State of New Mexico
Energy, Minerals and Natural Resources Department

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

MAR 2002
RECEIVED
OIL CON. DIV.
DIST. 3

PIT REMEDIATION AND CLOSURE REPORT

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

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

WellName: SJ 27-5 UNIT #119 (86640)

Location: Unit or Qtr/Qtr Sec NE/SW Sec 24 T 27N R 5W County Rio Arriba

PitType Dehydrator

LandType: BLM

Pit Location: Pit dimensions: length 27 ft., width 24 ft., depth 15 ft.
(Attach diagram)

Reference: Wellhead

Footage from reference: 68 ft.

Direction from reference: 87 Degrees West 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 points) Greater than 1,000 feet (0 points)	0
	Ranking Score (TOTAL POINTS):	0

Date Remediation Started: 12/12/96 Date Completed:

Remediation Method: (check all appropriate sections) Excavation ☑ Approx. Cubic Yard 360

Landfarmed ☑ Insitu Bioremediation ☐

Other Soil venting

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite ☑ Offsite

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. Add fertilizer to landfarmed soil. Leave excavation open to facilitate soil venting. Return-probe to 30'

Ground Water Encountered: No

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

Sample location SJ27-5#119-VE-SB-01 (29-30)

Advance soil probe to 30' to determine vertical extent.

Sample depth 30'

Sample date 7/27/00 Sample time 14:28

Sample Result

Benzene (ppm) ND

Total BTEX (ppm) 30.4

Field Headspace (ppm) 0

TPH (ppm) 185

Ground Water Sample: No

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

DATE 12-28-01

SIGNATURE [signature]

PRINTED NAME AND TITLE Mark Harvey for Williams Field Services Proj. Coord.

PIT RETIREMENT FORM

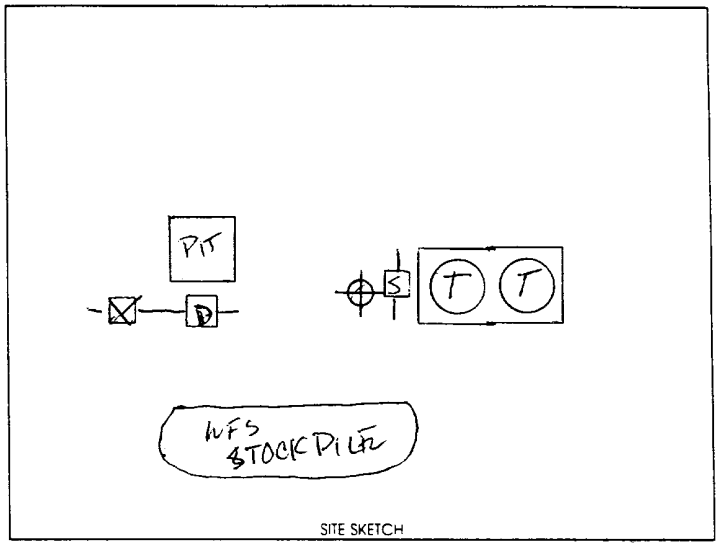
Date: 12/12/96 Weather CLEAR 40°

Well Name SJ 27-5 #119 Operator BURLINGTON RESOURCES Sec 24 T27N R5W UL 1840'S 650'W

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: 68 feet

Direction: 87° Degrees E N X of X W S

Starting Pit Dimensions 8 x 8 x 2

Final Pit Dimensions 27 x 24 x 15

Organic Vapor Readings: Start

@ 2'

@ 4'

@ 6'

@ 8'

@ 12'

@ 15'

Soil Description: LT BROWN TO GRAY SILTY SAND

" "

" "

" "

" "

" "

" "

Well Proximity To: Residence, Domestic Water Well, Stock Well

Arroyo, Wash, Lake, Stream

Estimated or Known Distance to Ground Water >100 feet

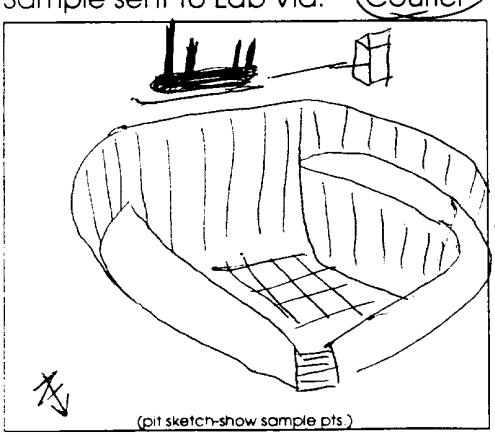
Source of Backfill (if other than processed material

Samples collected: Type Progress: Verification: ID soil / water

Progress: Verification: ID 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: EXCAVATE HEATED HYDROCARBON IMPACTED SOILS — PLACE SOIL IN ON-SITE LF — SOIL HAD STRONG ODOR — MIX IN FERTILIZER — LEAVE EXCAVATION OPEN TO FACILITATE SOIL VENTING — BACKFILL — RETURN TO SITE & SOIL PROBE TO DETERMINE VE, @ 30'

Soil Shipped to: ON-SITE LF

Prepared by: MH

QWAL LABORATORIES, INC.

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

LABORATORY REPORT: **REFERENCE #:** 0008010

SENT TO: ***WILLIAMS GAS PIPELINE***
PO BOX 215
BLOOMFIELD, NM 87413
JIM STRUHS
PROJECT: WFS/NM PITS

DATE REPORTED: 08/15/00
DATE COLLECTED: **07/27/00**
DATE RECEIVED: **08/01/00**

Reference Fraction:0008010-05A
Sample ID: SJ27-5#119-VE-SB-01(29-30
Sample Date Collected: **07/27/0014:28:00**

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO	SW846-8015D	185	MG/KG	2	08/08/00	BEM

ND=NONE DETECTED
PQL=PRACTICAL QUANTITAION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY:

TERRY KOESTER
LABORATORY DIRECTOR

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

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DATE REPORTED: 08/15/00
DATE COLLECTED: **07/27/00**
DATE RECEIVED: **08/01/00**

Reference Fraction:0008010-05B
Sample ID: SJ27-5#119-VESB-01(29-30
Sample Date Collected: **07/27/0014:28:00**

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	MG/KG	0.050	08/07/00	MB
TOLUENE		ND	MG/KG	0.050	08/07/00	MB
ETHYLBENZENE		ND	MG/KG	0.050	08/07/00	MB
TOTAL XYLENES		30.4	MG/KG	0.050	08/07/00	MB
BFB (SURROGATE)		96	125	75		

ND=NONE DETECTED
PQL=PRACTICAL QUANTITAION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY: _____

TERRY KOESTER
LABORATORY DIRECTOR

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Mark Harvey*	Date:	19-Jun-97
Company:	*Williams Field Services*	COC No.:	*OS0001*
Address:	*295 Chipeta Way*	Sample No.:	*14911*
City, State:	*Salt Lake City, UT 84158*	Job No.:	*2-1000*

Project Name:	***OCD 96 Pit Project*** 86640			
Project Location:	***SJ 27-5 #119-V-LF-03***			
Sampled by:	AH	Date:	11-Jun-97 Time:	15:00
Analyzed by:	DC/HR	Date:	17-Jun-97	
Sample Matrix:	*Soil*			

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Diesel Range Organics (C10 - C28)	361	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Diesel Range (C10 - C28)	ND	ppm	200	197	1.7	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Diesel Range (C10-C28)	86	104	(70-130)	10	20%

Method - *SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by:
Date: 6/19/97

ANAITAS
ENVIRONMENTAL LABS

Organic Analysis - Pit Closure

Williams Field Services

Project ID:	OCD Pits	Report Date:	12/18/96
Sample ID:	SJ 27-5 #119 V-EX-01	Date Sampled:	12/17/96
Lab ID:	5890	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	**326**	
Benzene	2.90	0.57
Toluene	81.9	5.71
Ethylbenzene	15.6	0.57
m,p-Xylenes	185	11.4
o-Xylene	40.9	5.71
Total Recoverable Petroleum Hydrocarbons	**2,950**	**309**

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	91	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