

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 27-4 UNIT #3 (71315)
Location: Unit or Qtr/Qtr Sec B Sec 15 T 27N R 4W County Rio Arriba
PitType Drip
LandType: Forest

Pit Location: Pit dimensions: length 18 ft., width 18 ft., depth 17 ft.
(Attach diagram)

Reference: Wellhead

Footage from reference: 104 ft.

Direction from reference: 106 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>10</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): 10

Date Remediation Started: 8/24/98

Date Completed: 8/24/98

Remediation Method: Excavation ☒

Approx. Cubic Yard 205

(check all appropriate sections)

Landfarmed ☒Insitu Bioremediation ☐

Other

Landfarmed soil after mechanical aeration. LF Headspace 0ppm

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. Returned to site 2/16/00 and advanced sampling probe to 19.5' to collect sample. Results: TPH ND BTEX ND

Ground Water Encountered: No

Final Pit:

Sample location 27-4#3 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 17 feet

Sample date 8/26/98

Sample time 7:30

Sample Result

Benzene (ppm) <0.050

Total BTEX (ppm) <0.050

Field Headspace (ppm)

TPH (ppm) 7.53

Ground Water Sample: 0

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

DATE 3-7-00 REV.

SIGNATURE

PRINTED NAME Mark Harvey for Williams Field Services
AND TITLE

PIT RETIREMENT FORM

Date: 8/24/98

71315

Weather PARTLY CLOUDY - 85°

Well Name SJ 27-4 #3 Operator BURLINGTON

Sec 15 T27N R4W UL B

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 _____

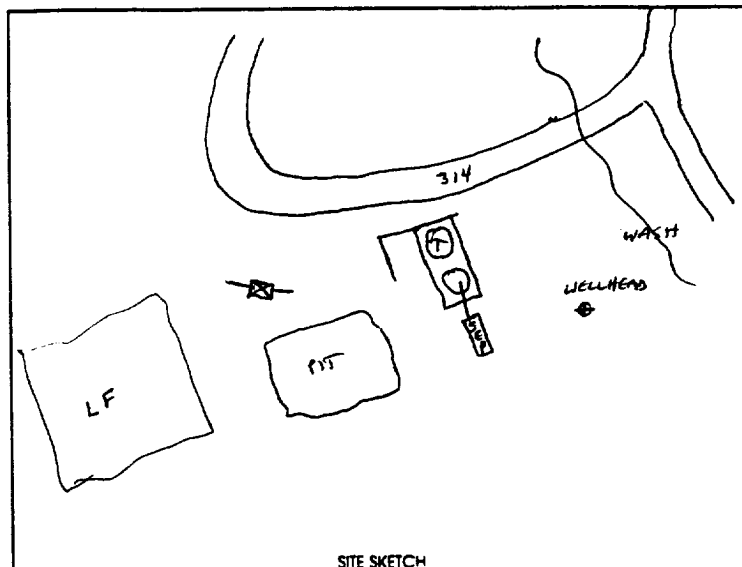
Distance from: 104'

Direction: 106 Degrees _____ E N X

_____ of _____
X W S _____

Starting Pit Dimensions NA x TANK x SET

Final Pit Dimensions 18' x 18' x 17'



Organic Vapor Readings: Start _____
@ 2' _____
@ 4' _____
@ 6' _____
@ 8' _____
@ _____
@ 17' _____

Soil Description: CLAYEY SILT W/ SAND

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

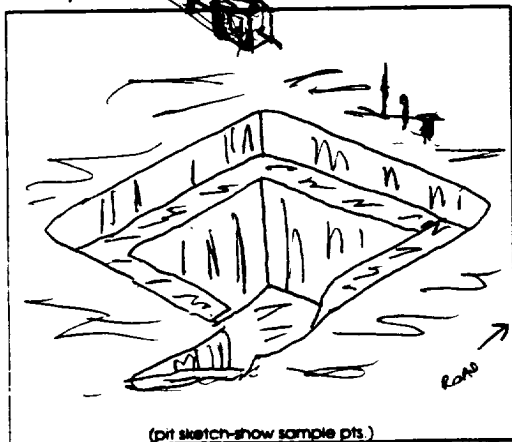
Arroyo, Wash, Lake, Stream WASH ~ 200 YDS NE

Estimated or Known Distance to Ground Water 75-100'

Source of Backfill (if other than processed material) _____

Samples collected: Type _____ Progress: Verification: ID 27-4#3 -V-EXFL-01 soil / water
Progress: Verification: ID 27-4#3 -V-EXGWA-01 soil / water
Progress: Verification: ID _____ soil / water

Sample sent to Lab Via: Courier _____ Hand Carried _____ Other _____ Preservative: ICE Other _____



Comments: TANK CONTIGUOUS PULLED - MOVE TANK - TAKE DOWN FENCE -
BEGIN EXCAVATING - MATERIAL HAS MODERATE TO STRONG ODOOR TO ~ 8' -
CONTINUE EXCAVATING - CUT BACK SIDEWALLS - NORTH WALL HAS SOME
STAINING & ODOOR - CANNOT EXCAVATE FURTHER INTO N. WALL DUE TO LINES -
FLOOR ODOOR FAINT - WALLS MOSTLY CLEAN W/ SLIGHT STAINING -
CUT TERRACE - RAMP & BEAM - PLACE SOIL IN LF WEST OF PIT -

Soil Shipped to: ON-SITE LF

Prepared by: M. A. [Signature]

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 #: 8402596

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

DATE REPORTED: 02/23/00
DATE COLLECTED: 02/16/00
DATE RECEIVED: 02/18/00

Reference Fraction: 8402596-14A
Sample ID: SJ27-4-3-EX-RS-01(71315)
Sample Date Collected: 02/16/00 16:20:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO	SW846-8015D	ND	MG/KG	2	02/22/00	BEM
BTEX	OA1/8021B			3.0		
BENZENE		ND	MG/KG	0.050	02/21/00	KKL
TOLUENE		ND	MG/KG	0.050	02/21/00	KKL
ETHYLBENZENE		ND	MG/KG	0.050	02/21/00	KKL
TOTAL XYLENES		ND	MG/KG	0.050	02/21/00	KKL
BFB (SURROGATE)		95	125	75		

ND=NONE DETECTED

PQL=PRACTICAL QUANTITATION LIMIT

SU-STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY: T. KOESTER

TERRY KOESTER
LABORATORY DIRECTOR

QWAL LABORATORIES, INC.

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

LABORATORY REPORT:

REFERENCE #: 9809139

SENT WILLIAMS FIELD SERVICE-MS4JI
 TO: P.O. BOX 58900
 SALT LAKE CITY, UTAH 84108
 MARK HARVEY
 PROJECT: 98 PIT REMEDIATION (CRZ)

DATE REPORTED: 09/08/98
 DATE COLLECTED: 08/26/98
 DATE RECEIVED: 09/02/98

Reference Fraction: 9809139-29A
 Sample ID: CRZ/27-4#3 V-BXFL-01 / 71315
 Sample Date Collected: 08/26/98 07:30:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	7.53	MG/KG	2.0	09/05/98	SKW
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	09/05/98	JLO
TOLUENE		ND	MG/KG	0.050	09/05/98	JLO
ETHYLBENZENE		ND	MG/KG	0.050	09/05/98	JLO
TOTAL XYLENES		ND	MG/KG	0.050	09/05/98	JLO
BFB (SURROGATE)		81	125	75		

ND-NONE DETECTED

DL-DETECTION LIMIT

SU-STANDARD UNITS

B-DETECTED IN METHOD BLANK

APPROVED BY:


 PERRY 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 #: 9809139

SENT WILLIAMS FIELD SERVICE-MS4JI
TO: P.O. BOX 58900
SALT LAKE CITY, UTAH 84108
MARK HARVEY
PROJECT: 98 PIT REMEDIATION (CRZ)

DATE REPORTED: 09/08/98
DATE COLLECTED: 08/26/98
DATE RECEIVED: 09/02/98

Reference Fraction: 9809139-30A

Sample ID: CRZ/27-4#3 V-EXWA-01 / 71315

Sample Matrix: SOIL

Sample Date Collected: 08/26/98 07:30:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	ND	MG/KG	2.0	09/05/98	SKW
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	09/05/98	JLO
TOLUENE		ND	MG/KG	0.050	09/05/98	JLO
ETHYLBENZENE		ND	MG/KG	0.050	09/05/98	JLO
TOTAL XYLENES		ND	MG/KG	0.050	09/05/98	JLO
BFB (SURROGATE)		110	125	75		

ND-NONE DETECTED

DL-DETECTION 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 #: 9809397

SENT WILLIAMS FIELD SERVICE-MS4JI
TO: P.O. BOX 58900
SALT LAKE CITY, UTAH 84108
MARK HARVEY

DATE REPORTED: 09/16/98
DATE COLLECTED: 09/04/98
DATE RECEIVED: 09/10/98

PROJECT: CRZ DISTRICT - '98

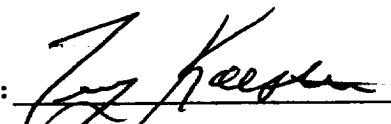
Reference Fraction: 9809397-01A
Sample ID: SJ 27-4 #3-V-LF-02
Sample Date Collected: 09/04/98 14:35:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	39.9	MG/KG	2.0	09/15/98	SKW
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	09/14/98	JLO
TOLUENE		0.076	MG/KG	0.050	09/14/98	JLO
ETHYLBENZENE		ND	MG/KG	0.050	09/14/98	JLO
TOTAL XYLENES		ND	MG/KG	0.050	09/14/98	JLO
BFB (SURROGATE)		119	125	75		

ND=NONE DETECTED
DL=DETECTION 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 #: 9809397

SENT WILLIAMS FIELD SERVICE-MS4JI
TO: P.O. BOX 58900
SALT LAKE CITY, UTAH 84108
MARK HARVEY
PROJECT: CRZ DISTRICT - '98

DATE REPORTED: 09/16/98
DATE COLLECTED: 09/04/98
DATE RECEIVED: 09/10/98

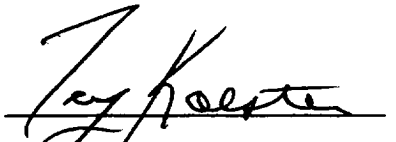
Reference Fraction: 9809397-02A
Sample ID: SJ 27-4 #3D-V-LF-02
Sample Date Collected: 09/04/98 14:45:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	44.0	MG/KG	2.0	09/15/98	SKW
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	09/14/98	JLO
TOLUENE		0.388	MG/KG	0.050	09/14/98	JLO
ETHYLBENZENE		ND	MG/KG	0.050	09/14/98	JLO
TOTAL XYLENES		0.188	MG/KG	0.050	09/14/98	JLO
BFB (SURROGATE)		84	125	75		

ND=NONE DETECTED
DL=DETECTION 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 #: 9809139

SENT WILLIAMS FIELD SERVICE-MS4JI
TO: P.O. BOX 58900
SALT LAKE CITY, UTAH 84108
MARK HARVEY

DATE REPORTED: 09/08/98
DATE COLLECTED: 08/30/98
DATE RECEIVED: 09/02/98

PROJECT: 98 PIT REMEDIATION (CRZ)

Reference Fraction: 9809139-05A

Sample ID: CRZ/27-403 V-LF-01 / 71315

Sample Matrix: SOIL

Sample Date Collected: 08/30/98 12:28:00 HS16

TEST	METHOD	RESULT	UNITS	DL	ANALYZED BY
SAMPLE RECEIVED BROK	NONE			NONE	

ID-NONE DETECTED

DL-DETECTION LIMIT

SU-STANDARD UNITS

3-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 #: 9809505

SENT WILLIAMS FIELD SERVICE-MS4JI
TO: P.O. BOX 58900
SALT LAKE CITY, UTAH 84108
MARK HARVEY
PROJECT: PIT REMEDIATION 98

DATE REPORTED: 09/22/98
DATE COLLECTED: 09/15/98
DATE RECEIVED: 09/16/98

Reference Fraction: 9809505-43A

Sample ID: 27-4#3-V-LF-01

Sample Matrix: SOIL

Sample Date Collected: 09/15/9808:45:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	ND	MG/KG	2.0	09/19/98	SKW
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	09/19/98	JLO
TOLUENE		ND	MG/KG	0.050	09/19/98	JLO
ETHYLBENZENE		ND	MG/KG	0.050	09/19/98	JLO
TOTAL XYLENES		ND	MG/KG	0.050	09/19/98	JLO
BFB (SURROGATE)		76	125	75		

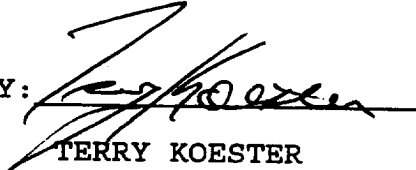
ND=NONE DETECTED

DL=DETECTION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:


TERRY KOESTER
LABORATORY DIRECTOR