State of New Mexico
Energy, Minerals and Natural Resources Department

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

RECEIVED
SEP 23 1999
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 28-6 UNIT #59A (85205)

Location: Unit or Qtr/Qtr Sec F Sec 14 T 28N R 6W County Rio Arriba

PitType Dehydrator

LandType: BLM

Pit Location: Pit dimensions: length 20 ft., width 19 ft., depth 7 ft.
(Attach diagram)

Reference: Wellhead

Footage from reference: 52 ft.

Direction from reference: 86 Degrees West 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)	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

Form A

(85205)

Date Remediation Started: 11/20/96 Date Completed: 12/20/96

Remediation Method: (check all appropriate sections)
Excavation ☑ Approx. Cubic Yard 100
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 and placed into an onsite landfarm. Returned to site on 4/3/99 and used hydraulic probe to collect sample at 19' - 20'. TPH: ND BTEX: ND

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 #59A V-EX-01

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

Sample depth Up to 7 feet.

Sample date 12/4/96 Sample time 11:45

Sample Result

Benzene (ppm) <0.36

Total BTEX (ppm) 18.2

Field Headspace (ppm)

TPH (ppm) 137

Ground Water Sample: No

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

DATE 9-20-99

SIGNATURE MH FOR WFS

PRINTED NAME AND TITLE MARK HARVEY PROJECT COORDINATOR

Form B

85205

PIT RETIREMENT FORM

Date: 11/20/96 Weather SUNNY/CLEAR/30°

Well Name SJ 28-6 #59A Operator BURLINGTON RESOURCES Sec 14 T 28N R 6W UL 1850'N 1844'W

Land Type: (BLM) STATE FEE INDIAN County RIO ARRIBA,

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

Line Marking Evident? (Y) N

Pit Location:

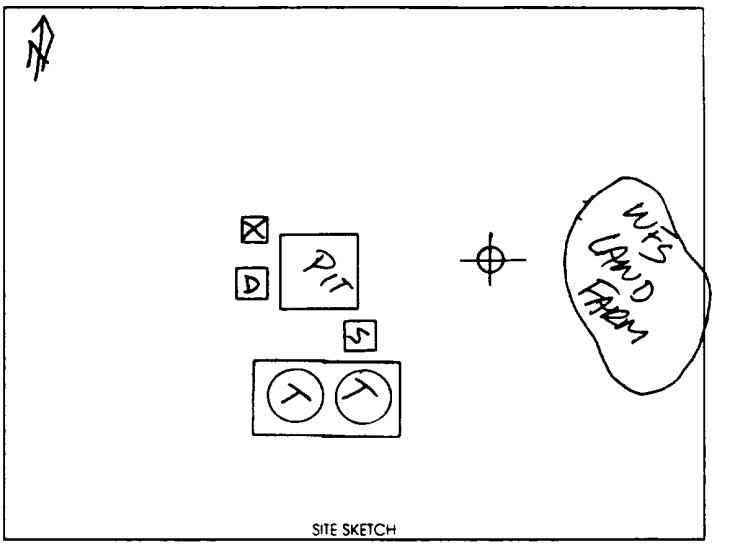
Reference Wellhead X Other

Distance from: 52'

Direction: 86° Degrees ___ E N ___ of X W S X

Starting Pit Dimensions 13' x 13' x 0'

Final Pit Dimensions 20' x 15' x 7'



SITE SKETCH

Organic Vapor Readings: Start ___ Soil Description: DARK GRAY SILTY CLAY

@ 2' ___ " " " "

@ 4' ___ " " " "

@ 6' ___

@ 8' ___

@ ___

@ ___

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

Arroyo, Wash, Lake, Stream NONE

Estimated or Known Distance to Ground Water >100 feet

Source of Backfill (if other than processed material ___

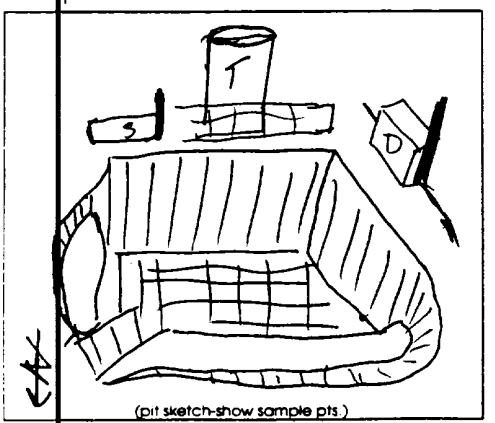
Samples collected: Type

Progress: Verification: ID SJ 28-6 #59A V-EX-01 (soil) / water

Progress: Verification: ID SJ 28-6 #59A V-LF-01 (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: SET UP, EXCAVATE SOIL, SHRED SOIL W/ FERTILIZER ADDED, LAND FARMED PROCESSED SOIL ONSITE AFTER REMEDIATION CONFIRMED, LANDFARM MATERIAL USED TO BACKFILL EXCAVATION. INSTALL SOIL VENT —

Soil Shipped to: ___

Prepared by: [signature]

ANAITAS
ENVIRONMENTAL LABS

Organic Analysis - Pit Closure

Williams Field Services

Project ID:	OCD Pits	Report Date:	12/09/96
Sample ID:	SJ 28-6 #59A V-EX-01	Date Sampled:	12/04/96
Lab ID:	5848	Date Received:	12/04/96
Sample Matrix:	Soil	Date Extracted:	12/05/96
Preservative:	Cool	Date Analyzed:	12/5-6/96
Condition:	Intact		

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
Total Aromatic Hydrocarbons	**18.2**	
Benzene	ND	0.36
Toluene	3.15	0.36
Ethylbenzene	0.85	0.36
m,p-Xylenes	11.6	0.72
o-Xylene	2.66	0.36
Total Recoverable Petroleum Hydrocarbons	**137**	**29.5**

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	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

ANAITAS
ENVIRONMENTAL LABS

Organic Analysis - Pit Closure

Williams Field Services

Project ID:	OCD Pits	Report Date:	12/09/96
Sample ID:	SJ 28-6 #59A V-LF-01	Date Sampled:	12/04/96
Lab ID:	5849	Date Received:	12/04/96
Sample Matrix:	Soil	Date Extracted:	12/05/96
Preservative:	Cool	Date Analyzed:	12/5-6/96
Condition:	Intact		

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
Total Aromatic Hydrocarbons	**4.31**	
Benzene	ND	0.25
Toluene	ND	0.25
Ethylbenzene	ND	0.25
m,p-Xylenes	3.12	0.50
o-Xylene	1.20	0.25
Total Recoverable Petroleum Hydrocarbons	**574**	**31.0**

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	95	81 - 117%
	Bromofluorobenzene	99	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

QWAL LABORATORIES, INC.

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

LABORATORY REPORT: **REFERENCE #:** 9904322

SENT TO: *WILLIAMS FIELD SERVICE*
295 CHIPETA WAY
SALT LAKE CITY, UTAH 84158
MARK HARVEY
PROJECT: NM PITS

DATE REPORTED: 04/19/99
DATE COLLECTED: 04/03/99
DATE RECEIVED: 04/09/99

Reference Fraction:9904322-01A
Sample ID: SJ28-6 #59A @19-20/85205
Sample Matrix: SOIL
Sample Date Collected: 04/03/9908:20:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	ND	MG/KG	2	04/16/99	KKL
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	04/15/99	JDH
TOLUENE		ND	MG/KG	0.050	04/15/99	JDH
ETHYLBENZENE		ND	MG/KG	0.050	04/15/99	JDH
TOTAL XYLENES		ND	MG/KG	0.050	04/15/99	JDH
BFB (SURROGATE)		87	125	75		

ND=NONE DETECTED
DL=DETECTION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY: _____
TERRY KOESTER
LABORATORY DIRECTOR