

Denny S. Fout

DEPUTY OIL & GAS INSPECTOR

OIL CONSERVATION DIVISION

MAY 04 1998

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

OK

**PIT REMEDIATION AND CLOSURE REPORT**

*Approved*

**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 #85      ( 86531 )

**Location:** Unit or Qtr/Qtr Sec A Sec 27 T 29N R 6W County Rio Arriba

**PitType:** Dehydrator

**LandType:** Fee

**Pit Location:** Pit dimensions: length 13 ft., width 13 ft., depth 6 ft.  
(Attach diagram)

Reference: Wellhead

Footage from reference: 112 ft.

Direction from reference: 50 Degrees West of South

**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)	<u>0</u>

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**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)	<u>0</u>

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DIST. 3

**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)	<u>0</u>

**Ranking Score (TOTAL POINTS):** 0

Date Remediation Started: 11/13/96

Date Completed: 12/21/96

Excavation

Approx. Cubic Yard 50

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, mixed with fertilizer, and placed into an onsite stockpile. After remediation goals were confirmed, the soil was returned to the excavation.

Ground Water Encountered: No

Final Pit: Sample location SJ 29-6 #85-V-EX-01

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

Sample date 11/16/96

Sample time 12:32

Sample Result

Benzene (ppm) <0.51

Total BTEX (ppm) 28.4

Field Headspace (ppm

TPH (ppm) 51.0

Ground Water Sample: No

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

DATE 3/20/97

SIGNATURE *Mark Harvey* For NPS

PRINTED NAME MARK HARVEY AND TITLE PROJECT COORDINATOR

PIT RETIREMENT FORM

Date: 11/13/96

Weather 70° SUNNY

Well Name SJ 29-6 #85 Operator PHILLIPS PETROLEUM Sec 27 T29N R6W UL 890 N 72E

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 \_\_\_\_\_

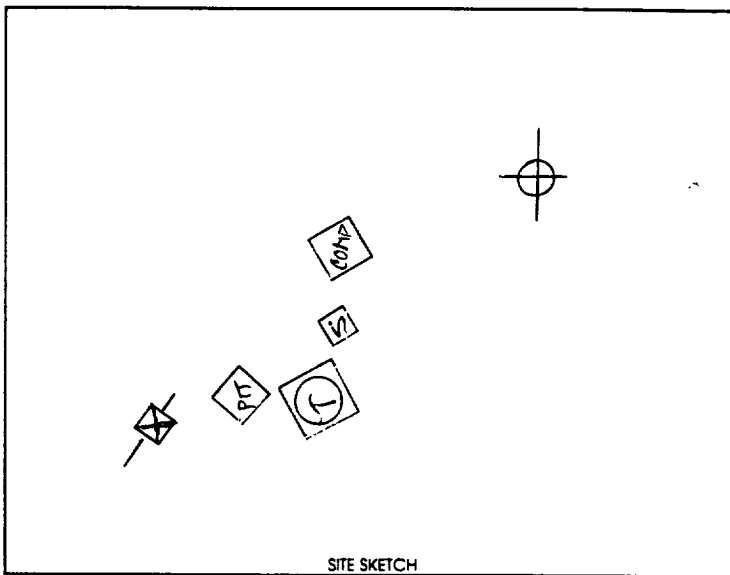
Distance from: 112'

Direction: 50° Degrees \_\_\_\_\_ E \_\_\_\_\_ N \_\_\_\_\_

of X W S X

Starting Pit Dimensions 9' x 8' x 1'

Final Pit Dimensions 13' x 13' x 6'



SITE SKETCH

Organic Vapor Readings: Start \_\_\_\_\_  
@ 2' \_\_\_\_\_  
@ 4' \_\_\_\_\_  
@ 6' \_\_\_\_\_  
@ 8' \_\_\_\_\_  
@ \_\_\_\_\_  
@ \_\_\_\_\_

Soil Description: DARK BROWN CLAY  
SILTY SAND TAN  
" " " "  
" " " w/clay

Well Proximity To: Residence, Domestic Water Well, Stock Well NONE

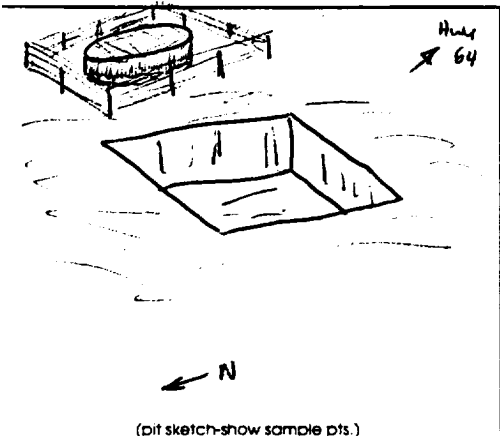
Arroyo, Wash, Lake, Stream NONE (MINOR WASH 200' EAST SE)

Estimated or Known Distance to Ground Water >100 feet

Source of Backfill (if other than processed material) \_\_\_\_\_

Samples collected: Type \_\_\_\_\_ Progress: Verification: ID SJ 29-6 #85-V-EX-01 (soil) water  
Progress: Verification: ID SJ 29-6 #85-V-LF-01 (soil) water  
Progress: Verification: ID \_\_\_\_\_ soil / water

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



Comments: THIS LOCATION ~ 400 YDS NORTH OF 29-6 #45 -  
SET UP + BEGIN EXCAVATING - MINIMAL STABILC + ONLY SLIGHT  
OBOR -

Soil Shipped to: \_\_\_\_\_

Prepared by: \_\_\_\_\_

**Organic Analysis - Pit Closure**

**Williams Field Services**

Project ID:	OCD Pits	Report Date:	11/22/96
Sample ID:	SJ 29-6 #85-V-EX-01	Date Sampled:	11/16/96
Lab ID:	5689	Date Received:	11/18/96
Sample Matrix:	Soil	Date Extracted:	11/19/96
Preservative:	Cool	Date Analyzed:	11/20/96
Condition:	Intact		

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
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<b>Total Aromatic Hydrocarbons</b>	<b>28.4</b>	
Benzene	ND	0.51
Toluene	0.93	0.51
Ethylbenzene	ND	0.51
m,p-Xylenes	21.8	1.02
o-Xylene	5.71	0.51

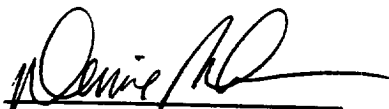
<b>Total Recoverable Petroleum Hydrocarbons</b>	<b>51.0</b>	<b>23.0</b>
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<b>Quality Control:</b>	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	104	81 - 117%
	Bromofluorobenzene	115	74 - 121%

**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 #85 V-LF-02	Date Sampled:	12/16/96
Lab ID:	5978	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>6.42</b>	
Benzene	ND	0.78
Toluene	ND	0.78
Ethylbenzene	ND	0.78
m,p-Xylenes	5.34	1.55
o-Xylene	1.08	0.78
<b>Total Recoverable Petroleum Hydrocarbons</b>	<b>37.9</b>	<b>23.4</b>

<b>Quality Control:</b>	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	96	81 - 117%
	Bromofluorobenzene	97	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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**Comments:**

  
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Review