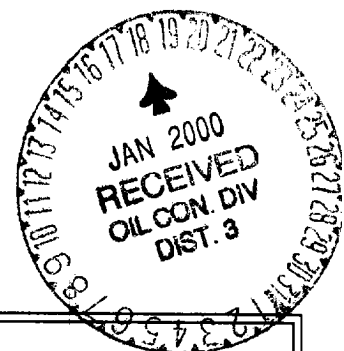


State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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



PIT REMEDIATION AND CLOSURE REPORT

Operator: Williams Production Co. (Williams Field Services) Telephone: (801) 584-6361
Address: P.O. Box 58900, Salt Lake City, Utah 84158-0900
WellName: ROSA #101 DK (85882)
Location: Unit or Qtr/Qtr Sec ☒ Sec 24 T 31N R 6W County Rio Arriba
PitType Dehydrator
LandType: Fee

Pit Location: Pit dimensions: length 15 ft., width 14 ft., depth 5 ft.
(Attach diagram)

Reference: Wellhead

Footage from reference: 130 ft.

Direction from reference: 10 Degrees West of South

Depth To Ground Water:	Less than 50 feet	(20 points)	
(Vertical distance from	50 feet to 99 feet	(10 points)	
contaminants to seasonal	Greater than 100 feet	(0 points)	0
high water elevation of			
ground water)			

Wellhead Protection Area:	Yes	(20 points)	
(Less than 200 feet from a private	No	(0 points)	0
domestic water source, or; less than			
1000 feet from all other water sources)			

Distance To Surface Water:	Less than 200 feet	(20 points)	
(Horizontal distance to perennial	200 feet to 1,000 feet	(10 points)	
lakes, ponds, rivers, streams, creeks,	Greater than 1,000 feet	(0 points)	0
irrigation canals and ditches)			

Ranking Score (TOTAL POINTS): 0

Date Remediation Started: 9/1/99

Date Completed: 10/2/99

Remediation Method: Excavation ☒
(check all appropriate sections)

Approx. Cubic Yard 39

Landfarmed ☒

Insitu Bioremediation

Other Landfarmed soil after mechanical aeration. LF Headspace 0 ppm.

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.

Ground Water Encountered: No

Final Pit:

Sample location ROSA 101DK-V-EXFL-01

Closure Sampling:

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

Two samples were collected, one sample from the excavation bottom and the second sample was made up of 4 points from each excavation wall.

Sample depth 5 feet

Sample date 9/1/99

Sample time 15:55

Sample Result

Benzene (ppm) 0.14

Total BTEX (ppm) 0.14

Field Headspace (ppm)

TPH (ppm) <2.0

Ground Water Sample: No

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

DATE 12-20-99

SIGNATURE  FOR WFS

PRINTED NAME Mark Harvey for Williams Field Services
AND TITLE

PIT RETIREMENT FORM

85882

Date: 9-1-99

Weather CLOY, WARM

Well Name Rosa #101 OK

Operator WPX

Sec 24

T 3W R 6W UL

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: 130

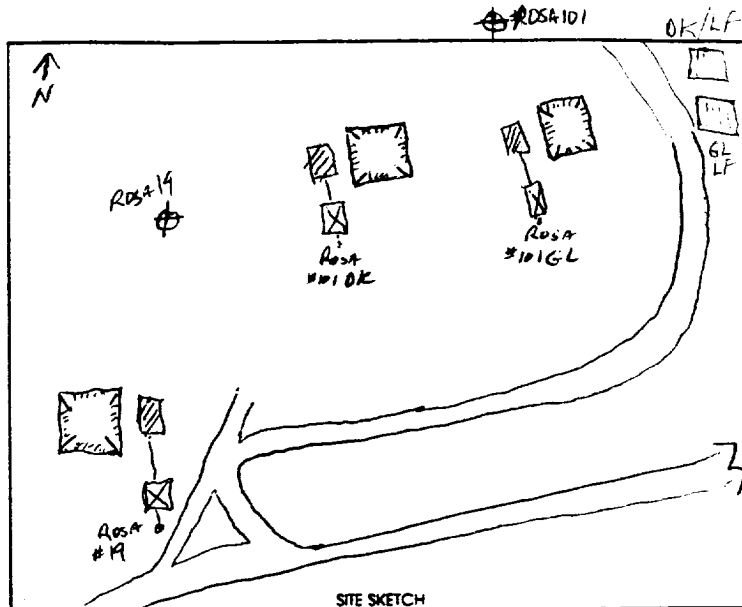
Direction: 10° Degrees E N

SR6 = 190°

X W of S X

Starting Pit Dimensions 14 x 14 x 2

Final Pit Dimensions 15 x 14 x 5



Organic Vapor Readings: Start N/A

Soil Description:

@ 2' /
@ 4' /
@ 6' /
@ 8' /
@ /
@ /

0-3' (7.5YR 4/4/4/6) BROWN CLAYEY SILT

3-5' (7.5YR 4/1) GRAY MUDSTONE, WEAKLY

TO MOD. INDURATED, SOME FISSILITY

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

Arroyo, Wash, Lake, Stream >100'

Estimated or Known Distance to Ground Water >100'

Source of Backfill (If other than processed material)

Samples collected: Type

Progress: Verification

ID ROSA 101 OK-V-EXFL-01

soil / water

Progress: Verification

ID ROSA 101 OK-V-EXWA-01

soil / water

Progress: Verification

ID

soil / water

Sample sent to Lab Via: Courier

Hand Carried

Other

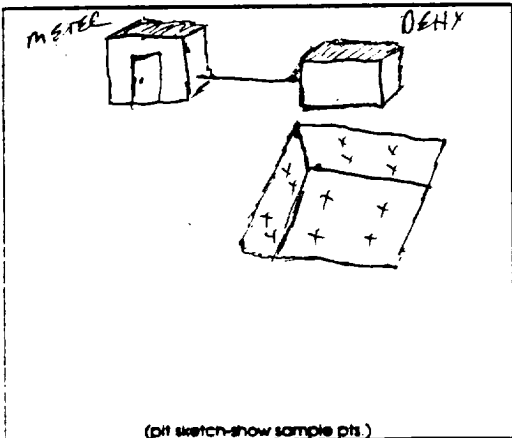
Preservative: ICE

Other

Comments: EXCAVATED + SHREDDED SOIL, LAYED OUT
PROCESSED MATERIAL IN ON-SITE LF.

Soil Shipped to: ON-SITE LANDFARM

Prepared by: JPS



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 #: 9909146

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

DATE REPORTED: 09/27/99
DATE COLLECTED: 09/01/99
DATE RECEIVED: 09/03/99

PROJECT: NM PITS

Reference Fraction: 9909146-01A 85882
Sample ID: ROSA 101DK-V-EXFL-01
Sample Date Collected: 09/01/99 15:55:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO	SW846-8015D	ND	MG/KG	2	09/11/99	BEM
BTEX	OA1/8021B			3.0		
BENZENE		0.138	MG/KG	0.050	09/08/99	KKL
TOLUENE		ND	MG/KG	0.050	09/08/99	KKL
ETHYLBENZENE		ND	MG/KG	0.050	09/08/99	KKL
TOTAL XYLENES		ND	MG/KG	0.050	09/08/99	KKL
BFB (SURROGATE)		99	125	75		
QA/QC PACKAGE LEVEL	NONE	DONE	SU			

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:

REFERENCE #: 9909146

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

DATE REPORTED: 09/27/99
DATE COLLECTED: 09/01/99
DATE RECEIVED: 09/03/99

PROJECT: NM PITS

Reference Fraction: 9909146-02A 85882
Sample ID: ROSA 101DK-V-EXWA-01
Sample Date Collected: 09/01/99 16:00:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO	SW846-8015D	ND	MG/KG	2	09/11/99	BEM
BTEX	OA1/8021B			3.0		
BENZENE		0.128	MG/KG	0.050	09/08/99	KKL
TOLUENE		ND	MG/KG	0.050	09/08/99	KKL
ETHYLBENZENE		ND	MG/KG	0.050	09/08/99	KKL
TOTAL XYLENES		ND	MG/KG	0.050	09/08/99	KKL
BFB (SURROGATE)		90	125	75		

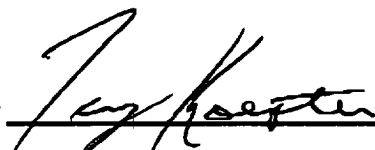
ND=NONE DETECTED

PQL=PRACTICAL QUANTITATION 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:

REFERENCE #: 9910087

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

DATE REPORTED: 11/22/99
DATE COLLECTED: 10/02/99
DATE RECEIVED: 10/05/99

PROJECT: WFS/IGW-NM PITS

Reference Fraction: 9910087-02A

Sample ID: ROSA 101 DK-V-LF-02

Sample Matrix: SOIL

Sample Date Collected: 10/02/99 12:33:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED BY
TPH-DRO	SW846-8015D	425	MG/KG	2.0	10/06/99 DN

ND=NONE DETECTED

PQL=PRACTICAL QUANTITATION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:


TERRY KOESTER
LABORATORY DIRECTOR

QWAL LABORATORIES, INC.

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

LABORATORY REPORT:

REFERENCE #: 9909865

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

DATE REPORTED: 09/27/99
DATE COLLECTED: 09/24/99
DATE RECEIVED: 09/25/99

PROJECT: WFS/IGN NM-PITS

Reference Fraction: 9909865-07A
Sample ID: ROSA 101DK-V-LF-01/85882
Sample Date Collected: 09/24/99 09:11:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TOTAL PETROLEUM HYDR	EPA 418.1	1050	MG/KG	10.0	09/27/99	BEM

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

APPROVED BY:


TERRY KOESTER
LABORATORY DIRECTOR