District I
P.O. Box 1980, Hobbs, NM
DEPUTY OIL & GAS INSPECTOR
District II
P.O. Drawer DD, Artesia, NM 88211
District III JUN 23 1998
1000 Rio Brazos Rd, Aztec, NM 87410

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

Approved

PIT REMEDIATION AND CLOSURE REPORT

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

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

Facility Or: N. E. Blanco Unit # 3R
Well Name

Location: Unit or Qtr/Qtr Sec K Sec 5 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 12 ft, width 12 ft, depth 0 ft
Reference: wellhead X other _____
Footage from reference: 95 ft
Direction from reference: 0 Degrees _____ East North X of
_____ West South _____

Depth to Ground Water: (vertical distance from contaminants to seasonal highwater elevation of ground water) 107 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 Dated 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 feet 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 5/28/97 Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX (PPM) _____

Field Headspace (ppm) 1.3

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: NEBU #3R

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

Coordinates: Letter: K Section 5 Township: 30N Range: 7W

Or Latitude _____ Longitude _____

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

Site Assessment Date: 5-28-97 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 : Strapping gauge was used to find depth to groundwater to be 107'.

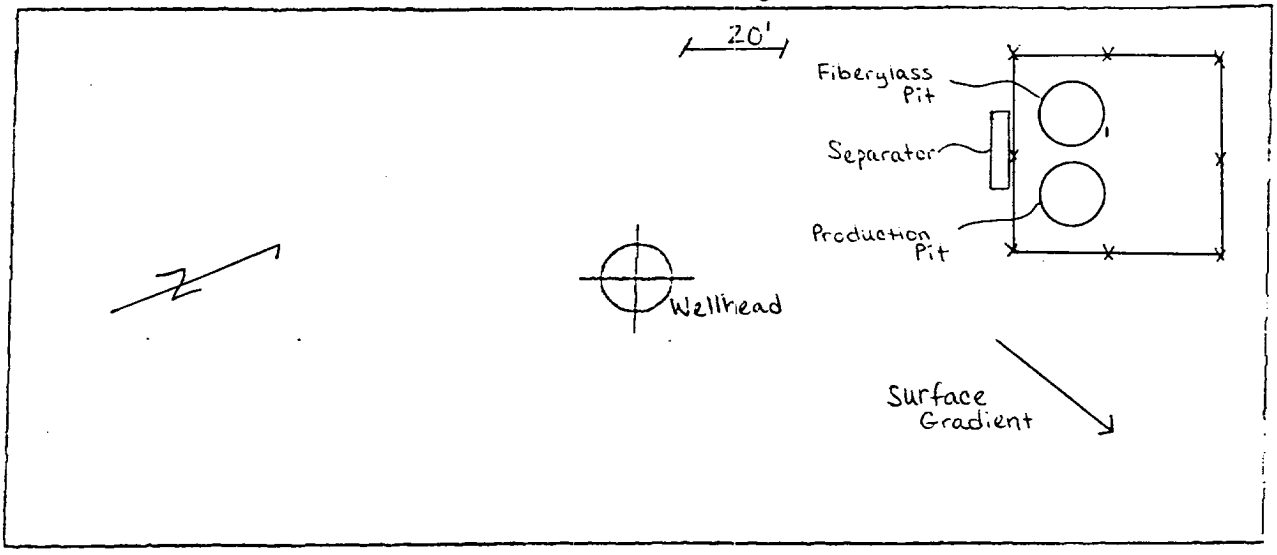
ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 0 Footage from Wellhead 95'

b) Length : _____ Width : _____ Depth : _____

12' Diameter Fiberglass Pit



REMARKS

Remarks :

Soil is dark brown, moist, sandy clay, no noticeable odor, no visible staining. Sample was taken beside the fiberglass pit in the direction of the surface gradient at a depth of 3'. The OVM gave a reading of 1.3 ppm. The sample was sent to Anaitas for DRO/GRO 8015 analysis.

Completed By:

Monica D. Rodahl
Signature

5-28-97
Date

Client : Devon Energy

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

Location : N.E. Blanco Unit # 3R

Quad : K Section : 5

Range : 7W Township: 30N

Pit : Sep. / Prod. Tank

Reference : 95' N. 0° from wellhead

Initial Size: 12' Diam. Fiberglass pit

Final Size: 12' Diam. Fiberglass pit

Yds. Excavated : 0 cy

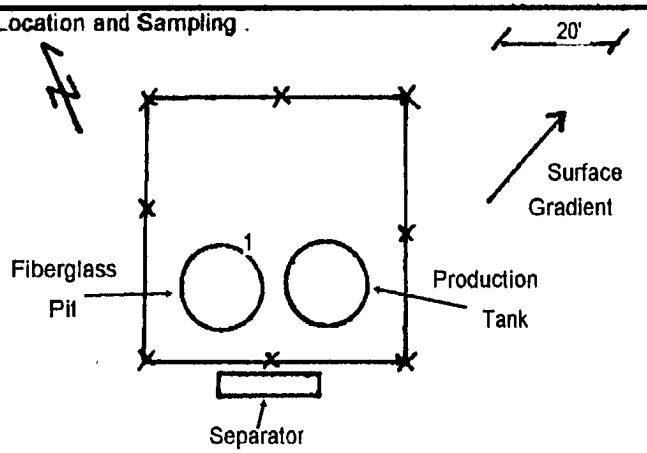
Depth to Groundwater:	107'
Nearest Water Source:	>1000'
Nearest Surface Water:	>200'
NMOCD Ranking Score:	10
TPH Closure Standard:	1000

Sample #	Location	OVM
1	Btm. @ 3'	1.3
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

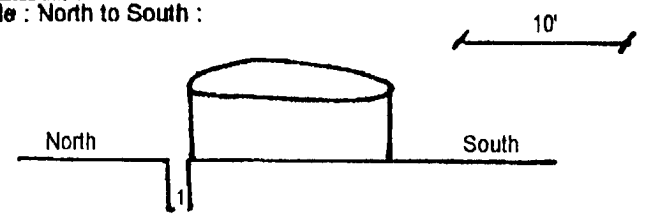
Comments : Dark brown moist sandy clay, no noticeable odor, no visible staining.

Sent Sample #1 to Anaitas for DRO/GRO 8015

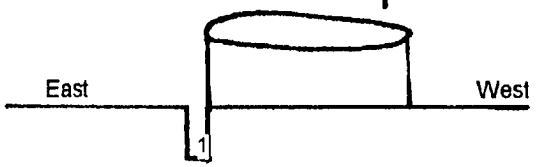
Overview of Location and Sampling .



Pit Profile : North to South :



Pit Profile : East to West :



ANAITAS ENVIRONMENTAL LABS

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Diesel Range Organics

Devon Energy

Project ID:	NEBU 3R	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:	06/10/97

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
BTM @ 3'	6960	ND	27.0

ND- Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	% Recovery	Acceptance Limits
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

ANAITAS ENVIRONMENTAL LABS

TOTAL VOLATILE PETROLEUM HYDROCARBONS

Gasoline Range Organics

Devon Energy

Project ID:	NEBU #3R	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

Sample ID:	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
BTM @ 3'	6960	ND	37.1

ND- Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	% Recovery	Acceptance Limits
Trifluorotoluene	92%	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

Method Blank 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

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Method Blank	MB35583	ND	22.5

ND- Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	% Recovery	Acceptance Limits
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:

Analyst

Review

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

Lab ID	Spike Added (mg/kg)	Original Conc. (mg/kg)	Spike Conc. (mg/kg)	Percent Recovery
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:

Analyst

Review

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:	NA	Date Received:	NA
Condition:	NA	Date Extracted:	06/02/97
		Date Analyzed:	06/10/97

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/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:

Analyst

Review

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

Lab ID	Spike Added (mg/kg)	Original Conc. (mg/kg)	Spike Conc. (mg/kg)	Percent 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:

Analyst

Review

ANAITAS
ENVIRONMENTAL LABS

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

CHAIN OF CUSTODY

PROJECT MANAGER:
Analtas Lab I.D.:

Company: Devon Energy
Address:

Phone:
Fax:

Bill To:
Company: Devon Energy
Address:

Sample ID	Date	Time	Matrix	Lab ID
Bkm.@ 3'	5-28-97	1158	Soil	6960

ORGANIC ANALYSES													
Petroleum Hydrocarbons (418.1)	Gasoline / Diesel (mod. 8015)	Gasoline (GRO)	Aromatic HCs BTEX/MTBE (602 / 8020)	Chlorinated Hydrocarbons (8010)	SDWA Volatiles (502.1 / 503.1)	Chlorinated Pesticides / PCBs (608 / 8080)	Herbicides (615 / 8150)	Volatiles GC/MS (624 / 8240 / 8260)	Base / Neutral / Acid GC/MS (625 / 8270)	Polynuclear Aromatic Hydrocarbons (8100)	TCLP Extraction	Other (specify):
	✓											

WATER ANALYSES								
Cation / Anion	Specific Cations (specify):	Specific Anions (specify):	BOD / Fecal / Total Coliform	Solids: TDS / TSS / SS	Nutrients: NH4+ / NO2– / NO3– / TKN	Oil and Grease	Other (specify):

METALS			
Priority Pollutants	RCRA Metals (Total)	RCRA Metals TCLP (1311)	Other (specify):

COMMENTS
Cool

Project Information	Sample Receipt
Proj. #:	No. Containers: 1
Proj. Name: NEBU #312	Custody Seals: Y / N / NA
P. O. No:	Received Intact: Yes
Shipped Via:	Received Cold: Yes

Required Turnaround Time (Prior Authorization Required for Rush)

Sampled By:
Signature: Monica D. Rodahl Date: 5-28-97
Company: Cimarron Time: 1158

Received By:
Signature: Date:
Company: Time:

Relinquished By:
Signature: Monica D. Rodahl Date: 5-28-97
Company: Cimarron Time: 1706

Received By:
Signature: Date:
Company: Time:

Relinquished By:
Signature: Date:
Company: Time:

Received By:
Signature: Date: 05/28/97
Company: Time: 1706

Please Fill Out Thoroughly.

Shaded areas
for lab use only.

White/Yellow: Analtas
Pink: Client