

District I

P.O. Box 1980, Hobbs, NM

District II

DEPUTY OIL & GAS INSPECTOR

District III

1000 Rio Blanco Rd, Aztec, NM 87410

State of New Mexico

Energy, Minerals and Natural Resources Dept.

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

OIL CONSERVATION DIVISION

2040 S. Pacheco

Santa Fe, New Mexico 87504

Approved

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" 583-M

Location: Unit or Qtr/Qtr Sec L Sec 5 T 26N R 6W County Rio Arriba

Pit Type: Separator X Dehydrator Other

Land Type: BLM X, State , Fee , Other

Pit Location: Pit dimensions: length 15', width 15', depth 3'
(Attach diagram)

References: wellhead X, other

Footage from reference: 70'

Direction from reference: 280 Degrees East North
of
X West 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 1000 feet (10 points)
Greater than 1000 feet (0 points)

0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 6-25-96 Date Completed: 10-24-96

Remediation Method: Excavation X Approx. cubic yards 166

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. 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: Sample location Center of backfilled pit. 4' from
Closure Sampling: surface "landfarmed soil" and 10' from surface
(if multiple samples, "pit bottom".
attach sample results
and diagram of sample

Sample depth 4' fill and 10' bottom of pit

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

Benzene (ppm) 0

Total BTEX (ppm) 0

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



Organic Analysis - Pit Closure

Caulkins Oil Company

Project ID: Pit Remediation
Sample ID: Breech E 583M Fill
Lab ID: 6729
Sample Matrix: Soil

Report Date: 05/16/97
Date Sampled: 04/15/97
Date Received: 04/16/97
Preservative: Cool
Condition: Intact

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
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Total Aromatic Hydrocarbons

	ND	
Benzene	ND	0.15
Toluene	ND	0.15
Ethylbenzene	ND	0.15
m,p-Xylenes	ND	0.31
o-Xylene	ND	0.15

Total Volatile Petroleum Hydrocarbons

ND 34.7

Total Recoverable Petroleum Hydrocarbons

ND 32.9

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	104	50 - 150%
	Bromofluorobenzene	113	74 - 121%
	o-Terphenyl	100	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

Organic Analysis - Pit Closure**Caulkins Oil Company**

Project ID:	Pit Remediation	Report Date:	05/16/97
Sample ID:	Breech E 583M Bottom Of Pit	Date Sampled:	04/15/97
Lab ID:	6730	Date Received:	04/16/97
Sample Matrix:	Soil	Preservative:	Cool
		Condition:	Intact

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
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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****35.9****Total Recoverable Petroleum Hydrocarbons****ND****32.8**

Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	100	50 - 150%
	Bromofluorobenzene	110	74 - 121%
	o-Terphenyl	93	50 - 150%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Recoverable Organics;
Test Methods for Evaluating Solid Wastes, SW-846, United States
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Comments:

Review

