Denny D. Foust
DEPUTY OIL & GAS INSPECTOR
AUG 0 8 1997

District I
P.O Box 1980, Hobbs, NM

District II
P.O. Drawer DD, Artesia, NM 88221

District III
1000 Rio Brazos Rd, Aztec, NM 87410

Approved

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

PIT REMEDIATION AND CLOSURE REPORT

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

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

Facility or Well Name: Breech "E" 64

Location: Unit or Qtr/Qtr Sec A Sec 1 T 26N 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 20', width 15', depth 4'

References: wellhead X, other ____

Footage from reference: 75'

Direction from reference: 165 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: 4-29-96 **Date Completed:** 10-30-96

Remediation Method: Excavation X Approx. cubic yards 148
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 8" 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. 4-15-97 - Dug hole in center of backfilled pit to obtain final soil samples from landfarmed soil used for fill dirt and 2' below bottom of excavated pit for final pit bottom sample per OCD request for final pit closure.

Ground Water Encountered: No X Yes ___ Depth _____

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

Sample location Center of backfilled pit. 4' from surface "landfarmed soil" and 10' from surface "pit bottom".

Sample depth 4' fill and 10' bottom of pit

Sample date 4-15-97 Sample time 2:30 p.m.

Benzene (ppm) 0

Total BTEX (ppm) 0 fill 1.20 pit bottom

Field headspace (ppm) _____

TPH 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

Organic Analysis - Pit Closure

Caulkins Oil Company

Project ID:	Pit Remediation	Report Date:	05/16/97
Sample ID:	Breech E 64 Fill	Date Sampled:	04/15/97
Lab ID:	6733	Date Received:	04/16/97
Sample Matrix:	Soil	Preservative:	Cool
		Condition:	Intact

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
Total Aromatic Hydrocarbons	**ND**	
Benzene	ND	0.16
Toluene	ND	0.16
Ethylbenzene	ND	0.16
m,p-Xylenes	ND	0.32
o-Xylene	ND	0.16
Total Volatile Petroleum Hydrocarbons	**ND**	**35.7**
Total Recoverable Petroleum Hydrocarbons	**ND**	**32.5**

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	100	50 - 150%
Bromofluorobenzene	104	74 - 121%
o-Terphenyl	91	50 - 150%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Recoverable Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, Final Update I, July, 1992.

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:

Review

ANAITAS ENVIRONMENTAL LABS

Organic Analysis - Pit Closure

Caulkins Oil Company

Project ID:	Pit Remediation	Report Date:	05/16/97
Sample ID:	Breech E 64 Bottom Of Pit	Date Sampled:	04/15/97
Lab ID:	6734	Date Received:	04/16/97
Sample Matrix:	Soil	Preservative:	Cool
		Condition:	Intact

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
Total Aromatic Hydrocarbons	**1.20**	
Benzene	ND	0.15
Toluene	0.21	0.15
Ethylbenzene	0.15	0.15
m,p-Xylenes	0.54	0.30
o-Xylene	0.29	0.15
Total Volatile Petroleum Hydrocarbons	**ND**	**34.3**
Total Recoverable Petroleum Hydrocarbons	**ND**	**31.2**

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	113	50 - 150%
Bromofluorobenzene	105	74 - 121%
o-Terphenyl	91	50 - 150%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Recoverable Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, Final Update I, July, 1992.

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Comments:

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Wellname Breech "E" 64

Caulkins Oil Company