District I
P.O Box 1980, Hobbs, NM

District II
P.O. Drawer DD, Artesia, NM 88210

District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Dept.

OIL CONSERVATION DIVISION
2040 S. Pacheco
Santa Fe, New Mexico 87504

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

Bennett B. Foust
DEPUTY OIL & GAS INSPECTOR
AUG 0 8 1997

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: Caulkins Oil Company **Telephone:** (505) 632-1544

Address: P.O. Box 340, Bloomfield, NM 87413

Facility or Well Name: Breech "F" 4

Location: Unit or Qtr/Qtr Sec A Sec 33 T 27N R 6W County Rio Arriba

Pit Type: Separator X Dehydrator____ Other_____

Land Type: BLM X, State____, Fee____, Other_____

Pit Location: (Attach diagram)
Pit dimensions: length 12', width 12', depth 4'
References: wellhead X, other _____
Footage from reference: 65'
Direction from reference: 135 Degrees ____ East ____ North of ____ West ____ South X

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 1000 feet	(10 points)	
	Greater than 1000 feet	(0 points)	0
		RANKING SCORE (TOTAL POINTS):	0

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DIST. 3

Date Remediation Started: 6-25-96 **Date Completed:** 11-8-96

Remediation Method: Excavation X Approx. cubic yards 254
Check all appropriate sections) Landfarmed X Insitu Bioremediation ___

Other Aeration and Dilution

Remediation Location: Onsite X Offsite ___
(ie. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Pit was excavated with backhoe until composite field headspace samples from pit was zero. Excavated soil was laid out on location in 10" lifts and rototilled periodically to aerate. Composite headspace samples from landfarm are indicated on diagram. Pit was backfilled and disturbed areas on location re-seeded.

Ground Water Encountered: No X Yes ___ Depth ___

Final Pit: Closure Sampling:
(if multiple samples, attach sample results and diagram of sample

Sample location Bottom of excavated pit and land farm.

Sample depth 12'

Sample date 10-15-96 Sample time 2:45 p.m.

Benzene (ppm) ___

Total BTEX (ppm) ___

Field headspace (ppm) Landfarm 0 bottom of pit 0

TPH Landfarm 2651.6 bottom of pit 39.0

Ground Water Sample: Yes ___ No X (If yes, attach sample results)

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

DATE 5-30-97

SIGNATURE Robert L Verquer PRINTED NAME AND TITLE ROBERT L. VERQUER, SUPERINTENDENT

ANAITAS
ENVIRONMENTAL LABS

TOTAL VOLATILE PETROLEUM HYDROCARBONS

Gasoline Range Organics

Caulkins Oil Company

Project ID:	Breech "F" Lease	Report Date:	10/23/96
Sample Matrix:	Soil	Date Sampled:	10/15/96
Preservative:	Cool	Date Received:	10/21/96
Condition:	Intact	Date Extracted:	10/22/96
		Date Analyzed:	10/22/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
4 Landfarm	5445	41.6	22.0

ND- Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	% Recovery	Acceptance Limits
Trifluorotoluene	102%	50 - 150%

Reference: Method for the Determination of Gasoline Range Organics, State of Tennessee, Department of Environment and Conservation, Division of Underground Storage Tanks.

Comments:

Analyst

Review

ANAITAS ENVIRONMENTAL LABS

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Diesel Range Organics

Caulkins Oil Company

Project ID:	Lease Breech F	Report Date:	11/07/96
Sample Matrix:	Soil	Date Sampled:	10/15/96
Preservative:	Cool	Date Received:	10/21/96
Condition:	Intact	Date Extracted:	10/29/96
		Date Analyzed:	10/31/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
4 Landfarm	5445	2,610	21.9

ND- Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	% Recovery	Acceptance Limits
o - Terphenyl	94%	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

ANAITAS
ENVIRONMENTAL LABS

TOTAL VOLATILE PETROLEUM HYDROCARBONS

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Caulkins Oil Company

Project ID:	Breech "F" Lease	Report Date:	10/23/96
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Preservative:	Cool	Date Received:	10/21/96
Condition:	Intact	Date Extracted:	10/22/96
		Date Analyzed:	10/22/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
4 Pit	5446	ND	21.9

ND- Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	% Recovery	Acceptance Limits
Trifluorotoluene	94%	50 - 150%

Reference: Method for the Determination of Gasoline Range Organics, State of Tennessee, Department of Environment and Conservation, Division of Underground Storage Tanks.

Comments:

Analyst

Review

ANAITAS
ENVIRONMENTAL LABS

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

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Caulkins Oil Company

Project ID:	Lease Breech F	Report Date:	11/07/96
Sample Matrix:	Soil	Date Sampled:	10/15/96
Preservative:	Cool	Date Received:	10/21/96
Condition:	Intact	Date Extracted:	10/29/96
		Date Analyzed:	10/31/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
4 Pit	5446	39.0	18.9

ND- Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	% Recovery	Acceptance Limits
o - Terphenyl	69%	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

Wellname Breech "F" 4 _ Caulkins Oil Company