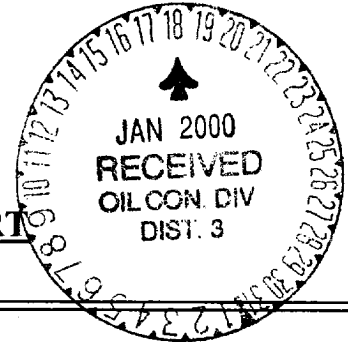


State of New Mexico  
Energy, Minerals and Natural Resources Department

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 UNIT #116 DK (Separator Pit) ( 85936-S)  
Location: Unit or Qtr/Qtr Sec A Sec 24 T 31N R 6W County Rio Arriba  
PitType Separator  
LandType Fee

Pit Location: Pit dimensions: length 23 ft., width 22 ft., depth 5 ft.  
(Attach diagram)

Reference: Wellhead

Footage from reference: 50 ft.

Direction from reference: 90 Degrees East of North

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>10</u>
irrigation canals and ditches)			

Ranking Score (TOTAL POINTS): 10

Date Remediation Started: 9/2/99

Date Completed: 9/8/99

Remediation Method: Excavation ☒

Approx. Cubic Yard 94

(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 116DK-SEP-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 9/3/99

Sample time 11:35

Sample Result

Benzene (ppm) &lt;0.05

Total BTEX (ppm) &lt;0.05

Field Headspace (ppm)

TPH (ppm) 215

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 WFSPRINTED NAME Mark Harvey for Williams Field Services  
AND TITLE

# PIT RETIREMENT FORM

85436-S JK

~~85437-S~~

Date: 9-2-99

Well Name Rosa #116 DK&GL Operator WPX

Weather PTLY CLOY, WARM

Land Type: BLM STATE FEE INDIAN

Sec 24 T31N R6W UL

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

County Rio Arriba

Line Marking Evident? Y N

## Pit Location:

Reference Wellhead X Other \_\_\_\_\_

Distance from: GL 55' OK 50'

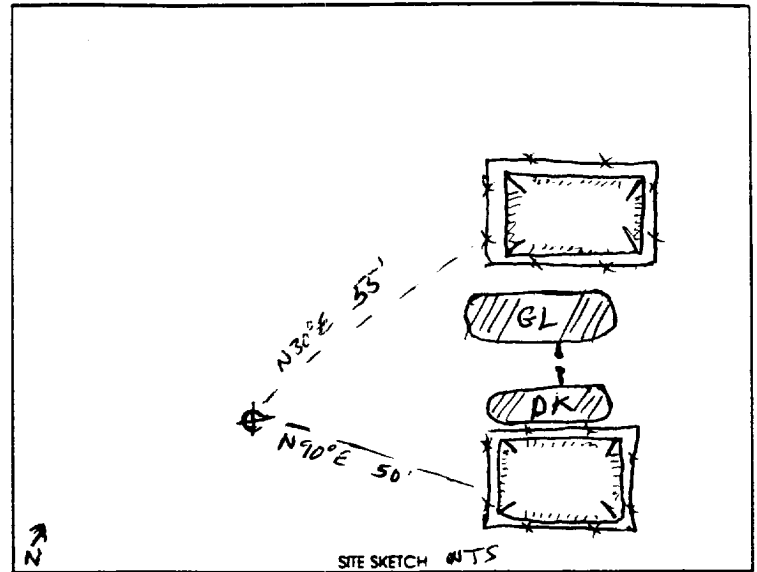
Direction: \_\_\_\_\_ Degrees \_\_\_\_\_ E N \_\_\_\_\_

GL Pit N 30°E 55' of \_\_\_\_\_

OK Pit N 90°E 50' \_\_\_\_\_ W S \_\_\_\_\_

Starting Pit Dimensions 22' x 22' x 2'

Final Pit Dimensions OK 23 GL 22 x 22 x 5'



Organic Vapor Readings: Start N/A

Soil Description:

@ 2' \_\_\_\_\_  
@ 4' \_\_\_\_\_  
@ 6' \_\_\_\_\_  
@ 8' \_\_\_\_\_  
@ \_\_\_\_\_  
@ \_\_\_\_\_

0-5' BRN, SANDY SILT w/CLAY & SS FRAG.  
5' + 1" V. FINE SAND  
5' + BEDROCK, IT GRAY - PALE BRN FINE-V. FINE  
SS, 1" SUB-ROUND GRAINS

Well Proximity To: Residence, Domestic Water Well, Stock Well NONE  
Arroyo, Wash, Lake, Stream STOCK POND ARG 331° DIST = 0.07 mi Score: 10  
Estimated or Known Distance to Ground Water > 100'

Source of Backfill (if other than processed material)

9/3/99

ROSA 116 GL-SEP-V-EXWA-01

Samples collected: Type

Progress: Verification:

ID ROSA 116 GL-SEP-V-EXFL-01

soil / water

Progress: Verification:

ID ROSA 116 OK-SEP-V-EXWA-01

soil / water

Progress: Verification:

ID ROSA 116 OK-SEP-V-EXFL-01

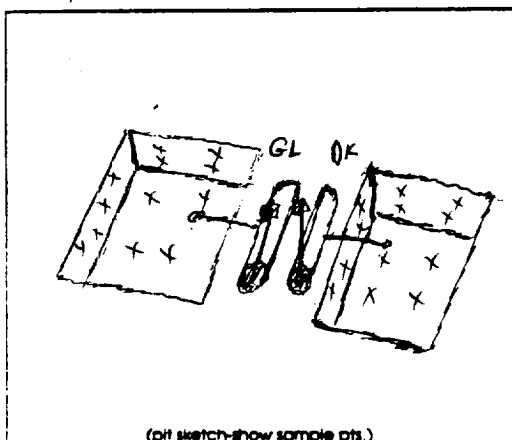
soil / water

Sample sent to Lab Via: Courier

Hand Carried

Other \_\_\_\_\_

Preservative: ICE Other \_\_\_\_\_



Comments: DUAL COMPLETION WELL - DK & GL -  
SEPARATOR PITS BOTH 22'x22'x2' HAD ABOVE GRADE  
FIBERGLASS TANKS INSTALLED. EQUIP DISCONNECTED/TANKS REMOVED.  
EXCAVATED & SHREDDED IMPACTED MATERIAL ON 9/2. COLLECTED  
VERIFICATION SAMPLES ON 9/2. SS BEDROCK ENCOUNTERED IN  
BOTH PITS @ 5' bgs

Soil Shipped to: ON-SITE LF

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 #: 9909359

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

DATE REPORTED: 09/21/99  
DATE COLLECTED: 09/03/99  
DATE RECEIVED: 09/10/99

PROJECT: WFS/NM PITS

Reference Fraction: 9909359-04A  
Sample ID: ROSA 116DK-SEP-V-EXPL-01  
Sample Date Collected: 09/03/99 11:35:00

85936

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO	SW846-8015D	215	MG/KG	2	09/16/99	BEI
BTEX	OA1/8021B			3.0		
BENZENE		ND	MG/KG	0.050	09/14/99	KKI
TOLUENE		ND	MG/KG	0.050	09/14/99	KKI
ETHYLBENZENE		ND	MG/KG	0.050	09/14/99	KKI
TOTAL XYLENES		ND	MG/KG	0.050	09/14/99	KKI
BFB (SURROGATE)		84	125	75		

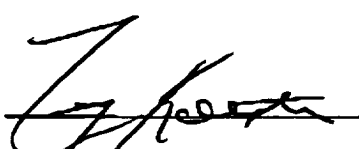
ND=NONE DETECTED

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 #: 9909359

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

DATE REPORTED: 09/21/99  
DATE COLLECTED: 09/03/99  
DATE RECEIVED: 09/10/99

PROJECT: WFS/NM PITS

Reference Fraction: 9909359-03A

Sample ID: ROSA 116DK-SEP-V-EXWA-01

85936-S

Sample Date Collected: 09/03/99 11:47:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO	SW846-8015D	ND	MG/KG	2	09/16/99	BEM
BTEX	OA1/8021B			3.0		
BENZENE		ND	MG/KG	0.050	09/14/99	KKL
TOLUENE		ND	MG/KG	0.050	09/14/99	KKL
ETHYLBENZENE		ND	MG/KG	0.050	09/14/99	KKL
TOTAL XYLENES		ND	MG/KG	0.050	09/14/99	KKL
BFB (SURROGATE)		86	125	75		

ND=NONE DETECTED

PQL=PRACTICAL QUANTITATION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

90

TERRY KOESTER  
LABORATORY DIRECTOR

## QWAL LABORATORIES, INC.

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

## LABORATORY REPORT:

REFERENCE #: 9909359

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

DATE REPORTED: 09/21/99  
DATE COLLECTED: 09/08/99  
DATE RECEIVED: 09/10/99

Reference Fraction: 9909359-16A 85936-S  
Sample ID: ROSA 116DK-SEP-V-LF-01  
Sample Date Collected: 09/08/99 14:55:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO	SW846-8015D	46	MG/KG	2	09/16/99	BE
BTEX	OA1/8021B			3.0		
BENZENE		0.096	MG/KG	0.050	09/14/99	KKI
TOLUENE		ND	MG/KG	0.050	09/14/99	KKI
ETHYLBENZENE		ND	MG/KG	0.050	09/14/99	KKI
TOTAL XYLENES		ND	MG/KG	0.050	09/14/99	KKI
BFB (SURROGATE)		80	125	75		

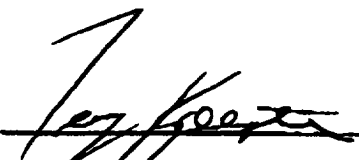
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TERRY KOESTER  
LABORATORY DIRECTOR