State of New Mexico
Energy, Minerals and Natural Resources Department

Denny E. Foust
DEPUTY OIL & GAS INSPECTOR

MAY 04 1998

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

OK

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: Burlington Resources (Williams Field Services) **Telephone:** (801) 584-6361

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

WellName: SJ 28-6 UNIT #94A PC (85723)

Location: Unit or Qtr/Qtr Sec P Sec 36 T 28N R 6W County Rio Arriba

PitType: Dehydrator

LandType: Fee

Pit Location: Pit dimensions: length 16 ft., width 16 ft., depth 8 ft.
(Attach diagram)

Reference: Wellhead

Footage from reference: 94 ft.

Direction from reference: 77 Degrees East 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)	20
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	0

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DIST. 3

Ranking Score (TOTAL POINTS): 20

Form A

Date Remediation Started: 12/2/96 **Date Completed:** 12/20/96

Excavation ☑ Approx. Cubic Yard 80

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 landfarm. After remediation goals were confirmed, the soil was returned to the excavation.

Ground Water Encountered: No

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

Sample location SJ 28-6 #94A V-EX-01

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

Sample depth Up to 8 feet.

Sample date 12/5/96 Sample time 16:05

Sample Result

Benzene (ppm) <0.68

Total BTEX (ppm) 8.30

Field Headspace (ppm

TPH (ppm) 61.1

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 M L Harvey FOR WPS PRINTED NAME MARK HARVEY AND TITLE PROJECT COORDINATOR

85723

PIT RETIREMENT FORM

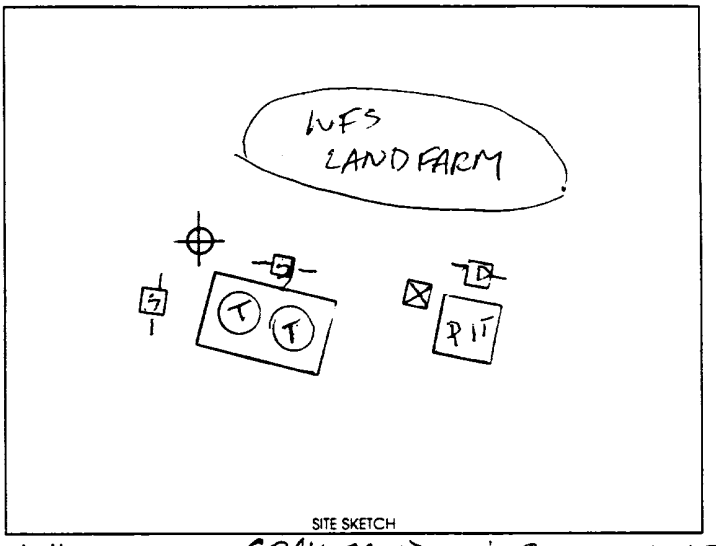
Date: 12/2/96 Weather CLEAR/SUNNY 34°

Well Name SJ 28-6 #94A PC Operator BURLINGTON RESOURCES Sec 36 T 28 R 6W UL 820 S 1180 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: 94 feet

Direction: 77° Degrees X E N ____ of ____ W S 5

Starting Pit Dimensions 10' x 10' x 2'

Final Pit Dimensions 16' x 16' x 8'

Organic Vapor Readings: Start ____ Soil Description: GRAY SAND W SANDSTONE

@ 2' ____ " "

@ 4' ____ " "

@ 6' ____ " "

@ 8' ____ " "

@ ____

@ ____

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

Arroyo, Wash, Lake, Stream MINOR WASH ~ 200 feet NORTH

Estimated or Known Distance to Ground Water <50 feet

Source of Backfill (if other than processed material ____

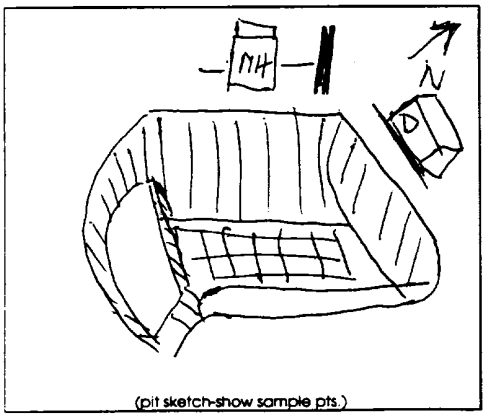
Samples collected: Type

Progress: Verification: ID SJ28-6 #94A V-EX-01 soil / water

Progress: Verification: ID SJ28-6 #94A V-LF-01 soil / water

Progress: Verification: ID ____ soil / water

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



Comments: SET UP, EXCAVATE, SHRED MATERIAL, ADD FERTILIZER, LAND FARM ONSITE.

Soil Shipped to: ____

Prepared by: [signature]

ANAITAS
ENVIRONMENTAL LABS

Organic Analysis - Pit Closure

Williams Field Services

Project ID:	OCD Pits	Report Date:	12/13/96
Sample ID:	SJ 28-6 #94A V-LF-01	Date Sampled:	12/05/96
Lab ID:	5865	Date Received:	12/06/96
Sample Matrix:	Soil	Date Extracted:	12/11/96
Preservative:	Cool	Date Analyzed:	12/11/96
Condition:	Intact		

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
Total Aromatic Hydrocarbons	**35.1**	
Benzene	ND	0.84
Toluene	2.10	0.84
Ethylbenzene	1.55	0.84
m,p-Xylenes	23.4	1.67
o-Xylene	8.01	0.84
Total Recoverable Petroleum Hydrocarbons	**127**	**24.0**

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	101	81 - 117%
	Bromofluorobenzene	114	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

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Organic Analysis - Pit Closure

Williams Field Services

Project ID:	OCD Pits	Report Date:	12/13/96
Sample ID:	SJ 28-6 #94A V-EX-01	Date Sampled:	12/05/96
Lab ID:	5863	Date Received:	12/06/96
Sample Matrix:	Soil	Date Extracted:	12/11/96
Preservative:	Cool	Date Analyzed:	12/11/96
Condition:	Intact		

Target Analyte		Concentration (mg/kg)	Detection Limit (mg/kg)
Total Aromatic Hydrocarbons		**8.30**	
	Benzene	ND	0.68
	Toluene	0.73	0.68
	Ethylbenzene	ND	0.68
	m,p-Xylenes	5.70	1.36
	o-Xylene	1.87	0.68
Total Recoverable Petroleum Hydrocarbons		**61.1**	**23.9**

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	92	81 - 117%
	Bromofluorobenzene	93	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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