

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

**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 29-6 UNIT #45 ( 86443 )  
Location: Unit or Qtr/Qtr Sec H Sec 27 T 29N R 6W County Rio Arriba  
PitType Separator  
LandType Fee

Pit Location: Pit dimensions: length 17 ft , width 16 ft., depth 7 ft.  
(Attach diagram)

Reference: Wellhead

Footage from reference: 96 ft.

Direction from reference: 59 Degrees West 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) 0  
high water elevation of  
ground water)

Wellhead Protection Area: Yes (20 points)  
(Less than 200 feet from a private No (0 points) 0  
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) 0  
irrigation canals and ditches)

Ranking Score (TOTAL POINTS): 0

Date Remediation Started: 11/13/96

Date Completed: 12/21/96

Remediation Method: Excavation ☒

Approx. Cubic Yard 70

(check all appropriate sections)

Landfarmed ☒Insitu Bioremediation ☐

Other Stockpiled 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 4/6/99 and utilized hydraulic probe to collect sample at 18-19'. TPH: 223 BTEX: 43.3

Ground Water Encountered: No

Final Pit:

Sample location SJ 29-6 #45-V-EX-02

Closure Sampling:

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

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

Sample depth Up to &amp; feet.

Sample date 12/20/96

Sample time 11:10

Sample Result

Benzene (ppm) &lt;0.73

Total BTEX (ppm) 24.8

Field Headspace (ppm)

TPH (ppm) 470

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 *Mark Harvey* FOR WFSPRINTED NAME  
AND TITLE

MARK HARVEY

PROJECT COORDINATOR

06445  
X

Date: 11/13/96 Weather: \_\_\_\_\_  
Well Name SI 29-6 #45 Operator PHILLIPS PETRO Sec 27 T4N R6W UL <sup>1550' N</sup> ~~740E~~  
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: 9 1/2'

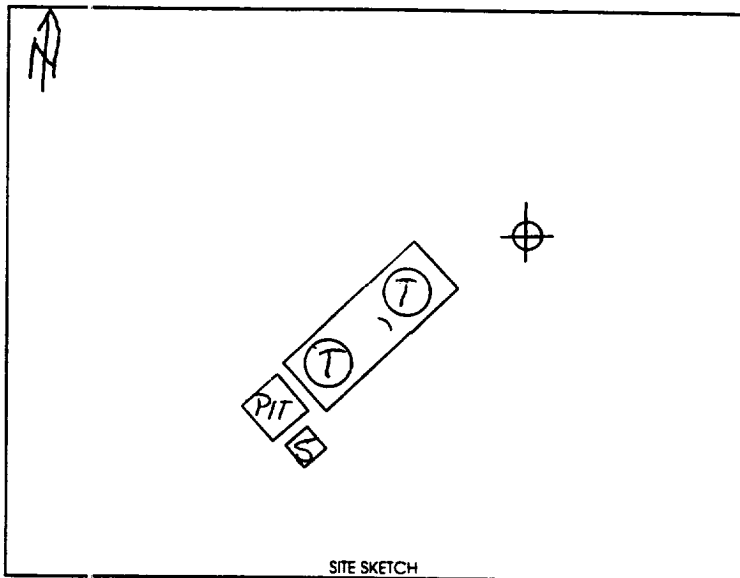
Direction: 57° Degrees      E N     

of

~~X~~ W S ~~X~~

Starting Pit Dimensions 10' x 7' x 2'

Final Pit Dimensions 17' x 16' x 7'



### Organic Vapor Readings:

Start \_\_\_\_\_

**Soil Description:**

BROWN SILTY SAND

@ 2' \_\_\_\_\_

1'                      1'                      1'

@ 4' \_\_\_\_\_

BROWN TO GRAY SAND

@ 6'

" " " SIXTY SEVEN

@ 8' \_\_\_\_\_

@ \_\_\_\_\_

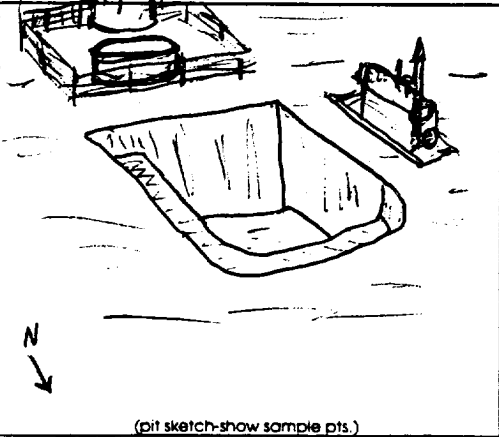
@ \_\_\_\_\_

Well Proximity To: Residence, Domestic Water Well, Stock Well NONE  
Arroyo, Wash, Lake, Stream NONE  
Estimated or Known Distance to Ground Water >100 feet

Source of Backfill (if other than processed material) LANDFARM

Sample collected:	Type	Progress:	Verification:	ID	Soil / water
		Progress:	Verification:	5J29-6 #45-V-EX-02	soil / water
		Progress:	Verification:	5J29-6 #45-V-LF-01	soil / water
		Progress:	Verification:	ID	soil / water

Sample sent to Lab Via: Courier Hand Carried Other \_\_\_\_\_ Preservative: ICE Other \_\_\_\_\_



Comments: SITE IS ~ 1/2 NORTH OF HWY 64 -  
EXCAVATED SOIL, SHREDDED MATERIAL, ADDED  
FERTILIZER, LANDEARNED MATERIAL INSITE.  
BACK FILLED EXCAVATION WITH LANDEARNED  
MATERIAL. INSTALL SOIL VENT.

Soil Shipped to: \_\_\_\_\_  
Prepared by: MARY HARVEY & [Signature]



## Organic Analysis - Pit Closure

### Williams Field Services

Project ID: OCD Pits  
Sample ID: SJ 29-6 #45 V-EX-02  
Lab ID: 6044  
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)
<b>Total Aromatic Hydrocarbons</b>	<b>24.8</b>	
Benzene	ND	0.73
Toluene	ND	0.73
Ethylbenzene	1.01	0.73
m,p-Xylenes	18.7	1.47
o-Xylene	5.16	0.73
<b>Total Recoverable Petroleum Hydrocarbons</b>	<b>470</b>	<b>26.2</b>

<b>Quality Control:</b>	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	83	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

## Organic Analysis - Pit Closure

### Williams Field Services

Project ID:	OCD Pits	Report Date:	12/18/96
Sample ID:	SJ 29-6 #45 V-LF-02	Date Sampled:	12/16/96
Lab ID:	5979	Date Received:	12/16/96
Sample Matrix:	Soil	Date Extracted:	12/17/96
Preservative:	Cool	Date Analyzed:	12/17/96
Condition:	Intact		


Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
<b>Total Aromatic Hydrocarbons</b>	<b>2.65</b>	
Benzene	ND	0.53
Toluene	ND	0.53
Ethylbenzene	ND	0.53
m,p-Xylenes	2.65	1.06
o-Xylene	ND	0.53
<b>Total Recoverable Petroleum Hydrocarbons</b>	<b>ND</b>	<b>24.9</b>

Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	101	81 - 117%
	Bromofluorobenzene	103	74 - 121%

**Reference:** Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics;  
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**Comments:**

  
Review

Q W A L L A B O R A T O R I E S , I N C .

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

LABORATORY REPORT:

REFERENCE #: 9904322

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

DATE REPORTED: 04/19/99  
DATE COLLECTED: 04/06/99  
DATE RECEIVED: 04/09/99

Reference Fraction: 9904322-13A

Sample ID: SJ29-6 #45 @10-11/86443

Sample Matrix: SOIL

Sample Date Collected: 04/06/99 14:40:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	223	MG/KG	20	04/20/99	KKL
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	04/16/99	JDH
TOLUENE		7.84	MG/KG	0.050	04/16/99	JDH
ETHYLBENZENE		1.77	MG/KG	0.050	04/16/99	JDH
TOTAL XYLENES		33.7	MG/KG	0.050	04/16/99	JDH
BFB (SURROGATE)		98	125	75		

ND=NONE DETECTED

DL=DETECTION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

  
TERRY KOESTER  
LABORATORY DIRECTOR

PROBE SAMPLE