

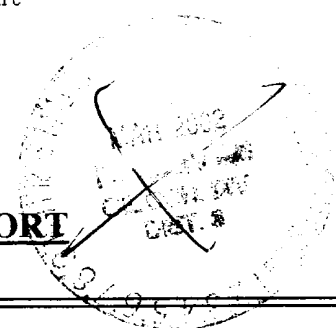
*Burlington Resources
analysis. Owl Lab
and pit retirement
fence*

OIL CONSERVATION DIVISION

P.O. Box 2088
Albuquerque, New Mexico 87504-2088

PIT REMEDIATION AND CLOSURE REPORT

OK DJT



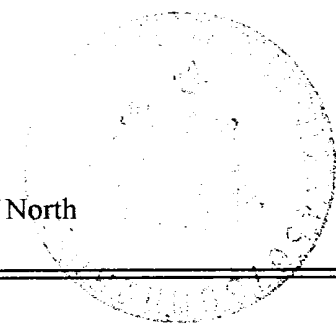
Operator: Burlington Resources (Williams Field Services) Telephone: (801) 584-6361
Address: P.O. Box 58900, Salt Lake City, Utah 84158-0900
WellName: SJ 28-6 UNIT #93 (74979)
Location: Unit or Qtr/Qtr Sec Sec 36 T 28N R 6W County Rio Arriba
PitType Dehydrator *M*
LandType: BLM

Pit Location: Pit dimensions: length 22 ft., width 22 ft., depth 11 ft.
(Attach diagram)

Reference: Wellhead

Footage from reference: 17 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) 10

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): 10

Date Remediation Started: 12/3/96

Date Completed:

Remediation Method: Excavation ☒

Approx. Cubic Yard 200

(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. Excavation left open to facilitate soil venting. Return to site to determine vertical extent.

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 #93 PM-VE-SB-01 (18-19)

Advance soil boring to 19' and collect discrete sample to determine vertical extent.

Sample depth 19'

Sample date 7/25/00

Sample time 16:15

Sample Result

Benzene (ppm)

Total BTEX (ppm)

Field Headspace (ppm) 45

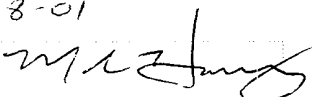
TPH (ppm) 732

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: 12/3/16

Weather

Well Name SJ28-6 #93 PH Operator BURINGTON RESOURCES Sec 36 T28N R6W UL 9903 1096W

Land Type: BLM STATE FEE INDIAN

County

One Call Made (505-765-1234)? Y N

Line Marking Evident? Y N

Pit Location:

Reference Wellhead X Other

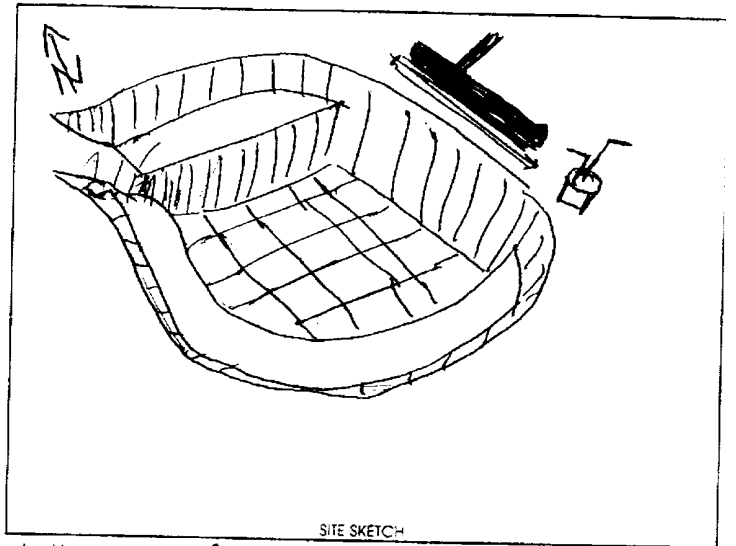
Distance from: 17'

Direction: 87° Degrees E N X

of X W S

Starting Pit Dimensions 16 x 17 x 2

Final Pit Dimensions 22 x 22 x 10 1/2



SITE SKETCH

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

Soil Description: GRAY SAND
11 11
11 11

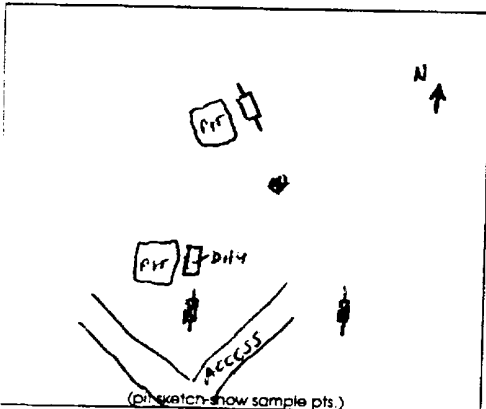
Well Proximity To: Residence, Domestic Water Well, Stock Well NONE
 Arroyo, Wash, Lake, Stream MUNOZ MAASH ~ 200 feet South
 Estimated or Known Distance to Ground Water >50

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 & LANDFARM H2O/CLAYED IMPACTED
SOIL - LEAVE CREATION OPEN UNTIL LANDFARM CLEAN IN
JUNE '17 - RETURN TO SITE TO DETERMINE VE OF CONTAMINATION

Soil Shipped to:

Prepared by: mtt

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

DATE REPORTED: 08/15/00
DATE COLLECTED: 07/25/00
DATE RECEIVED: 08/01/00

PROJECT: WFS/NM PITS

Reference Fraction:0008010-01A

Sample ID: SJ28-6#93PM-VE-SB-01(18-19

Sample Matrix: SOIL

Sample Date Collected: 07/25/0016:15:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO	SW846-8015D	732	MG/KG	2	08/08/00	BEM

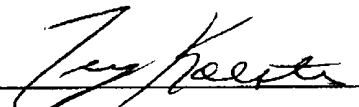
ND=NONE DETECTED

PQL=PRACTICAL QUANTITAION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:



TERRY KOESTER
LABORATORY DIRECTOR

Organic Analysis - Pit Closure

Williams Field Services

Project ID:	OCD Pits	Report Date:	12/13/96
Sample ID:	SJ 28-6 #93 PM V-EX-01	Date Sampled:	12/05/96
Lab ID:	5859	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)
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Total Aromatic Hydrocarbons	150	
Benzene	ND	0.76
Toluene	27.9	7.62
Ethylbenzene	10.1	0.76
m,p-Xylenes	87.3	15.2
o-Xylene	24.4	7.62

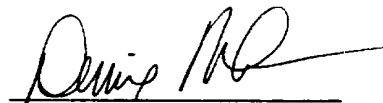
Total Recoverable Petroleum Hydrocarbons	1,200	116
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Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	113	81 - 117%
	Bromofluorobenzene	110	74 - 121%

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

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.: **14916**
Job No.: **2-1000**

Project Name: **OCD 96 Pit Project**
Project Location: **SJ 28-6 #93 PC-V-LF-03**
Sampled by: **AH**
Analyzed by: **DC/HR**
Sample Matrix: **Soil**

Date: **11-Jun-97** Time: **16:55**
Date: **17-Jun-97**

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	85	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
<i>Diesel Range (C10 - C28)</i>	ND	ppm	200	197	1.7	15%

Matrix Spike

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

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

Approved by:

Date:

[Signature]
6/19/97

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -