

*Non-Vulnerable*

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

**RECEIVED**  
DEC - 6 1999

**PIT REMEDIATION AND CLOSURE REPORT**

**OIL CON. DIV.**  
**DIST. 3**

Operator: Merrion ( Williams Field Services) Telephone: (801) 584-6361  
Address: P.O. Box 58900, Salt Lake City, Utah 84158-0900  
WellName: Featherstone Federal #1 MV ( 86328 )  
Location: Unit or Qtr/Qtr Sec A Sec 19 T 26N R 2W County Rio Arriba  
PitType Dehy  
LandType: BLM

Pit Location: Pit dimensions: length 42 ft., width 30 ft., depth 11 ft.  
(Attach diagram)

Reference: Wellhead

Footage from reference: 68 ft.

Direction from reference: 48 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>0</u>
irrigation canals and ditches)			

Ranking Score (TOTAL POINTS): 0

Date Remediation Started: 8/3/98

Date Completed: 8/4/98

Remediation Method: Excavation ☒

Approx. Cubic Yard 513

(check all appropriate  
sections)Landfarmed ☒Insitu Bioremediation ☐

Other Landfarmed soil after mechanical aeration. LF Headspace 38 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:

Closure Sampling:

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

Sample location FEATHERSTONE #1MV/V-EXFL-1

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 11 Feet

Sample date 8/6/98

Sample time 10:16

Sample Result

Benzene (ppm) &lt;0.050

Total BTEX (ppm) &lt;0.050

Field Headspace (ppm)

TPH (ppm) 11.8

Ground Water Sample: No

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

DATE 10-11-99 Rev.

SIGNATURE 

PRINTED NAME Mark Harvey for Williams Field Services  
AND TITLE P.C.

# PIT RETIREMENT FORM

86328

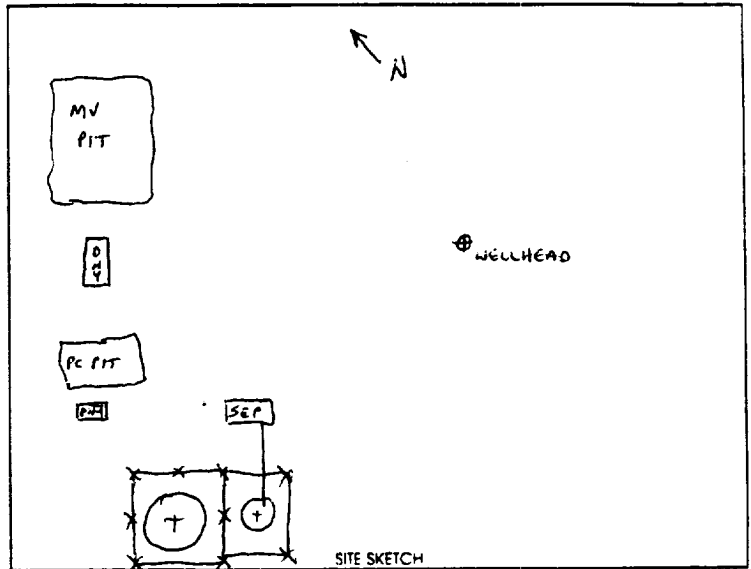
Weather PARTLY CLOUDY - 83°

Date: 8/3/98  
 Well Name FEATHERSTONE #1 <sup>MV</sup> Operator MERRON Sec 19 T 26N R 24W UL  
 Land Type: BLM STATE FEE INDIAN  
 One Call Made (505-765-1234)? (Y) N  
 Line Marking Evident? (Y) N

## Pit Location:

Reference Wellhead X Other \_\_\_\_\_  
 Distance from: 68'  
 Direction: 48 Degrees \_\_\_\_\_ E N X  
 of  
X W S \_\_\_\_\_

Starting Pit Dimensions 20' x 15' x 3'  
 Final Pit Dimensions 42' x 30' x 10 1/2'



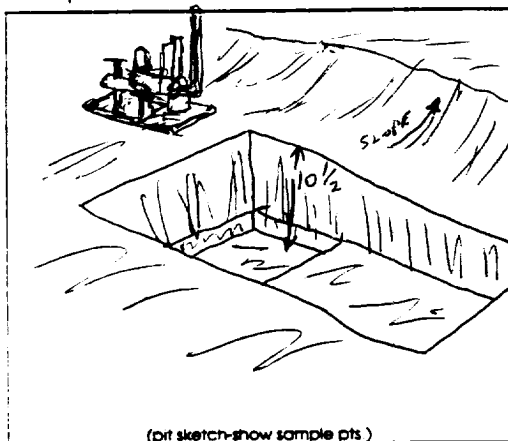
Organic Vapor Readings: Start \_\_\_\_\_ Soil Description: SILTY SAND  
 @ 2' \_\_\_\_\_  
 @ 4' \_\_\_\_\_  
 @ 6' \_\_\_\_\_  
 @ 8' \_\_\_\_\_  
 @ 10' \_\_\_\_\_  
 @ \_\_\_\_\_

Well Proximity To: Residence, Domestic Water Well, Stock Well NONE  
 Arroyo, Wash, Lake, Stream NONE  
 Estimated or Known Distance to Ground Water > 100'

Source of Backfill (if other than processed material) \_\_\_\_\_

Samples collected: Type Progress: Verification: ID FEATHERSTONE #1 MV-V-EXWA-01 Soil / water  
 Progress: Verification: ID FEATHERSTONE #1 MV-V-EXFL-01 Soil / water  
 Progress: Verification: ID \_\_\_\_\_ soil / water

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



Comments: 2 PITS THIS LOCATION - PC SIDE IS METER # 86327  
MV PIT IS LARGE W/ SOME FREE OIL - HEAVILY STAINED - EXCAVATE  
UNTIL VISUALLY CLEAN - ODOR DIMINISHES W/ DEPTH - SOME STAINING  
REMAINS ON DEPTH WALL - PLACE SOIL IN LANDFARM ON EAST SIDE OF  
LOCATION - TERRACE + RAMP

Soil Shipped to: ON-SITE LF  
 Prepared by: M. J. Long

**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 #:** 9808253

SENT WILLIAMS GAS PIPELINE WEST  
 TO: P.O. BOX 58900  
 SALT LAKE CITY, UT 84158  
 MARK HARVEY  
 PROJECT: JIC PITS '98

DATE REPORTED: 08/21/98  
 DATE COLLECTED: 08/06/98  
 DATE RECEIVED: 08/08/98

Reference Fraction: 9808253-09A

Sample ID: FEATHERSTONE #1MV/V-EXFL-1 / 86327<sup>28</sup>

Sample Matrix: SOIL

Sample Date Collected: 08/06/98 10:16:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	11.8	MG/KG	2.0	08/19/98	SKV
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	08/14/98	JLC
TOLUENE		ND	MG/KG	0.050	08/14/98	JLC
ETHYLBENZENE		ND	MG/KG	0.050	08/14/98	JLC
TOTAL XYLENES		ND	MG/KG	0.050	08/14/98	JLC
BFB (SURROGATE)		86	125	75		

ND=NONE DETECTED

DL=DETECTION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

*Terry Koester*  
 km

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 #:** 9808253

SENT WILLIAMS GAS PIPELINE WEST  
 TO: P.O. BOX 58900  
 SALT LAKE CITY, UT 84158  
 MARK HARVEY  
 PROJECT: JIC PITS '98

DATE REPORTED: 08/21/98  
 DATE COLLECTED: 08/06/98  
 DATE RECEIVED: 08/08/98

Reference Fraction: 9808253-10A

Sample ID: FEATHERSTONE #1MV/V-EXWA-1 / 86327<sup>20</sup>

Sample Matrix: SOIL

Sample Date Collected: 08/06/98 11:41:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	3380	MG/KG	2.0	08/19/98	SKV
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	08/14/98	JLC
TOLUENE		ND	MG/KG	0.050	08/14/98	JLC
ETHYLBENZENE		ND	MG/KG	0.050	08/14/98	JLC
TOTAL XYLENES		0.505	MG/KG	0.050	08/14/98	JLC
BFB (SURROGATE)		107	125	75		

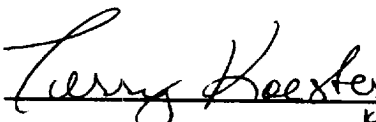
ND=NONE DETECTED

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 #: 9808765

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

DATE REPORTED: 08/31/98  
DATE COLLECTED: 08/21/98  
DATE RECEIVED: 08/25/98

PROJECT: JICARILLA DISTRICT '98

Reference Fraction: 9808765-15A

Sample ID: FEATHERSTONE#1MV-V-LF-01 / 86228  
Sample Date Collected: 08/21/98 15:05:00 / 38

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
CPH	SW846-8015	2180	MG/KG	20.0	08/28/98	SKW

ND-NONE DETECTED

DL-DETECTION LIMIT

SU-STANDARD UNITS

B-DETECTED IN METHOD BLANK

APPROVED BY:

  
TERRY ROESTER  
LABORATORY DIRECTOR