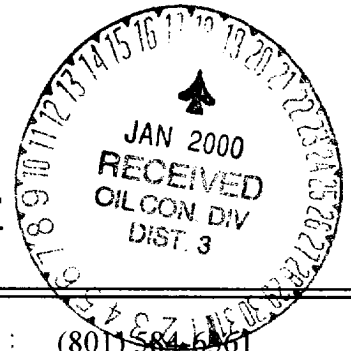


OK

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 GL (Separator Pit) (85937-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 22 ft., width 22 ft., depth 5 ft.
(Attach diagram)

Reference: Wellhead

Footage from reference: 85 ft.

Direction from reference: 10 Degrees West 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: 9/3/99

Date Completed: 9/8/99

Remediation Method: Excavation ☒
(check all appropriate sections)

Approx. Cubic Yard 90

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 116GL-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 12:15

Sample Result

Benzene (ppm) <0.05

Total BTEX (ppm) <0.05

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 9-20-99

SIGNATURE  For WFSPRINTED NAME Mark Harvey for Williams Field Services
AND TITLE

PIT RETIREMENT FORM

Date: 9-2-99Well Name: Rosa #116 DK & GL Operator: WPXand Type: BLM STATE FEE INDIANOne Call Made (505-765-1234)? Y NOne Marking Evident? Y NWeather: PTLY CLOUDY, WARMSec 24 T31N R6W ULCounty: Rio Arriba

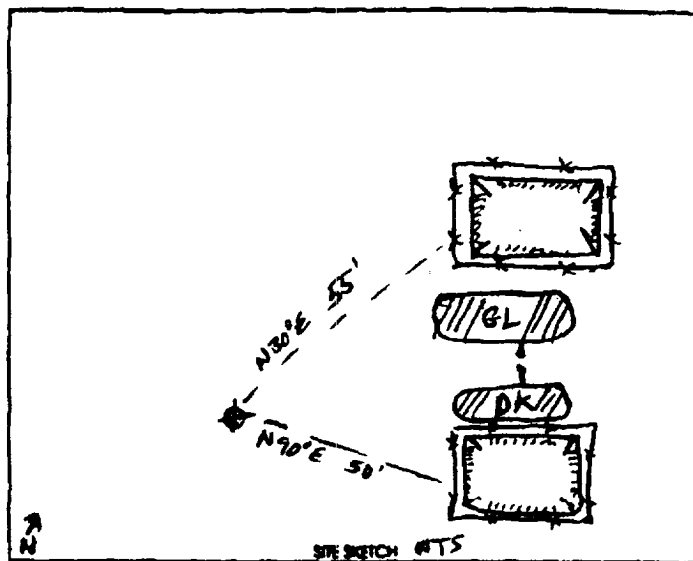
Pit Location:

Reference: Wellhead X Other _____Distance from: GL 55' DK 50'

Direction: _____ Degrees _____ E N _____

SL Pit N 30° E 55' of _____

DK Pit N 90° E 50' _____ W S _____

Starting Pit Dimensions: 22' x 22' x 2'Final Pit Dimensions: DK 22 x 22 x 5'GL 22 x 22 x 5'Organic Vapor Readings: Start N/A

Soil Description:

- ② 2'
- ② 4'
- ② 6'
- ② 8'
- ②
- ②

0-5' BRN, SANDY SILT w/CLAY + SS FRAG.

5' + 1" V. FINE SAND

5' + BEDROCK, LT GRAY - PALE BRN, FINE-V. FINE

SS, 1" SUB-ROUND GRAINS

Well Proximity To: Residence, Domestic Water Well, Stock Well NONEArroyo, Wash, Lake, Stream STOCK POND ARE 331° DIST = 0.07 mi Scale 10Estimated or Known Distance to Ground Water > 100'

Source of Backfill (if other than processed material)

9/13/99

Rosa #116 GL-SEP-V-EXT-01

Samples collected: Type

Progress Verification:

ID

Rosa #116 GL-SEP-V-EXT-01

soil / water

Progress Verification:

ID

Rosa #116 DK-SEP-V-EXT-01

soil / water

Progress Verification:

ID

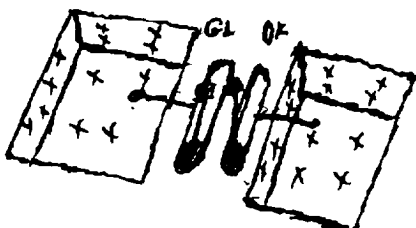
Rosa #116 DK-SEP-V-EXT-01

soil / water

Sample sent to Lab Via: Courier

Hand Carried

Other _____

Preservative: ICE Other _____Comments: DUAL COMPLETION WELL - DK & GL.SEPARATOR PITS BOTH 22' x 22' x 2' HAD ABOVE GROUNDFIBERGLASS TANKS INSTALLED. EQUIP DISCONNECTED / TANKS REMOVED.EXCAVATED + SHREDDED IMPACTED MATERIAL ON 9/2. COLLECTEDVERIFICATION SAMPLES ON 9/2. SS BEDROCK EXCAVATED INBOTH PITS @ 5' DEPT.Soil Shipped to: ON-SITE LFPrepared by: APS

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
PROJECT: WFS/NM PITS

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

Reference Fraction: 9909359-05A
Sample ID: ROSA 116GL-SEP-V-EXWA-01
Sample Date Collected: 09/03/99 12:08:00

85937-5

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO	SW846-8015D	5	MG/KG	2	09/16/99	BEM
BTEX	OA1/8021B			3.0		
BENZENE		0.081	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:

12.

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
PROJECT: WFS/NM PITS

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

Reference Fraction: 9909359-06A
Sample ID: ROSA 116GL-SEP-V-EXFL-01
Sample Date Collected: 09/03/99 12:15:00

85937-S

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)		81	125	75		

ND=NONE DETECTED

PQL=PRACTICAL QUANTITATION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

10.

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
PROJECT: WFS/NM PITS

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

Reference Fraction: 9909359-17A
Sample ID: ROSA 116GL-SEP-V-LF-01
Sample Date Collected: 09/08/99 15:00:00

85937-5

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO	SW846-8015D	53	MG/KG	2	09/16/99	BEM
BTEX	OAL/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)		76	125	75		

ND=NONE DETECTED

PQL=PRACTICAL QUANTITATION LIMIT

SU-STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

qo.


TERRY KOESTER
LABORATORY DIRECTOR