

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

State of New Mexico
Energy, Minerals and Natural Resources Department

JUN 23 1998

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

Approved
PIT REMEDIATION AND CLOSURE REPORT

Operator: Beartooth Oil & Gas (Williams Field Services) Telephone: (801) 584-6361
Address: P.O. Box 58900, Salt Lake City, Utah 84158-0900
WellName: MINEL FED. #3 (85629)
Location: Unit or Qtr/Qtr Sec M Sec 6 T 25N R 3W County Rio Arriba
PitType: Dehydrator
LandType: BLM

Pit Location: Pit dimensions: length 14 ft., width 12 ft., depth 7 ft.
(Attach diagram)

Reference: Wellhead

Footage from reference: 93 ft.

Direction from reference: 82 Degrees East of South

Depth To Ground Water:

(Vertical distance from
contaminants to seasonal
high water elevation of
ground water)

Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 points) ☐ 0

Wellhead Protection Area:

(Less than 200 feet from a private
domestic water source, or; less than 1000
feet from all other water sources)

Yes (20 points)
No (0 points) ☐ 0

Distance To Surface Water:

(Horizontal distance to perennial
lakes, ponds, rivers, streams, creeks, irrigation
canals and ditches)

Less than 200 feet (20 points)
200 feet to 1,000 feet (10 points)
Greater than 1,000 feet (0 points) ☐ 0

Ranking Score (TOTAL POINTS): ☐ 0

Date Remediation Started: 9/6/97

Date Completed: 3/26/97

Remediation Method: Excavation ☒

Approx. Cubic Yards 45

(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, mixed with fertilizer, and placed into an onsite landfarm. After remediation goals were confirmed, the soil was returned to the excavation.

Ground Water Encountered:

No

Final Pit:

Sample location Minel #3 V-EX-01

Closure Sampling:

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

A composite sample, made up of 4 points from each excavation face, was collected..

Sample depth Up to 7 feet

Sample date 9/11/96

Sample time 12:10

Sample Results

Benzene (ppm) <0.125

Total BTEX (ppm) 0.651

Field Headspace (ppm)

TPH (ppm) 88.5

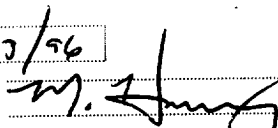
Ground Water Sample:

No

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

DATE 9/23/96

SIGNATURE

 FOR WFSPRINTED NAME
AND TITLEMARK HARVEY FOR WFS
PROJECT COORDINATOR

PIT RETIREMENT FORM

PIT RETIREMENT FORM


Date: 9-6-96 Weather: _____

Well Name MINEL FED #3 Operator BEARTOOTH O&G Sec 6 TSN R3W UL D

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: 93'

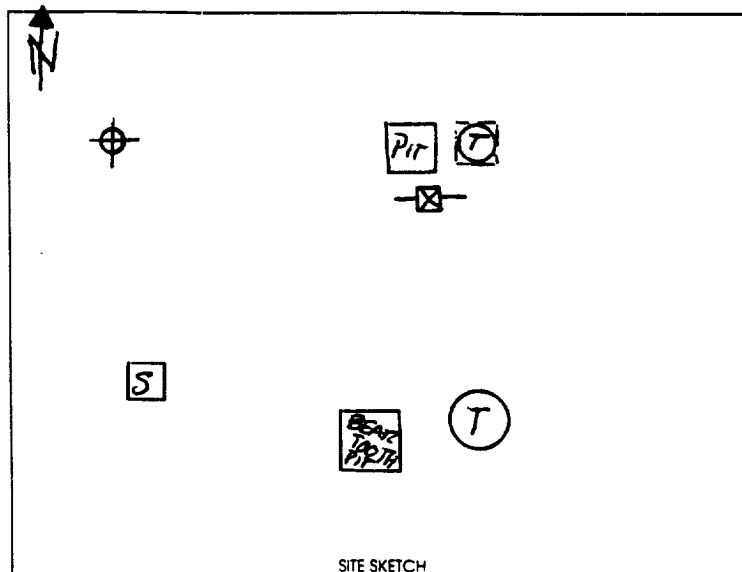
Direction: 82° Degrees X E N

of

 W S X

Starting Pit Dimensions 10' x 10' x 2'

Final Pit Dimensions 14' x 12' x 7'



Organic Vapor Readings: Start _____ Soil Description: RED-BROWN SILTY CLAY
 @ 2' _____ RED-BROWN SILTY CLAY
 @ 4' _____ " " "
 @ 6' _____ " " "
 @ 8' _____
 @ _____
 @ _____

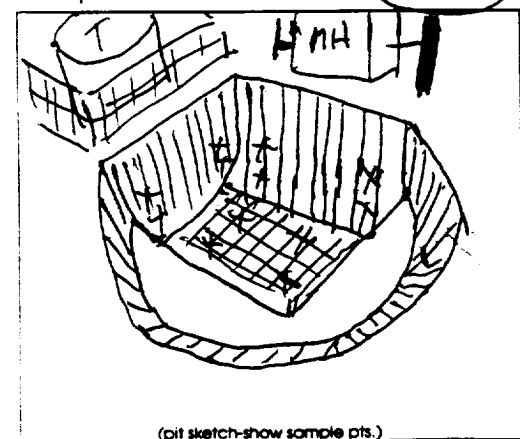
Well Proximity To: Residence, Domestic Water Well, Stock Well NONE
Arroyo, Wash, Lake, Stream ~ 350' NORTH TO SMALL (410') WASH
Estimated or Known Distance to Ground Water > 100 feet

Source of Backfill (if other than processed material) _____

Samples collected: Type Progress: Verification: ID MINEL #3 -V-EX-01 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:



Soil Shipped to: ON-SITE LANDFARM

Prepared by: A.H. *m*

UTILITY TESTING LABORATORY

875 SO. CHESTNUT ST.
P. O. BOX 25005
SALT LAKE CITY, UTAH 84125
PHONE: (801) 973-8305
FAX: (801) 973-8333

September 19, 1996

Williams Field Services
P.O. Box 58900
Salt Lake City, UT 84158-0900

Attention: Mr. Mark Harvey

Subject: DRO/BTEX Testing - Proj. - WFS JICARILLA PITS
Sample Collected: 10 Sep 1996
Sample Received: 11 Sep 1996
Comments: None

DIESEL RANGE ORGANICS (DRO)
(MODIFIED CALIFORNIA METHOD 8015)
PRACTICAL QUANTITATIVE LIMITS: 10 ppm SOIL, .5 ppm WATER

Test No.
09-11-96-31

SOIL SAMPLE
MINEL#3
V-EX-01

Test Results mg/Kg, mg/L (ppm)
88.5 mg/Kg DRO

Date Analyzed:
18 SEP 1996

BTEX
SW-846 METHOD 8020 (SOIL), METHOD 602 (WATER)
USING PURGE & TRAP METHOD 5030
PRACTICAL QUANTITATIVE LIMIT: 5 ppb SOIL, 2 ppb WATER

Test No.
09-11-96-31

SOIL SAMPLE
MINEL#3
V-EX-01

Test Results µg/Kg, µg/L (ppb)
< 125 µg/Kg Benzene
< 125 µg/Kg Toluene
< 125 µg/Kg Ethylbenzene
651 µg/Kg Xylenes, Total

Date Analyzed:
12 SEP 1996

UTILITY TESTING LABORATORY

Anne W Lewis



TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
Diesel Range Organics

Williams Field Services, Inc.

Project ID: Jicarilla Pits
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 04/18/97
Date Sampled: 03/26/97
Date Received: 03/26/97
Date Extracted: 04/09/97
Date Analyzed: 04/15/97


Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Minel Fed #3 V-LF-01	6553	ND	32.8


ND- Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	o - Terphenyl	80%	50 - 150%

Reference: EPA Method 8015A, modified. "Nonhalogenated Volatile Organics by Gas Chromatography." Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Ed, Final Update I, July, 1992. USEPA.

Comments:


Analyst


Review