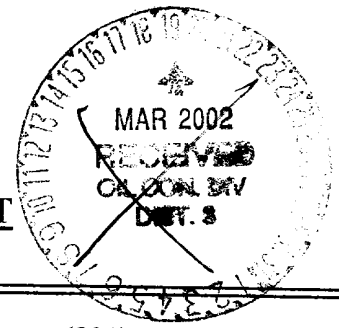


Qual sheets
poor copies
No OVM on
Land forms

State of New Mexico
Cultural and Natural Resources Department

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



PIT REMEDIATION AND CLOSURE REPORT

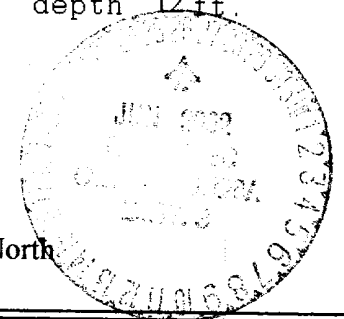
Operator: Burlington Resources (Williams Field Services) Telephone: (801) 584-6361
Address: P.O. Box 58900, Salt Lake City, Utah 84158-0900
WellName: SJ 27-5 UNIT #118E (85902)
Location: Unit or Qtr/Qtr Sec ^{SW/SE} Sec 22 T 27N R 5W County Rio Arriba
PitType Dehydrator 0-22-27N-05W
LandType: BLM

Pit Location: Pit dimensions: length 23 ft., width 21 ft., depth 12 ft.
(Attach diagram)

Reference: Wellhead

Footage from reference: 92 ft.

Direction from reference: 34 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 points)
Greater than 1,000 feet (0 points) 0

Ranking Score (TOTAL POINTS): 0

Date Remediation Started: 12/7/96

Date Completed:

Remediation Method: Excavation ☒

Approx. Cubic Yard 215

(check all appropriate sections)

Landfarmed ☒

Insitu Bioremediation ☐

Other

Soil venting

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. Leave excavation open to facilitate soil venting. Return to site to measure effectiveness of soil venting.

Ground Water Encountered: No

Final Pit:

Sample location SJ 27-5 #118E-VE-SB-01 (14-15)

Closure Sampling:

Advance soil probe to 15' to determine vertical extent of contamination.

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

Sample depth 15'

Sample date 7/26/00

Sample time 17:02

Sample Result

Benzene (ppm) 0.15

Total BTEX (ppm) 0.24

Field Headspace (ppm) 0

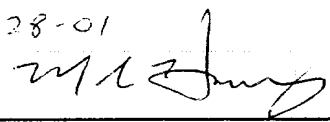
TPH (ppm) ND

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



PRINTED NAME
AND TITLE

Mark Harvey for Williams Field Services
Project Coord.

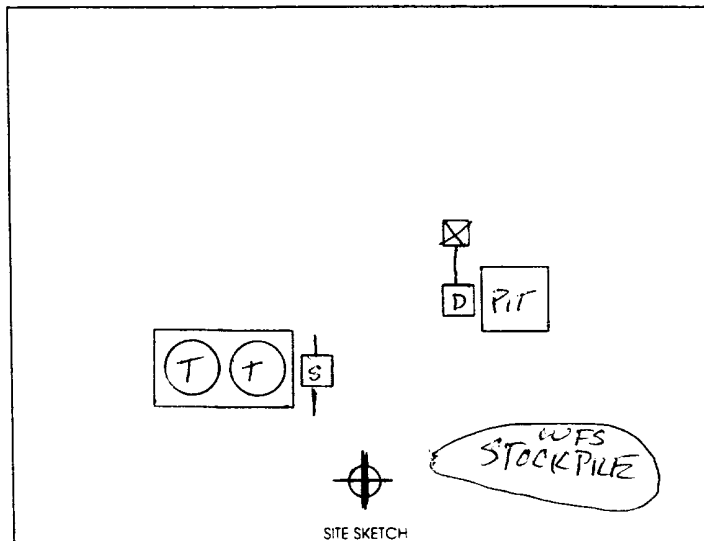
PIT RETIREMENT FORM

Date: 12/7/96 Weather SUNNY 40°
 Well Name ST 27-5 #118E Operator BURLINGTON RESOURCES Sec 22 T 27N R 5W UL 880'S 940'E
 Land Type: BLM STATE FEE INDIAN County PIC APIBA
 One Call Made (505-765-1234)? Y N
 Line Marking Evident? Y N

Pit Location:

Reference Wellhead X Other _____
 Distance from: 92-foot
 Direction: 34° Degrees X E N X
 of _____
 _____ W S _____

Starting Pit Dimensions 10 x 10 x 2
 Final Pit Dimensions 23 x 21 x 12



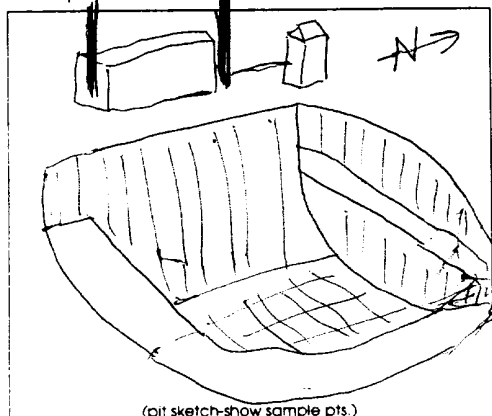
Organic Vapor Readings: Start _____ Soil Description: BROWN TO GRAY SANDY SILT
 @ 2' _____
 @ 4' _____
 @ 6' _____
 @ 8' _____
 @ 10' _____
 @ 12' _____

Well Proximity To: Residence, Domestic Water Well, Stock Well _____
 Arroyo, Wash, Lake, Stream _____
 Estimated or Known Distance to Ground Water _____

Source of Backfill (if other than processed material) _____

Samples collected: Type Progress: Verification: ID ST 27-5 #118E-V-EX-01 soil / water
 Progress: Verification: ID ST 27-5 #118E-V-LF-01, 02, 03 soil / water
 Progress: Verification: ID _____ soil / water

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



Comments: EXCAVATE + SHRED SOIL - PLACE IN ON-SITE LANDFARM
LEAVE EXCAVATION OPEN TO FACILITATE SOIL VENTILATION - BACKFILL
EXCAVATION - RETURN TO SITE + SOIL PROBE TO 15' TO DETERMINE
VERTICAL EXTENT - OK

Soil Shipped to: ON-SITE LF
 Prepared by: MH

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 #: 0008010

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

DATE REPORTED: 08/15/00
DATE COLLECTED: 07/26/00
DATE RECEIVED: 08/01/00

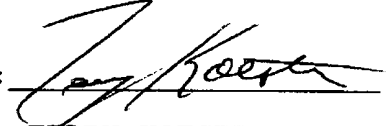
Reference Fraction:0008010-04A
Sample ID: SJ27-5#118E-VE-SB-01(14-15
Sample Date Collected: 07/26/0017:02:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO	SW846-8015D	ND	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.

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

LABORATORY REPORT:

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

DATE REPORTED: 08/15/00
 DATE COLLECTED: 07/26/00
 DATE RECEIVED: 08/01/00

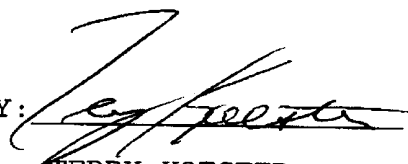
Reference Fraction:0008010-04B
 Sample ID: SJ27-5#118E-VESB-01(14-15
 Sample Date Collected: 07/26/0017:02:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		0.147	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		0.092	MG/KG	0.050	08/07/00	MB
BFB (SURROGATE)		88	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



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **Mark Harvey**
Company: **Williams Field Services**
Address: **295 Chipeta Way**
City, State: **Salt Lake City, UT 84158**

Date: **19-Jun-97**
COC No.: **OS0001**
Sample No.: **14913**
Job No.: **2-1000**

Project Name: **OCD 96 Pit Project**
Project Location: **SJ 27-5 #118E-V-LF-03** 85902
Sampled by: **AH** Date: **11-Jun-97** Time: **15:30**
Analyzed by: **DC/HR** Date: **17-Jun-97**
Sample Matrix: **Soil**

OVM: 0

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Diesel Range Organics (C10 - C28)	8	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**

P.O. BOX 2606 • FARMINGTON, NM 87499

Organic Analysis - Pit Closure**Williams Field Services**

Project ID: OCD Pits
Sample ID: SJ 27-5 #118E V-EX-01
Lab ID: 5988
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 12/18/96
Date Sampled: 12/17/96
Date Received: 12/17/96
Date Extracted: 12/18/96
Date Analyzed: 12/18/96

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
Total Aromatic Hydrocarbons	983	
Benzene	27.1	14.0
Toluene	322	14.0
Ethylbenzene	42.4	14.0
m,p-Xylenes	488	27.9
o-Xylene	104	14.0
Total Recoverable Petroleum Hydrocarbons	3,090	274

Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	98	81 - 117%
	Bromofluorobenzene	100	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