

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

125K
OK
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SEP 23 1993
OIL CON. DIV.
DIST. 3

PIT REMEDIATION AND CLOSURE REPORT

Operator: Phillips Petroleum (WFS) Telephone: (801) 584-6361
Address: P.O. Box 58900, Salt Lake City, Utah 84158-0900
WellName: SJ 29-6 UNIT #48-35 (86284)
Location: Unit or Qtr/Qtr Sec A Sec 35 T 29N R 6W County Rio Arriba
PitType Dehydrator
LandType: Fee

Pit Location: Pit dimensions: length 23 ft., width 21 ft., depth 8 ft.
(Attach diagram)

Reference: Wellhead

Footage from reference: 91 ft.

Direction from reference: 47 Degrees East of South

Depth To Ground Water:	Less than 50 feet	(20 points)
(Vertical distance from	50 feet to 99 feet	(10 points)
contaminants to seasonal	Greater than 100 feet	(0 points) <u>10</u>
high water elevation of		
ground water)		

Wellhead Protection Area:	Yes	(20 points)
(Less than 200 feet from a private	No	(0 points) <u>0</u>
domestic water source, or; less than		
1000 feet from all other water sources)		

Distance To Surface Water:	Less than 200 feet	(20 points)
(Horizontal distance to perennial	200 feet to 1,000 feet	(10 points)
lakes, ponds, rivers, streams, creeks,	Greater than 1,000 feet	(0 points) <u>0</u>
irrigation canals and ditches)		

Ranking Score (TOTAL POINTS): 10

Date Remediation Started: 11/19/96

Date Completed: 11/19/96

Remediation Method: Excavation ☒

Approx. Cubic Yard 140

(check all appropriate sections)

Landfarmed ☒Insitu Bioremediation ☐

Other Landfarmed soil after mechanical aeration.

Remediation Location: Onsite ☒ Offsite

(ie. landfarmed onsite, name and location of offsite facility)

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 4/3/99 and utilized hydraulic probe to collect sample at 19-20'. TPH: ND BTEX: ND

Ground Water Encountered: No

Final Pit:

Sample location SJ 29-6 #48-35 V-EX-02

Closure Sampling:

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

(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth Up to 8 feet

Sample date 12/20/96

Sample time 11:30

Sample Result

Benzene (ppm) <0.90

Total BTEX (ppm) 8.12

Field Headspace (ppm)

TPH (ppm) <30.9

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

PRINTED NAME
AND TITLE

MARK HARVEY

SIGNATURE


 For WFS

PROJECT COORDINATOR

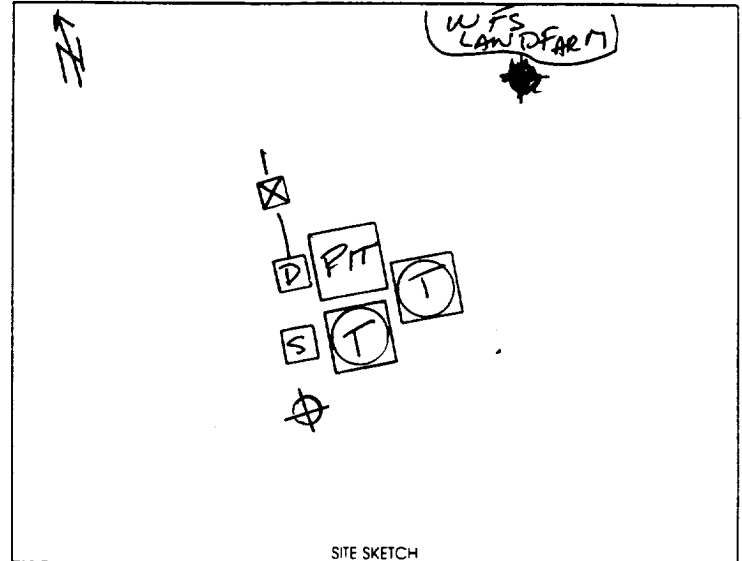
PIT RETIREMENT FORM

Date: 11-19-96 Weather 990'W 950'E
 Well Name SJ 29-6 #48-35 Operator PHILIPS PETROLEUM Sec 35 T29N R6W UL 990'W 950'E
 Land Type: BLM STATE (FEE) INDIAN County RIO ARriba
 One Call Made (505-765-1234)? (Y) N
 Line Marking Evident? (Y) N

Pit Location:

Reference Wellhead X Other _____
 Distance from: 91'
 Direction: 47° Degrees X E N X
 of
W S

Starting Pit Dimensions 10' x 11' x 2'
 Final Pit Dimensions 23' x 21' x 8'



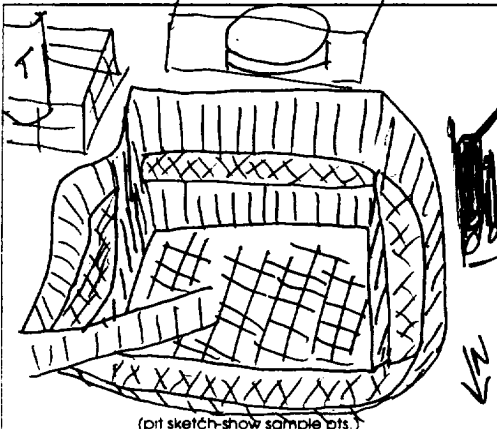
Organic Vapor Readings: Start _____ Soil Description: BROWN SILTY CLAY
 @ 2' _____
 @ 4' _____
 @ 6' _____
 @ 8' _____
 @ _____
 @ _____

Well Proximity To: Residence, Domestic Water Well, Stock Well NONE
 Arroyo, Wash, Lake, Stream ~500' NORTH TO WASH
 Estimated or Known Distance to Ground Water 750' and <100'

Source of Backfill (if other than processed material) _____

Samples collected: Type Progress: Verification: ID SJ 29-6 #48-35 V-EX-01 soil / water
 Progress: Verification: ID SJ 29-6 #48-35 V-LF-01 soil / water
 Progress: Verification: ID _____ soil / water

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



Comments: REMOVED PIT LINER. Setup,
EXCAVATION, SHREDDED SOIL, FERTILIZED SOIL,
PROCESSED SOIL WAS PLACED IN LANDFARM.
LANDFARM MATERIAL WAS USED TO BACK FILL
EXCAVATION AFTER REMEDIATION COMPLETED.
INSTALL SOIL VENT - MONITOR

Soil Shipped to: _____
 Prepared by: [Signature]



Organic Analysis - Pit Closure

Williams Field Services

Project ID: OCD Pits
Sample ID: SJ 29-6 #48-35 V-EX-02
Lab ID: 6045
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 01/01/97
Date Sampled: 12/20/96
Date Received: 12/20/96
Date Extracted: 12/20,24/1996
Date Analyzed: 12/20,24/1996

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
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Total Aromatic Hydrocarbons

8.12

Benzene	ND	0.90
Toluene	ND	0.90
Ethylbenzene	ND	0.90
m,p-Xylenes	6.37	1.81
o-Xylene	1.75	0.90

Total Recoverable Petroleum Hydrocarbons

ND

30.9

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	93	81 - 117%
	Bromofluorobenzene	96	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



Organic Analysis - Pit Closure

Williams Field Services

Project ID: OCD Pits
Sample ID: SJ 29-6 #48-35 V-LF-01
Lab ID: 5846
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 12/09/96
Date Sampled: 12/04/96
Date Received: 12/04/96
Date Extracted: 12/05/96
Date Analyzed: 12/5-6/96

Target Analyte	Concentration (mg/kg)	Detection Limits (mg/kg)
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Total Aromatic Hydrocarbons

4.58

Benzene	ND	0.26
Toluene	0.65	0.26
Ethylbenzene	ND	0.26
m,p-Xylenes	3.09	0.51
o-Xylene	0.83	0.26

Total Recoverable Petroleum Hydrocarbons

ND

28.7

Quality Control:


<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
Trifluorotoluene	106	81 - 117%
Bromofluorobenzene	108	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.

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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 #: 9905122

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

DATE REPORTED: 05/19/99
DATE COLLECTED: 04/29/99
DATE RECEIVED: 05/06/99

PROJECT: NM PITS

Reference Fraction: 9905122-01A
Sample ID: SJ29-6 #48-EX-03 (86284)
Sample Date Collected: 04/29/99 11:55:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYSED BY
TPH	SW846-8015	ND	MG/KG	2	05/10/99 KKL
BTEX	SW846 8021			3.0	
BENZENE		ND	MG/KG	0.050	05/06/99 JDH
TOLUENE		ND	MG/KG	0.050	05/06/99 JDH
ETHYLBENZENE		ND	MG/KG	0.050	05/06/99 JDH
TOTAL XYLENES		ND	MG/KG	0.050	05/06/99 JDH
BFB (SURROGATE)		77	125	75	

ND=NONE DETECTED

PQL=PRACTICAL QUANTITATION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:


PERRY KOESTER
LABORATORY DIRECTOR

PROBE SAMPLE