Denny E. Foust
DEPUTY OIL & GAS INSPECTOR

MAY 0 4 1998

State of New Mexico
Energy, Minerals and Natural Resources Department

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 27-4 UNIT #4 (71326)

Location: Unit or Qtr/Qtr Sec A Sec 31 T 27N R 4W County Rio Arriba

PitType: Dehydrator

LandType: Forest

Pit Location: Pit dimensions: length 22 ft., width 20 ft., depth 3 ft.
(Attach diagram)

Reference: Wellhead

Footage from reference: 72 ft.

Direction from reference: 9 Degrees East 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	0
	Ranking Score (TOTAL POINTS):		0

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DIST. 3

Form A

Date Remediation Started: 12/13/96 **Date Completed:** 12/20/96

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 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 27-4 #4 V-EX-01

A composite sample, made up of ~~4~~ 3 points from each excavation face, was collected..

Sample depth Up to 3 feet.

Sample date 12/17/96 Sample time 13:56

Sample Result

Benzene (ppm) <1.65

Total BTEX (ppm) 8.67

Field Headspace (ppm

TPH (ppm) 49.2

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 WFS PRINTED NAME AND TITLE MARK HARVEY PROJECT COORDINATOR

Form B

71326

PIT RETIREMENT FORM

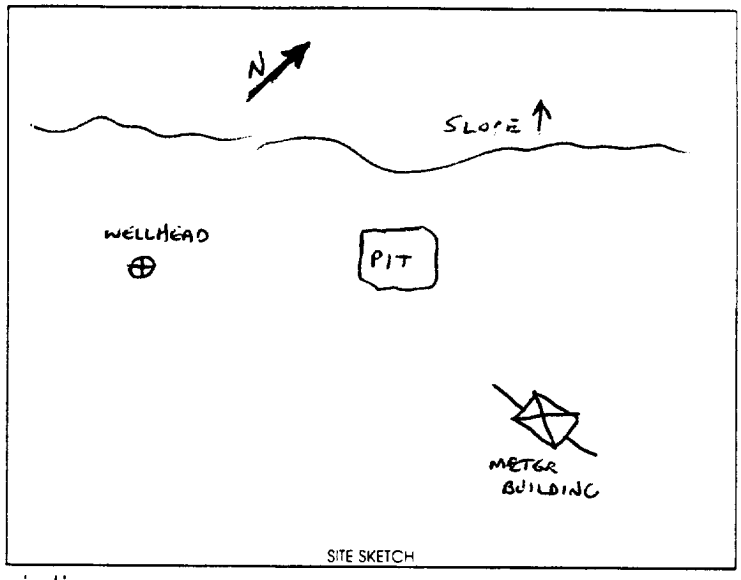
Date: 12/13/96 Weather _____

Well Name SJ 27-4 UNIT #4 Operator BURLINGTON RESOURCES Sec 31 T27N R4W UL 822'N 1090'E

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: 72'

Direction: 9 Degrees X E N X of W S

Starting Pit Dimensions 10' x 10' x 1½'

Final Pit Dimensions 20' x 22' x 3'

Organic Vapor Readings: Start _____ @ 2' _____ @ 4' _____ @ 6' _____ @ 8' _____ @ _____ @ _____

Soil Description: SILTY SAND
" "
FINE GRAINED SANDSTONE

Well Proximity To: Residence, Domestic Water Well, Stock Well ~ 1 MILE

Arroyo, Wash, Lake, Stream _____

Estimated or Known Distance to Ground Water > 100'

Source of Backfill (if other than processed material _____

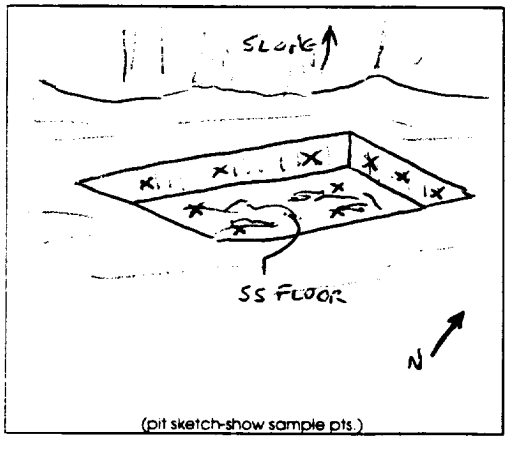
Samples collected: Type

Progress: Verification: ID SJ 27-4 #4-V-EX01 (soil) / water

Progress: Verification: ID SJ 27-4 #4-V-LF01 (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: PIT IS ~ 40 - 60' HIGHER ELEVATION THAN SJ 27-4 #50 + 23 — (MAY BE LISTED IN ERROR) — EXCAVATE TO 3' WHERE BEDROCK ENCOUNTERED — SHRED SILTY SAND/CLAY & MIX IN FERTILIZER — LITTLE STAINING — SAMPLE W/ 3 PT COMPOSITES FROM EACH SIDEWALL DUE TO DEPTH OF EXCAVATION —

Soil Shipped to: _____

Prepared by: M. Hanes

Organic Analysis - Pit Closure

Williams Field Services

Project ID:	OCD Pits	Report Date:	12/18/96
Sample ID:	SJ 27-4 #4 V-EX-01	Date Sampled:	12/17/96
Lab ID:	5996	Date Received:	12/17/96
Sample Matrix:	Soil	Date Extracted:	12/18/96
Preservative:	Cool	Date Analyzed:	12/18/96
Condition:	Intact		

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
Total Aromatic Hydrocarbons	**8.67**	
Benzene	ND	1.65
Toluene	ND	1.65
Ethylbenzene	ND	1.65
m,p-Xylenes	6.81	3.30
o-Xylene	1.86	1.65
Total Recoverable Petroleum Hydrocarbons	**49.2**	**23.7**

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	98	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	Report Date:	12/18/96
Sample ID:	SJ 27-4 #4 V-LF-01	Date Sampled:	12/17/96
Lab ID:	6000	Date Received:	12/17/96
Sample Matrix:	Soil	Date Extracted:	12/18/96
Preservative:	Cool	Date Analyzed:	12/18/96
Condition:	Intact		

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
Total Aromatic Hydrocarbons	**ND**	
Benzene	ND	1.72
Toluene	ND	1.72
Ethylbenzene	ND	1.72
m,p-Xylenes	ND	3.44
o-Xylene	ND	1.72
Total Recoverable Petroleum Hydrocarbons	**64.1**	**24.5**

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	95	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.

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Comments:

Review