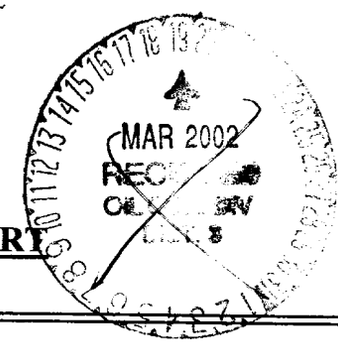
QWAL sheets

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL 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 #80 (73528)

Location: Unit or Qtr/Qtr Sec SE/SE Sec 22 T 27N R 5W County Rio Arriba

PitType Dehydrator P

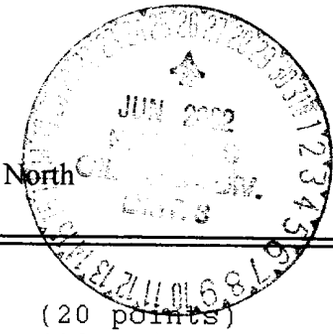
LandType: BLM

Pit Location: Pit dimensions: length 20 ft., width 24 ft., depth 11 ft.
(Attach diagram)

Reference: Wellhead

Footage from reference: 72 ft.

Direction from reference: 71 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: 12/7/96 Date Completed:

Remediation Method: (check all appropriate sections) Excavation ☑ Approx. Cubic Yard 196

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. Leave excavation open to facilitate soil venting.

Ground Water Encountered: No

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

Sample location SJ 27-5 #80VE-SB-01 (19-20)

Advance soil probe to 20' to determine vertical extent.

Sample depth 20'

Sample date 7/26/00 Sample time 14:23

Sample Result

Benzene (ppm) ND

Total BTEX (ppm) 0.28

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

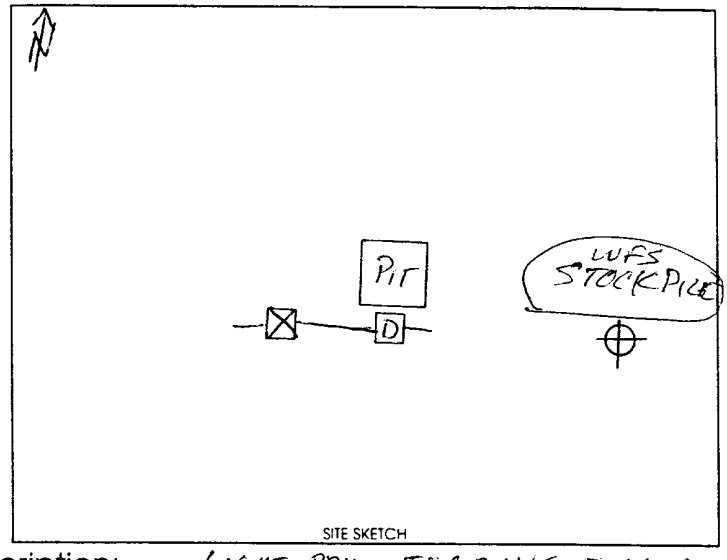
Date: 12/7/96 Weather SUNNY/COLD ~30°

Well Name SJ 27-5 #80 Operator BURLINGTON RESOURCES Sec 22 T 27N R 5W UL 1180'S 890'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 feet

Direction: 71° Degrees E N X of X W S

Starting Pit Dimensions 12 x 12 x 2

Final Pit Dimensions 24 x 20 x 11

Organic Vapor Readings: Start

@ 2'

@ 4'

@ 6'

@ 8'

@ 11'

@

Soil Description: LIGHT BROWN TO GRAY SILTY SAND

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

Arroyo, Wash, Lake, Stream >1000'

Estimated or Known Distance to Ground Water >100'

Source of Backfill (if other than processed material

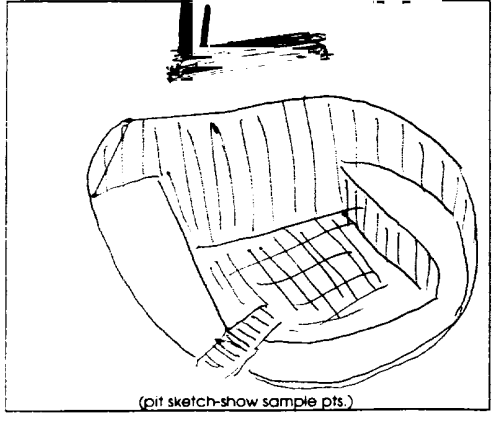
Samples collected: Type

Progress: Verification: ID soil / water

Progress: Verification: ID 27-5-#80-LF-V-02 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 IMPACTED SOIL — PLACE IN LANDFARM/STOCKPILE DUE TO SPACE LIMITATIONS — EXCAVATION LEFT OPEN TO FACILITATE SOIL VENTING — BACKFILL AFTER LF OK — RETURN TO SITE TO DETERMINE VERTICAL EXTENT TO: 20'

Soil Shipped to:

Prepared by:

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 TO: ***WILLIAMS GAS PIPELINE***
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:0008010-03A
Sample ID: SJ27-5#80VE-SB-01(19-20)
Sample Date Collected: **07/26/0014:23:00**

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

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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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:0008010-03B
Sample ID: SJ27-5#80VESB-01(19-20)
Sample Date Collected: **07/26/0014:23:00**

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		0.153	MG/KG	0.050	08/07/00	MB
ETHYLBENZENE		ND	MG/KG	0.050	08/07/00	MB
TOTAL XYLENES		0.126	MG/KG	0.050	08/07/00	MB
BFB (SURROGATE)		83	125	75		

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

APPROVED BY:

TERRY KOESTER
LABORATORY DIRECTOR

ANAITAS ENVIRONMENTAL LABS

Organic Analysis - Pit Closure

Williams Field Services

Project ID:	OCD Pits	Report Date:	12/16/96
Sample ID:	SJ 27-5 #80 V-EX-01	Date Sampled:	12/09/96
Lab ID:	5908	Date Received:	12/09/96
Sample Matrix:	Soil	Date Extracted:	12/12/96
Preservative:	Cool	Date Analyzed:	12/13/96
Condition:	Intact		

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
Total Aromatic Hydrocarbons	**182**	
Benzene	2.14	0.50
Toluene	40.6	5.01
Ethylbenzene	8.30	1.00
m,p-Xylenes	105	5.01
o-Xylene	25.9	5.01
Total Recoverable Petroleum Hydrocarbons	**1,050**	**55.4**

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	118	81 - 117%
	Bromofluorobenzene	129	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 LAB

Organic Analysis - Pit Closure

Williams Field Services, Inc.

Project ID:	CR2 Pits	Report Date:	02/27/97
Sample ID:	27-5 #80 LF-V-02	Date Sampled:	02/14/97
Lab ID:	6238	Date Received:	02/14/97
Sample Matrix:	Soil	Date Extracted:	02/17/97
Preservative:	Cool	Date Analyzed:	02/18/97
Condition:	Intact		

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
Total Aromatic Hydrocarbons	**40.6**	
Benzene	ND	1.60
Toluene	4.74	1.60
Ethylbenzene	ND	1.60
m,p-Xylenes	27.5	3.19
o-Xylene	8.42	1.60
Total Recoverable Petroleum Hydrocarbons	**205**	**26.2**

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	107	81 - 117%
Bromofluorobenzene	108	74 - 121%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Recoverable 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