Failed BTEX ok

State of New Mexico
Energy, Minerals and Natural Resources Department

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

RECEIVED
SEP 23 1999
OIL CON. DIV.
DIST. 3

Ok Risk Analysis

PIT REMEDIATION AND CLOSURE REPORT

Operator: Phillips Petroleum (Williams Field Services) Telephone: (801) 584-6361

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

WellName: SJ 29-5 UNIT #38-32 (86228)

Location: Unit or Qtr/Qtr Sec M Sec 32 T 29N R 5W County Rio Arriba

PitType Dehydrator

LandType: State

Pit Location: Pit dimensions: length 24 ft., width 21 ft., depth 12 ft.
(Attach diagram)

Reference: Wellhead

Footage from reference: 82 ft.

Direction from reference: 7 Degrees West 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)	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) 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) 200 feet to 1,000 feet (10 points) Greater than 1,000 feet (0 points)	0
	Ranking Score (TOTAL POINTS):	0

Form A

(86228)

Date Remediation Started: 11/6/96 Date Completed: 11/18/96

Remediation Method: (check all appropriate sections) Excavation ☑ Approx. Cubic Yard 233

Landfarmed ☑ Insitu Bioremediation ☑

Other Landfarmed soil after mechanical aeration.
LANDFARM HEADSPACE: 0 ppm

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite ☑ Offsite

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. Returned to site 4/6/99 and utilized hydraulic probe to collect sample at 20-22'. TPH: 76.1 HS: 103

Ground Water Encountered: No

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

Sample location SJ 29-5 #38-32 EX-V-01

A composite sample, made up of 4 points from each excavation face, was collected..

Sample depth Up to 12.5 feet

Sample date 11/12/96 Sample time 11:15

Sample Result

Benzene (ppm) 4.21

Total BTEX (ppm) 562

Field Headspace (ppm)

TPH (ppm) 1,910

Ground Water Sample: No

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

DATE 9-20-99

SIGNATURE M L Harvey FOR WFS

PRINTED NAME AND TITLE MARK HARVEY PROJECT COORDINATOR

Form B

86228
X

PIT RETIREMENT FORM

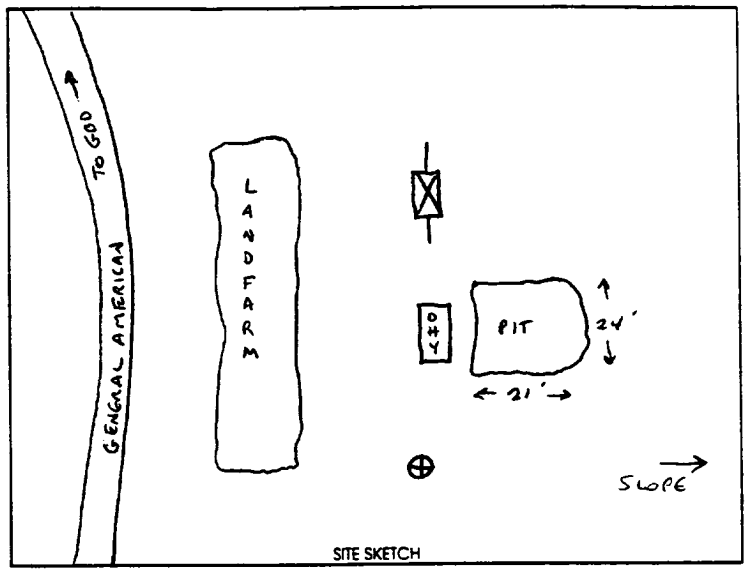
Date: 11/6/96 Weather _____

Well Name SJ 29-5 # 38-32 Operator PHILLIPS PETROLEUM Sec 32 T 29N R 5W UL 865'S 1115'W

Land Type: BLM STATE FEE INDIAN County RIO ARRIBA

One Call Made (505-765-1234)? Y N

Line Marking Evident? Y N



SITE SKETCH

Pit Location:

Reference Wellhead X Other _____

Distance from: 82'

Direction: 7° Degrees ____ E N X of X W S ____

Starting Pit Dimensions 10' x 10' x 2'

Final Pit Dimensions 21 x 21 x 12½

Organic Vapor Readings: Start _____ Soil Description: SILTY SAND & CLAY

@ 2' _____ " " "

@ 4' _____ SILTY SAND

@ 6' _____ " "

@ 8' _____ " "

@ _____

@ _____

Well Proximity To: Residence, Domestic Water Well, Stock Well _____

Arroyo, Wash, Lake, Stream WASH ~200 YDS NE

Estimated or Known Distance to Ground Water _____

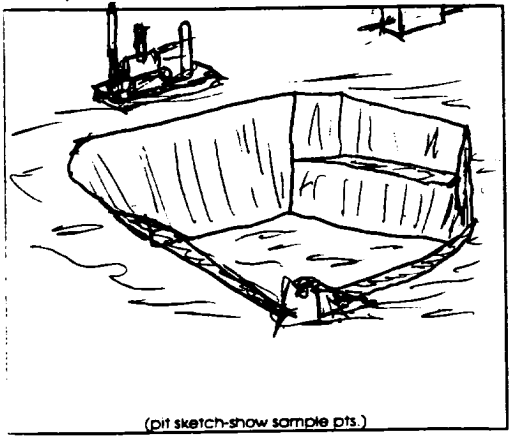
Source of Backfill (If other than processed material _____

Samples collected: Type Progress: Verification: ID SJ29-5 # 38-32 EX-V-01 soil / water

Progress: Verification: ID SJ29-5 # 38-32 LF-V-01 soil / water

Progress: Verification: ID _____ soil / water

Sample sent to Lab Via: Courier (Hand Carried) Other _____ Preservative: (ICE) Other _____


(pit sketch-show sample pts.)

Comments: SET UP & BEGIN EXCAVATION — MATERIAL HAS STRONG HYDROCARBON ODOR — ODOR DIMINISHES W/ DEPTH — TERRACE CUT ON NORTH SIDE FOR STABILITY — INSTALL SOIL VEF NM SLOUGHING SOIL LIMITS EXCAVATION — TREAT LANDFARM W/ FERTILIZER & RETURN TO HOLE TO ENHANCE RESIDUAL DEGRADATION IN-SITU —

Soil Shipped to: _____

Prepared by: M. Hunt

ANALYTICAL LABS

Organic Analysis - Pit Closure

Williams Field Services

Project ID:	OCD Pits	Report Date:	11/18/96
Sample ID:	SJ 29-5 #38-32 EX-V-01	Date Sampled:	11/12/96
Lab ID:	5622	Date Received:	11/12/96
Sample Matrix:	Soil	Date Extracted:	11/13/96
Preservative:	Cool	Date Analyzed:	11/15/96
Condition:	Intact		

Target Analyte		Concentration (mg/kg)	Detection Limit (mg/kg)
Total Aromatic Hydrocarbons		**562**	
	Benzene	4.21	3.92
	Toluene	149	3.92
	Ethylbenzene	25.5	3.92
	m,p-Xylenes	317	7.84
	o-Xylene	66.3	3.92
Total Recoverable Petroleum Hydrocarbons		**1,910**	**241**

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	105	81 - 117%
	Bromofluorobenzene	104	74 - 121%

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.

Method 3550 - Sonication Extraction; Test Methods for Evaluating Solid Waste, SW-846, United States Environmental Protection Agency, September, 1986; Method 418.1 - Petroleum Hydrocarbons, Total Recoverable; Chemical Analysis of Water and Waste, United States Environmental Protection Agency, 1978.

Comments:

Review

ANAITAS ENVIRONMENTAL LABS

Organic Analysis - Pit Closure

Williams Field Services

Project ID:	OCD Pits	Report Date:	11/25/96
Sample ID:	SJ 29-5 #38-32 EX-V-01	Date Sampled:	11/12/96
Lab ID:	5622	Date Received:	11/12/96
Sample Matrix:	Soil	Date Extracted:	11/13/96
Preservative:	Cool	Date Analyzed:	11/15/96
Condition:	Intact		

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
Total Aromatic Hydrocarbons	**562**	
Benzene	4.21	3.92
Toluene	149	3.92
Ethylbenzene	25.5	3.92
m,p-Xylenes	317	7.84
o-Xylene	66.3	3.92
Total Recoverable Petroleum Hydrocarbons	**313**	**31.6**

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	105	81 - 117%
	Bromofluorobenzene	104	74 - 121%
	O-Terphenyl	93	50 - 150%

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.

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

ANALYTICAL LABS

Organic Analysis - Pit Closure

Williams Field Services

Project ID:	OCD Pits	Report Date:	11/18/96
Sample ID:	SJ 29-5 #38-32 LF-V-01	Date Sampled:	11/12/96
Lab ID:	5623	Date Received:	11/12/96
Sample Matrix:	Soil	Date Extracted:	11/13/96
Preservative:	Cool	Date Analyzed:	11/15/96
Condition:	Intact		

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
Total Aromatic Hydrocarbons	**73.4**	
Benzene	ND	0.65
Toluene	9.11	0.65
Ethylbenzene	3.56	0.65
m,p-Xylenes	49.5	1.29
o-Xylene	11.2	0.65
Total Recoverable Petroleum Hydrocarbons	**92.8**	**25.2**

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	102	81 - 117%
	Bromofluorobenzene	112	74 - 121%

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.

Method 3550 - Sonication Extraction; Test Methods for Evaluating Solid Waste, SW-846, United States Environmental Protection Agency, September, 1986; Method 418.1 - Petroleum Hydrocarbons, Total Recoverable; Chemical Analysis of Water and Waste, United States Environmental Protection Agency, 1978.

Comments:

Review

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: **REFERENCE #:** 9904322

SENT TO: *WILLIAMS FIELD SERVICE*
295 CHIPETA WAY
SALT LAKE CITY, UTAH 84158
MARK HARVEY
PROJECT: NM PITS

DATE REPORTED: 09/17/99
DATE COLLECTED: 04/06/99
DATE RECEIVED: 04/09/99

Reference Fraction:9904322-09A
Sample ID: SJ29-5 #38-32 @20-22/86228
Sample Date Collected: **04/06/9909:45:00**

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH	SW846-8015	76.1	MG/KG	2	04/17/99	KKL

ND=NONE DETECTED
PQL=PRACTICAL QUANTITAION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY: Terry Koester KLW

TERRY KOESTER
LABORATORY DIRECTOR