

non-vulnerable

State of New Mexico  
Energy, Minerals and Natural Resources Department

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: Beartooth Oil & Gas (Williams Field Seivices) Telephone: (801) 584-6361  
Address: P.O. Box 58900, Salt Lake City, Utah 84158-0900  
WellName: MINEL FEDERAL #2A *E* ( 85627 )  
Location: Unit or Qtr/Qtr Sec *D* Sec 7 T 25N R 3W County Rio Arriba  
PitType Dehydrator  
LandType: Fee

Pit Location: Pit dimensions: length 13 ft., width 15 ft., depth 10 ft.  
(Attach diagram)

Reference: Wellhead

Footage from reference: 99 ft.

Direction from reference: 34 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)	<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: 8/7/98

Date Completed: 8/7/98

Remediation Method: Excavation ☒

Approx. Cubic Yard 75

(check all appropriate sections)

Landfarmed ☒Insitu Bioremediation ☐

Other Landfarmed soil after mechanical aeration. LF Headspace 8 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 MINEL #2A-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 10 Feet

Sample date 8/8/98

Sample time 13:05

Sample Result

Benzene (ppm) &lt;0.050

Total BTEX (ppm) &lt;0.050

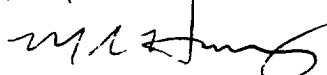
Field Headspace (ppm)

TPH (ppm) 3.85

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

SIGNATURE 

PRINTED NAME Mark Harvey for Williams Field Services  
AND TITLE PROJECT COORDINATOR

# PIT RETIREMENT FORM

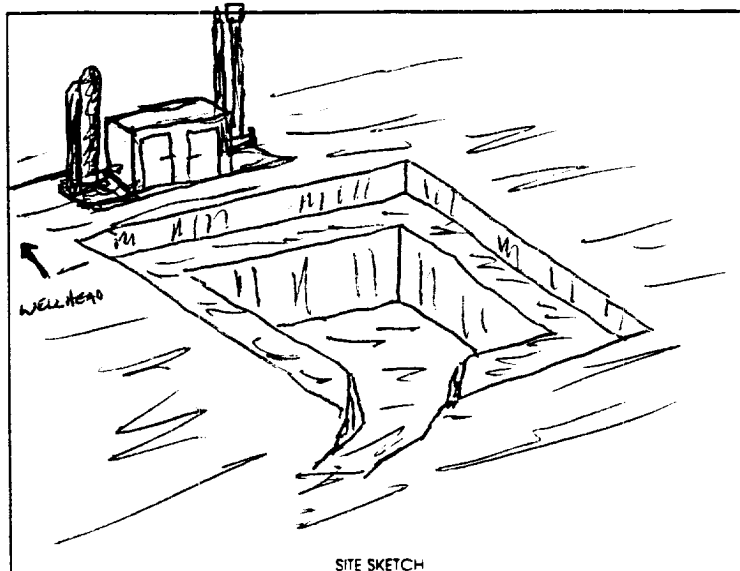
85627

Date: 8/7/98 Weather SUNNY ~ 84°  
 Well Name MINE FEO #2A Operator BEARTOOTH O+G Sec 7 T25N R3W UL D  
 Land Type: BLM STATE (FEE) INDIAN County RIO ARriba  
 One Call Made (505-765-1234)? (V) N  
 Line Marking Evident? (V) N

## Pit Location:

Reference Wellhead X Other \_\_\_\_\_  
 Distance from: 99'  
 Direction: 34 Degrees X E N X S  
 of  
 W S

Starting Pit Dimensions 10' x 12' x 1 1/2'  
 Final Pit Dimensions 13' x 15' x 10'



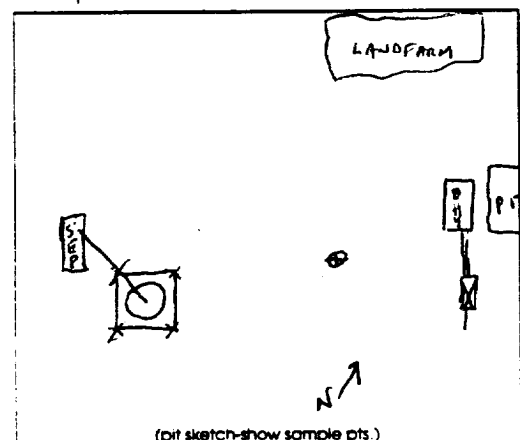
Organic Vapor Readings: Start \_\_\_\_\_ Soil Description: SILTY SAND  
 @ 2' \_\_\_\_\_  
 @ 4' \_\_\_\_\_  
 @ 6' \_\_\_\_\_  
 @ 8' \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_

Well Proximity To: Residence, Domestic Water Well, Stock Well NONE  
 Arroyo, Wash, Lake, Stream STOCK POND ~ 1/4 MILE EAST  
 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: SITE ~ 1 MILE W/ OF AMOCO OIL OFFICE — EXCAVATE  
+ SHRED SOIL — SOIL HAS MODERATE HYDROCARBON ODOR — WALLS  
CLEAR UP — FLOOR HAS FAINT HYDROCARBON ODOR — PLACE SOIL  
IN LF — CUT TERRACES + RAMP —

Soil Shipped to: ON-SITE LANDFARM  
 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 #:** 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: 9808276-03A

Sample ID: MINEL #2A-V-EXWA-01 / 85627

Sample Matrix: SOIL

Sample Date Collected: 08/08/98 13:00:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	ND	MG/KG	2.0	08/21/98	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)		114	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: 9808276-04A

Sample ID: MINEL #2A-V-EXFL-01 / 85627

Sample Matrix: SOIL

Sample Date Collected: 08/08/98 13:05:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	3.85	MG/KG	2.0	08/21/98	SKV
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	08/14/98	JLK
TOLUENE		ND	MG/KG	0.050	08/14/98	JLK
ETHYLBENZENE		ND	MG/KG	0.050	08/14/98	JLK
TOTAL XYLENES		ND	MG/KG	0.050	08/14/98	JLK
BFB (SURROGATE)		94	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

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

PROJECT: JICARILLA DISTRICT '98

Reference Fraction: 9808765-10A 85627  
Sample ID: JIC/MINEL#2A-V-LF-01 / 85267  
Sample Date Collected: 08/21/98 16:57:00 8

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