

*Denny S. Faust*  
DEPUTY OIL & GAS INSPECTOR

AUG 19 1999

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

NO BTEX on LF

RECEIVED  
MAY 27 1999

PIT REMEDIATION AND CLOSURE REPORT

OIL CON. DIV.  
DIST. 3

Operator: Beartooth Oil and Gas (Williams Field Services) Telephone: (801) 584-6361  
Address: P.O. Box 58900, Salt Lake City, Utah 84158-0900  
WellName: MINEL FEDERAL #2 ( 85578 )  
Location: Unit or Qtr/Qtr Sec M Sec 7 T 25N R 3W County Rio Arriba  
PitType Dehydrator  
LandType Fee

Pit Location: Pit dimensions: length 14 ft., width 14 ft., depth 12 ft.  
(Attach diagram)

Reference: Wellhead

Footage from reference: 105 ft.

Direction from reference: 46 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)	0
high water elevation of			
ground water)			

Wellhead Protection Area:	Yes	(20 points)	
(Less than 200 feet from a private	No	(0 points)	0
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)	0
irrigation canals and ditches)			

Ranking Score (TOTAL POINTS): 0

Date Remediation Started: 8/8/98

Date Completed: 8/8/98

Remediation Method: Excavation ☒

Approx. Cubic Yard 90

(check all appropriate sections)

Landfarmed ☒

Insitu Bioremediation

Other

Landfarmed soil after mechanical aeration.

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 MINEL #2-V-EXFL-01

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 12 Feet

Sample date 8/8/98

Sample time 12:25

Sample Result

Benzene (ppm) &lt;0.050

Total BTEX (ppm) &lt;0.050

Field Headspace (ppm)

TPH (ppm) 69.2

Ground Water Sample: No

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

DATE 5-10-99

SIGNATURE



PRINTED NAME Mark Harvey for Williams Field Services  
AND TITLE

# PIT RETIREMENT FORM

85578

Date: 8/8/98

Weather SUNNY ~ 84°

Well Name MINEL FEO #2 Operator BEARTOOTH

Sec 7 T 25N R 3W UL M

Land Type: BLM STATE (FEE) INDIAN

County RIO ARriba

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

Line Marking Evident? (Y) N

## Pit Location:

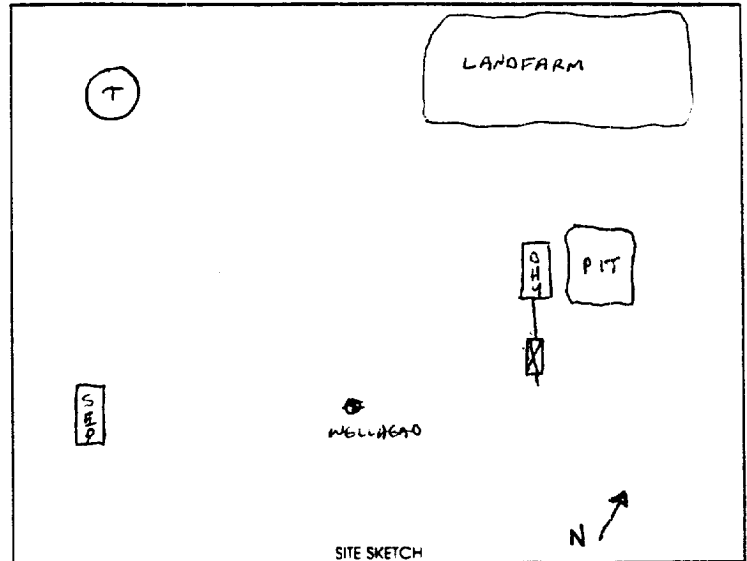
Reference Wellhead X Other \_\_\_\_\_

Distance from: 105'

Direction: 46 Degrees X E N X of \_\_\_\_\_ W S \_\_\_\_\_

Starting Pit Dimensions 11 x 12 x 2'

Final Pit Dimensions 14 x 14 x 12



Organic Vapor Readings: Start \_\_\_\_\_  
 @ 2' \_\_\_\_\_  
 @ 4' \_\_\_\_\_  
 @ 6' \_\_\_\_\_  
 @ 8' \_\_\_\_\_  
 @ 10' \_\_\_\_\_  
 @ \_\_\_\_\_

Soil Description: SILTY SAND  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

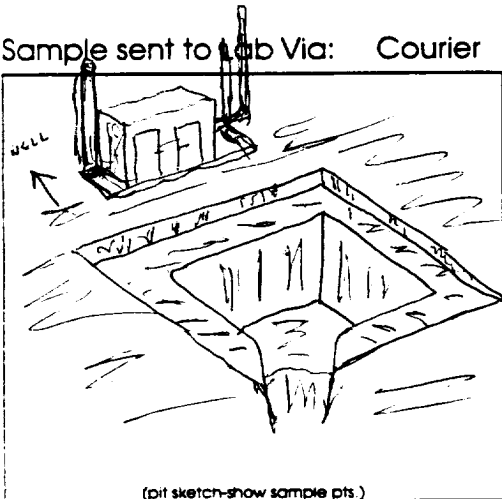
Well Proximity To: Residence, Domestic Water Well, Stock Well NONE  
 Arroyo, Wash, Lake, Stream NONE  
 Estimated or Known Distance to Ground Water >100

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

Samples collected: Type Progress: Verification: ID \_\_\_\_\_ soil / water  
 Progress: Verification: ID \_\_\_\_\_ soil / water  
 Progress: Verification: ID \_\_\_\_\_ soil / water

Sample sent to Lab Via: Courier

Hand Carried Other \_\_\_\_\_ Preservative: ICE Other \_\_\_\_\_



Comments: ~ 1/2 MILE WEST OF AMOCA JIC OFFICE — MATERIAL IS  
ONLY NEAR SURFACE — EXCAVATE + SHRED — PLACE SOIL IN LANDFARM  
WEST OF PIT — WALLS CLEAN — FLOOR HAS FAINT HYDROCARBON ODOR —  
CUT TERRACES + BERM — RAMP —

Soil Shipped to: ON-SITE  
 Prepared by: M. [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 #: 9808276

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

DATE REPORTED: 08/24/98  
DATE COLLECTED: 08/08/98  
DATE RECEIVED: 08/11/98

Reference Fraction: 9808276-02A

Sample ID: MINEL #2-V-EXFL-01 / 85578

Sample Matrix: SOIL

Sample Date Collected: 08/08/98 12:25:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	69.2	MG/KG	2.0	08/21/98	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)		86	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 #:** 9808276

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

DATE REPORTED: 08/24/98  
DATE COLLECTED: 08/08/98  
DATE RECEIVED: 08/11/98

Reference Fraction: 9808276-01A

Sample ID: MINEL #2-V-EXWA-01 / 85578

Sample Matrix: SOIL

Sample Date Collected: 08/08/98 12:21:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	ND	MG/KG	2.0	08/21/98	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)		101	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 #:** 9808765

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

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

Reference Fraction: 9808765-20A

Sample ID: JIC/MINEL #2-V-LF-01 / 85578  
Sample Date Collected: 08/21/98 17:03:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	DL	ANALYZED BY
TPH	SW846-8015	ND	MG/KG	2.0	08/28/98 SKW

ND-NONE DETECTED  
DL-DETECTION LIMIT  
SU-STANDARD UNITS  
B-DETECTED IN METHOD BLANK

APPROVED BY:

TERRY KOESTER  
LABORATORY DIRECTOR