OK

District I
P O Box 1980, Hobbs, NM
District II
P O Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

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

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

JUN 2002 OIL CONS. DIV. DIST. 3

DEC 2002 RECEIVED OIL CONS. DIV. DIST. 3

PIT REMEDIATION AND CLOSURE REPORT

30-045-09570

Operator: Jules Petroleum Corporation Telephone: 505-748-4223

Address: 105 S 4th Street Artesia NM 88210

Facility Or: Farnsworth Gas Com A #1
Well Name

Location: Unit or Qtr/Qtr Sec B NW/4 NE/4 Sec 17 T 30N R 13W County San Juan

Pit Type: Separator ✓ Dehydrator ___ Other ___

Land Type: BLM ___, State ___, Fee ___, Other Private

Pit Location: (Attach diagram)
Pit dimensions: length 13 feet (east/west), width 18 feet (north/south), depth ~21 feet
Reference: wellhead ✓, other ___
Footage from reference: ~176.5 feet
Direction from reference: 4 Degrees ✓ East North ___ of ___ 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)	10
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):	10

Date Remediation Started: June 13, 2002 **Dated Completed:** Excavation 6-13-02 Backfill 6-14-02

Remediation Method: (Check all appropriate sections) Excavation ✓ Approx. cubic yards 200
Landfarmed ✓ Insitu Bioremediation ___
Other ___

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

General Description Of Remedial Action: Excavated separate pit to an extent of no visual staining a odor. OVM readings where greater than 100ppm, but we were at the limits of our equipment. Per Darlan Brown, Envirotech & Drew Padberg, Yates a lab sample was collected. Sample was clean. Contaminated soil was landfarmed on site. Backfilled excavated area when lab results were clean

Landfarm: 1st Lift sampled 8-1-02 2nd Lift sampled 11-13-02

Ground Water Encountered: No ✓ Yes ___ Depth ___

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

Sample location 5 point composite

Sample depth ~21 feet

Sample date June 13, 2002 Sample time 1350

Sample Results

Benzene(ppm) Not Detected at the Stated Detection Limit

Total BTEX(ppm) ~~126~~ 9.6 ppm see analysis
300 ppm bottom
953 ppm N Wall
8.2 ppm S wall
11.1 ppm East Wall

Field headspace(ppm)

TPH 217 mg/Kg

Ground Water Sample: Yes ___ No ✓ (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 June 24, 2002

SIGNATURE Jodi Saunders Lee PRINTED NAME AND TITLE Jodi Saunders Lee Environmental Scientist / Geologist
Agent for Yates Petroleum

CLIENT: Yates Petroleum

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615

PIT NO: _____

C.D.C. NO: 1001

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 00110-004
PAGE No: 1 of 1

LOCATION: NAME: Farnsworth Gas Com A WELL #: 1 PIT: Separator Pit
QUAD/UNIT: NW NE SEC: 17 TWP: 30N RNG: 13W BM: CNTY: SJ ST: NM
QTR/FOOTAGE: CONTRACTOR:

DATE STARTED: 6-13-02
DATE FINISHED: 6-14-02
ENVIRONMENTAL SPECIALIST: _____

SOIL REMEDIATION: EXCAVATION APPROX. 18 N/S FT. x 13 E/W FT. x 21 FT. DEEP.
DISPOSAL FACILITY: Farnsworth Gas Com A #1 CUBIC YARDAGE: ~200
LAND USE: _____ LEASE: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 176.5' FEET ~122° FROM WELLHEAD.
DEPTH TO GROUNDWATER: <100ft NEAREST WATER SOURCE: 0.43 miles NEAREST SURFACE WATER: La Plata River
NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 100 PPM

SOIL AND EXCAVATION DESCRIPTION:
~3' south of lines contaminated, sand to ~16' clay layers w/ sand

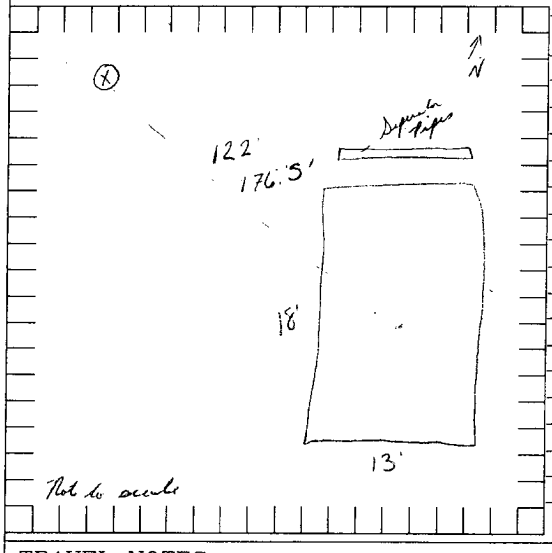
Backfilled pit June 14, 2002

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE
0 FEET

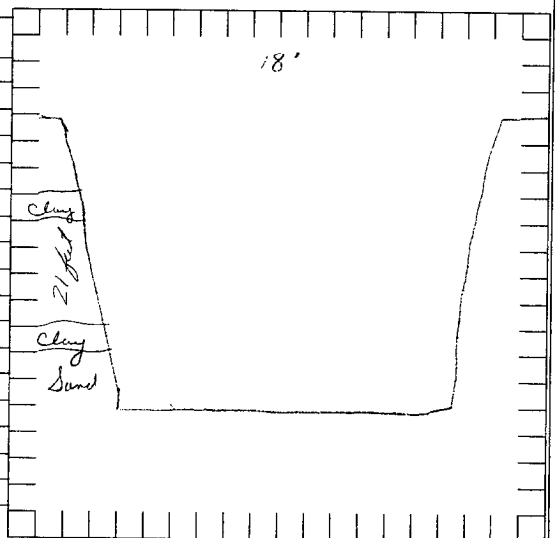
PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 S Wall	6.57 ppm
2 E Wall	11.1 ppm
3 S Wall	8.2 ppm
4 Bottom 12'	602 ppm
5 Bottom 16'	1375 ppm
Bottom 17'	1182 ppm
N Wall	9.53 ppm
Bottom 18'	300 ppm
	LAB SAMPLES

PIT PROFILE



TRAVEL NOTES: CALLOUT: _____ ONSITE: _____

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Yates Petroleum	Project #:	00110-004
Sample ID:	Separator Pit	Date Reported:	06-17-02
Laboratory Number:	23053	Date Sampled:	06-13-02
Chain of Custody:	10001	Date Received:	06-13-02
Sample Matrix:	Soil	Date Analyzed:	06-17-02
Preservative:	Cool	Date Extracted:	06-14-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**2.4**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**7.2**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**9.6**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98 %**
	1,4-difluorobenzene	**98 %**
	Bromochlorobenzene	**98 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Farnsworth Gas Unit A #1 5 Pt.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Yates Petroleum	Project #:	00110-004
Sample ID:	Separator Pit	Date Reported:	06-17-02
Laboratory Number:	23053	Date Sampled:	06-13-02
Chain of Custody No:	10001	Date Received:	06-13-02
Sample Matrix:	Soil	Date Extracted:	06-14-02
Preservative:	Cool	Date Analyzed:	06-17-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Farnsworth Gas Unit A #1 5 Pt.**

Analyst

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CHAIN OF CUSTODY RECORD

10001

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
Jobe Petroleum	Farnsworth Gas Unit A #1	
Sampler: JLS	Client No. 00110-004	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021					Remarks
Separator Pit	6-13-02	150	23053	Soil	1	✓	✓					5 pt
Oily Pit	6-13-02	1230	23054	Soil	1	✓	✓					5 pt

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Josh Saunders Lee	6-13-02	2:45		6/13/02	2:45
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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Sample Receipt	Y	N	N/A
Received Intact			
Cool - Ice/Blue Ice			

Yates Petroleum

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615

PIT No: _____
C.O.C #: _____

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 00110-004
PAGE No: 1 of 1

FACILITY LOCATION: Farnsworth Gas Com A #1 On-Site Landfarm
SOURCE LOCATION: Farnsworth Gas Com A #1 - Deby + Separator Pits
SOURCE LOCATION: Farnsworth Gas Unit B #1 - Deby, Reserve, + Separator Pits
SOURCE LOCATION: _____
FACILITY CLASSIFICATION: On-Site Landfarm PIT TYPE: _____

DATE STARTED: 6-12-02
DATE FINISHED: 11-14-02
ENVIRONMENTAL SPECIALIST: _____

SOIL REMEDIATION: QUANTITY: ~550 cubic yards # OF COMP. SAMPLES: 2
DIMENSIONS: 107.5' x 155.5' x 81.5' x 197'
VISIBLE OBSERVATIONS: Landfarm is fenced + tilled
SAMPLING PLAN: Soil laid down in two 6" lifts. Each lift sampled - 5 pt composite

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 35 YARDS 90° FROM WELLHEAD.

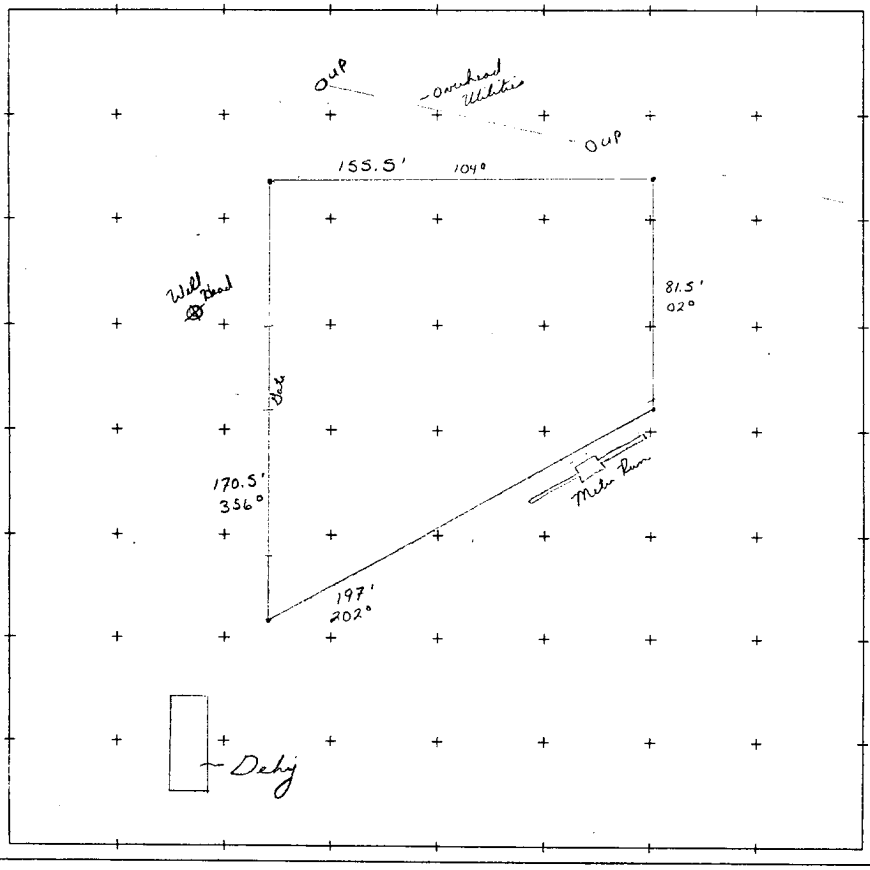
DEPTH TO GROUNDWATER: >100'
NEAREST WATER SOURCE/TYPE: La Plata Water - Domestic
NEAREST SURFACE WATER: La Plata River + Jackson Lake
MAX TPH PER NMOCD: 1000 ppm

No. OF 5-POINT COMPOSITE SAMPLES: YARDAGE - #
0-200=1
201-400=2
401-1000=3
>1000=5

1st Lift sampled + analyzed August 1, 2002
2nd Lift sampled + analyzed November 13, 2002
1st Lift put down July 2002
2nd Lift put down August 2002
Tilled every 2 weeks

FACILITY DIAGRAM

GRID SCALE:



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED:	RESULTS PPM:
1st Lift	TPH	ND
2nd Lift	TPH	ND
2nd Lift	BTEX	2.7

NORTH
WELLHEAD
SURFACE FLOW DIR.
ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Yates Petroleum	Project #:	00110-004
Sample ID:	Landfarm	Date Reported:	08-02-02
Laboratory Number:	23444	Date Sampled:	08-01-02
Chain of Custody No:	10135	Date Received:	08-01-02
Sample Matrix:	Soil	Date Extracted:	08-02-02
Preservative:	Cool	Date Analyzed:	08-02-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Farnsworth A 1 Landfarm 5 Pt. Composite.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

10135

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
Yates Petroleum	Farnsworth A1 Landfarm	

Sampler:	Client No.
JLS	00110-004

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	8015 TPH						Remarks
Landfarm	8-1-02	205	23444	Soil	1	✓						5 pt composite

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jodi L Saunders Lee	8-1-02	247		8-1-02	14:47
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Yates Petroleum	Project #:	00110-004
Sample ID:	Sample 1	Date Reported:	11-14-02
Laboratory Number:	24258	Date Sampled:	11-13-02
Chain of Custody:	10426	Date Received:	11-13-02
Sample Matrix:	Soil	Date Analyzed:	11-14-02
Preservative:	Cool	Date Extracted:	11-14-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**2.7**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**2.7**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**95 %**
	1,4-difluorobenzene	**95 %**
	Bromochlorobenzene	**95 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Farnsworth Gas Com A #1 5 Point Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Yates Petroleum	Project #:	00110-004
Sample ID:	Sample 1	Date Reported:	11-14-02
Laboratory Number:	24258	Date Sampled:	11-13-02
Chain of Custody No:	10426	Date Received:	11-13-02
Sample Matrix:	Soil	Date Extracted:	11-14-02
Preservative:	Cool	Date Analyzed:	11-14-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Farnsworth Gas Com A #1 5 Point Composite.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

10426

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
John Petroleum	Farnsworth Gas Com A #1	

Sampler:	Client No.
JLS	00110-004

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	BTEX 8021	TPH 8015					Remarks
Sample 1	11-13-02	230	24258	Soil	1	✓	✓					5 Point Composite

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jodi Saunders Lee	11-13-02	310		11/13/02	310
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		