

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 Oil and Gas Telephone: (801) 584-6361
Address: P.O. Box 58900, Salt Lake City, Utah 84158-0900
WellName: Featherstone Federal #1 PC (86327)
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 15 ft., width 13 ft., depth 11 ft.
(Attach diagram)

Reference: Wellhead

Footage from reference: 86 ft.

Direction from reference: 86 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 high water elevation of ground water) Greater than 100 feet (0 points) 0

Wellhead Protection Area: Yes (20 points)
(Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources) No (0 points) 0

Distance To Surface Water: Less than 200 feet (20 points)
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches) 200 feet to 1,000 feet (10 points)
Greater than 1,000 feet (0 points) 0

Ranking Score (TOTAL POINTS): 0

Date Remediation Started: 8/3/98

Date Completed: 8/4/98

Remediation Method: Excavation ☒

Approx. Cubic Yard 80

(check all appropriate sections)

Landfarmed ☐Insitu Bioremediation ☐

Other

Landfarmed soil after mechanical aeration. LF Headspace 10ppm

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 FEATHERSTONE #1PC/V/-EXFL-1

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 11 Feet

Sample date 8/6/98

Sample time 10:19

Sample Result

Benzene (ppm) <0.050

Total BTEX (ppm) <0.050

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 10-11-99 REV.

SIGNATURE

PRINTED NAME
AND TITLEMark Harvey for Williams Field Services
PROJECT COORDINATOR

PIT RETIREMENT FORM

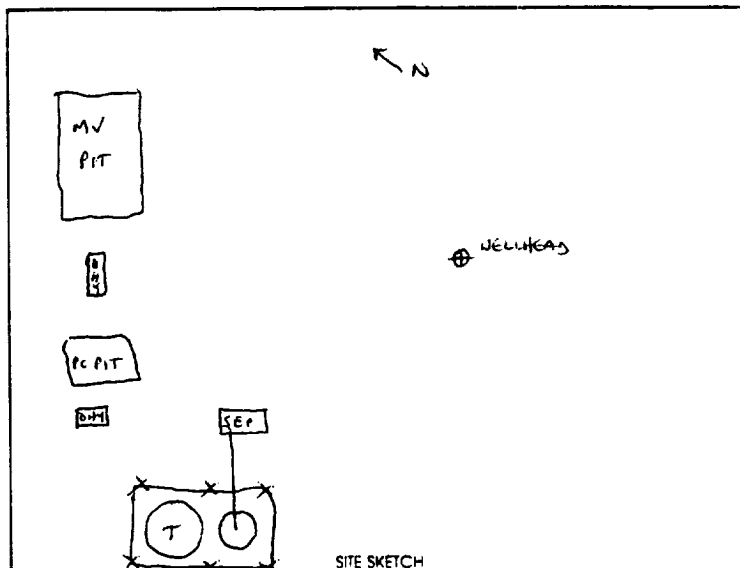
~ 82°

Date: 8/3/98 PC
 Well Name FEATHERSTONE FEDERAL #1 Operator MERRION Sec 19 T26N R2W UL A
 Land Type: BLM STATE FEE INDIAN County ARIZONA
 One Call Made (505-765-1234)? Y N
 Line Marking Evident? Y N

Pit Location:

Reference Wellhead X Other _____
 Distance from: 86'
 Direction: 86 Degrees _____ E N X
 of
X W S _____

Starting Pit Dimensions 12' x 10' x 2'
 Final Pit Dimensions 15' x 13' x 11'



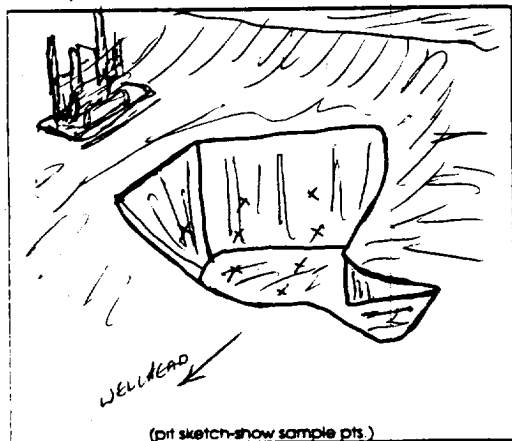
Organic Vapor Readings: Start _____ Soil Description: SLTY SAND
 @ 2' _____
 @ 4' _____
 @ 6' _____
 @ 8' _____
 @ 10' _____
 @ 11' _____

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 FEATHER FED-V-EXWA-01 SOIL / water
 Progress: Verification: ID FEATHER FED-V-EXFL-01 SOIL / water
 Progress: Verification: ID _____ soil / water

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



Comments: SOME STAINING ON SURFACE V / MODERATE ODR
EXCAVATE + LANDFARM ON NORTH END OF LOCATION - WALLS CLEAN UP
EXCEPT PETH WALL WHICH HAS SOME STAINING - FLOOR HAS ONLY FAINT
HYDROCARBON ODR

Soil Shipped to: ON-SITE LF
 Prepared by: M. J. [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 #: 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: 9808253-11A

Sample ID: FEATHERSTONE #1PC/V-EXFL-1 / 86326²⁷ Sample Matrix: SOIL
Sample Date Collected: 08/06/98 10:19:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	ND	MG/KG	2.0	08/19/98	SKW
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	08/14/98	JLO
TOLUENE		ND	MG/KG	0.050	08/14/98	JLO
ETHYLBENZENE		ND	MG/KG	0.050	08/14/98	JLO
TOTAL XYLENES		ND	MG/KG	0.050	08/14/98	JLO
BFB (SURROGATE)		81	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 #: 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: 9808253-12A

Sample ID: FEATHERSTONE #1PC/V-EXWA-1 / 86328 Sample Matrix: SOIL

Sample Date Collected: 08/06/98 10:15:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	ND	MG/KG	2.0	08/19/98	SKW
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)		98	125	75		

ND=NONE DETECTED

DL=DETECTION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

Terry Koester

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 #: 9809246

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

DATE REPORTED: 09/11/98
DATE COLLECTED: 09/03/98
DATE RECEIVED: 09/05/98

Reference Fraction:9809246-10A

Sample ID: FEATHERSTONE#1PC V-LF-01 / 86327

Sample Matrix: SOIL

Sample Date Collected: 09/03/9816:40:00

HS 16

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	2750	MG/KG	400	09/09/98	SKW

ND=NONE DETECTED

DL=DETECTION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

TERRY KOESTER
LABORATORY DIRECTOR