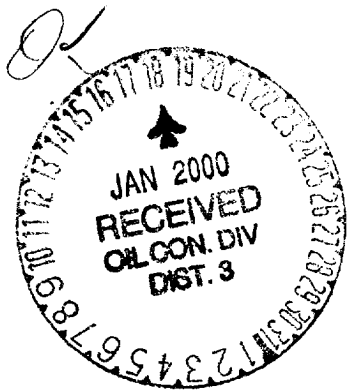


State of New Mexico
Energy, Minerals and Natural Resources Department

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 #19 (71738)
Location: Unit or Qtr/Qtr Sec h Sec 24 T 31N R 6W County Rio Arriba
PitType Dehydrator
LandType: Fee

Pit Location: Pit dimensions: length 15 ft., width 16 ft., depth 9 ft.
(Attach diagram)

Reference: Wellhead

Footage from reference: 80 ft.

Direction from reference: 30 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)	<u>0</u>
high water elevation of			
ground water)			

Wellhead Protection Area:	Yes	(20 points)	
(Less than 200 feet from a private	No	(0 points)	<u>0</u>
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)	<u>0</u>
irrigation canals and ditches)			

Ranking Score (TOTAL POINTS): 0

Date Remediation Started: 9/1/99

Date Completed: 9/24/99

Remediation Method: Excavation ☒

Approx. Cubic Yard 80

(check all appropriate sections)

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 19-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 9 feet

Sample date 9/1/99

Sample time 14:27

Sample Result

Benzene (ppm) <0.05

Total BTEX (ppm) <0.05

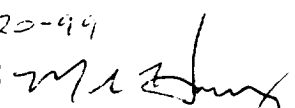
Field Headspace (ppm)

TPH (ppm) 41

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

Date: 9-1-99Weather CLOY, LARMWell Name Rosa #19Operator WPXSec 24 T 31N R 6W ULLand Type: BLM STATE FEE INDIANCounty RIO ARIZONAOne Call Made (505-765-1234)? Y NLine Marking Evident? Y N

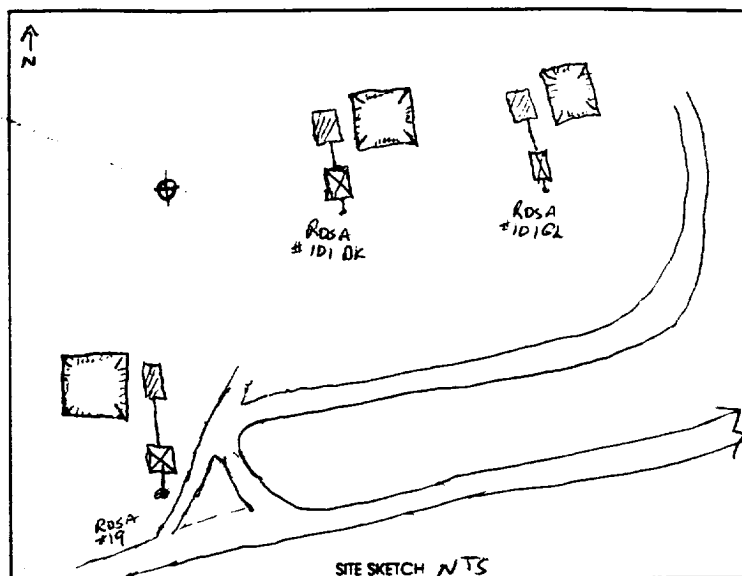
Pit Location:

Reference Wellhead X OtherDistance from: 80Direction: 30 Degrees E NBRG 210°X W of S X

Starting Pit Dimensions

15' x 15' x 3'

Final Pit Dimensions

15' x 16' x 9'Organic Vapor Readings: Start N/A

Soil Description:

@ 2' ✓

@ 4' ✓

@ 6' ✓

@ 8' ✓

@ ✓

@ ✓

0-5' (7.5YR 4/4-4/6) BRN, CLAYEY SILT

5-9' (7.5YR 4/4) GRAY MUDSTONE, WEAKLY

INDURATED. SOME FISSILITY

Well Proximity To: Residence, Domestic Water Well, Stock Well NONEArroyo, 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 Rosa19-Y-EXFL-01 soil / water

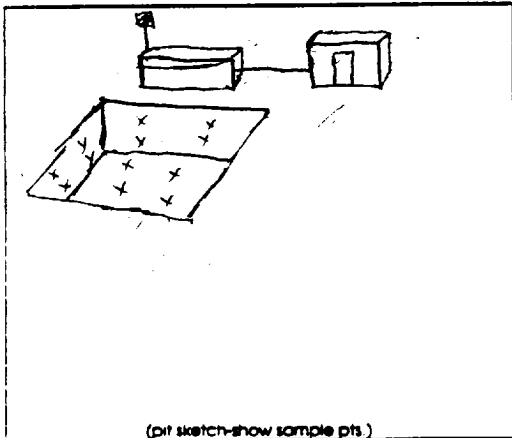
Progress: Verification:

ID Rosa19-Y-EXWA-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: LINED PIT, NO TANK SETUP. EXCAVATE.

SHRED & LAYOUT MATERIAL IN ON-SITE LF

MUDSTONE BEDROCK ENCOUNTERED @ 5' bgs. BECAME

MORE INDURATED W/ DEPTH. EXCAVATED MATERIAL

HAD SWEET GLYCOL ODOR.

Soil Shipped to: ON-SITE LFPrepared 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
PROJECT: NM PITS

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

Reference Fraction: 9909146-10A 71738
Sample ID: ROSA 19-V-EXFL-01
Sample Date Collected: 09/01/99 14:27:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO	SW846-8015D	41	MG/KG	2	09/11/99	BEM
BTEX	OA1/8021B			3.0		
BENZENE		ND	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)		96	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 #: 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: 9909146-09A

71738

Sample ID: ROSA 19-V-EXWA-01

Sample Matrix: SOIL

Sample Date Collected: 09/01/99 14:22:00

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO	SW846-8015D	48	MG/KG	2	09/11/99	BEM
BTEX	OA1/8021B			3.0		
BENZENE		ND	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)		102	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 #: 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: 9909865-06A
Sample ID: ROSA 19-V-LF-01/71738
Sample Date Collected: 09/24/99 09:28:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TOTAL PETROLEUM HYDR	EPA 418.1	ND	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

