	Signature / Date:
Company / Time: Cimarron 10:14	Company / Time: Cimarron 13:41	Company / Time:
Received By:	**Received By:**	**Received By:**
Signature / Date:	Signature / Date:	Signature / Date: 6/4/97
Company / Time:	Company / Time:	Company / Time: Anaitas 13:41

Please Fill Out Thoroughly.

Shaded areas for lab use only.

White/Yellow: Analytica
Pink: Client