

District I

P.O. Box 1980, Hobbs, NM

District II

DEPUTY OIL & GAS INSPECTOR

District III

1000 Rio Bragosa Rd., Azils, 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

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: BONNEVILLE FUELS CORPORATION Telephone: 303-863-1555

Address: 1660 Lincoln Street, Suite 1800, Denver, CO 80264

Facility Or: SCOTT "E" FEDERAL #15

Well Name

Location: Unit or Qtr/Qtr Sec N Sec 36 T 27N R 11W county SAN JUAN

Pit Type: Separator Dehydrator other Buried oil field waste

Land Type: BLM XX, State , Fee , other

Pit Location: Pit dimensions: length 16, width 14, depth 9
(Attach diagram)

Reference: wellhead , other See Attached

Footage from reference:

Direction from reference: Degrees East North
of
 West South

Depth To Ground Water: Less than 50 feet (20 points)
(Vertical distance from 50 feet to 99 feet (10 points)
contaminants to seasonal Greater than 100 feet (0 points) 0
high water elevation of
ground water)

Wellhead Protection Area: Yes (20 points)
(Less than 200 feet from a private No (0 points) 0
domestic water source, or; less than
1000 feet from all other water sources)

Distance To Surface Water: Less than 200 feet (20 points)
(Horizontal distance to perennial 200 feet to 1000 feet (10 points)
lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points) 0
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 0

RECEIVED
FEB 18 1997

OIL CON. DIV.
DIST. 3

Date Remediation Started: 5-23-96 Date Completed: 5-23-96

Remediation Method: Excavation _____ Approx. cubic yards 55
(Check all appropriate sections) Landfarmed _____ Insitu Bioremediation _____
other _____

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

General Description Of Remedial Action: Contamination was remediated by dilution and aeration. Contamination was either an old pit used by one of Bonneville's predecessors or buried oil field waste. Remediation procedure was witnessed and approved by Bill Liess of the Farmington District BLM.

Ground Water Encountered: No XX Yes _____ Depth _____

Final Pit: Sample location See Attached
Closure Sampling: _____
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 9'

Sample date 5-23-96 Sample time 13:00

Sample Results

Benzene (ppm) .022

Total BTEX (ppm) 6.12

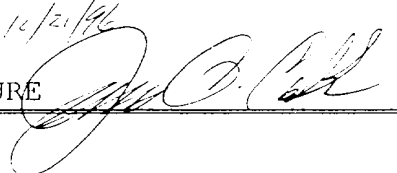
Field headspace (ppm) _____

TPH 3738 ppm by 418.1 method

Ground Water Sample: Yes _____ No XX (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 10/21/96

SIGNATURE 

PRINTED NAME
AND TITLE

JAMES O. CABLE
VICE PRESIDENT OPERATIONS

ON SITE TECHNOLOGIES, LTD.

P.O. BOX 2606, FARMINGTON, NM 87499

(505) 325-5667

DATE : 05-23-96

CLIENT : BONNEVILLE FUELS

SITE LOCATION: SCOTT "E" FEDERAL . # 15 Waste Remediation
Unit N Sec. 36, T27N, R1W, NMPM
San Juan County

CONTRACTOR: ON SITE EQUIPMENT: Trackhoe (Hitachi EX220LC)

ASSESSMENT SUMMARY

CO. #: BON 1001

LOGGER: CG/BV

JOB #: 4-1236

PAGE #: 1

START : 09:30

FINISH: 13:00

NOTES:

Remediation: Waste Pile

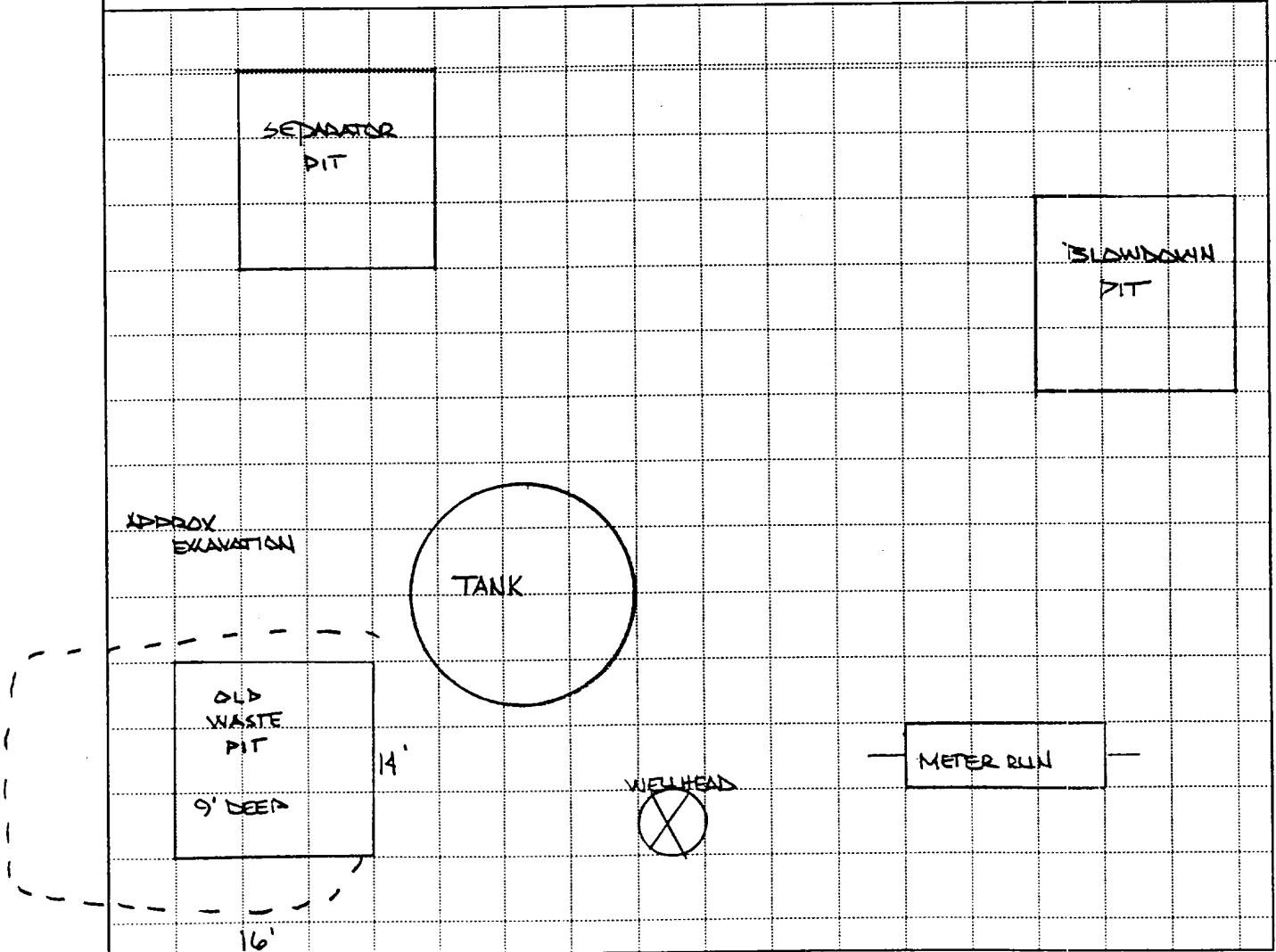
Mix Pile #1 Sample @9' (PID: 700 Units) (TPH 7,950ppm)

Mix Pile & Add Clean Soil #2 Sample (PID: 1340 Units) (TPH 7,270ppm)

Mix Pile #3 Sample (PID: 813 Units) (TPH: 3738 ppm)

TD: 9'

LAB: 3 Field TPH (418.1)



OFF: (505) 325-8786



LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Cindy Gray*
Company: *On Site Technologies, Ltd.*
Address: *612 E. Murray Drive*
City, State: *Farmington, NM 87401*

Date: *24-May-96*
COC No.: *4117*
Sample No. *11001*
Job No. *4-1286*

Project Name: *Bonneville Fuels Federal Lease*
Project Location: *Scott E Federal #15; Waste Pile after Aeration*
Sampled by: *CG* Date: *23-May-96* Time: *12:15*
Analyzed by: *DC* Date: *24-May-96*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Units of Measure	Detection Limit	Units of Measure
<i>Benzene</i>	<i>21.6</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>286.7</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>628.1</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>4091.1</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>1088.7</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
	<i>TOTAL</i>	<i>6116.2</i>		<i>ug/kg</i>

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Jack*
Date: *5/24/96*

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OFF: (505) 325-8786



LAB: (505) 325-5667

QUALITY ASSURANCE REPORT
for EPA Method 8020

Date Analyzed: 24-May-96

Internal QC No.: 0444-STD

Surrogate QC No.: 0445-STD

Reference Standard QC No.: 0355-STD

Method Blank

Analyte	Result	Units of Measure
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Analyte	Units of Measure	True Value	Analyzed Value	% Diff	Limit
Benzene	ppb	20.0	19.2	4	15%
Toluene	ppb	20.0	19.4	3	15%
Ethylbenzene	ppb	20.0	19.5	3	15%
m,p-Xylene	ppb	40.0	38.4	4	15%
o-Xylene	ppb	20.0	19.2	4	15%

Matrix Spike

Analyte	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Benzene	79	89	(39-150)	8	20%
Toluene	69	74	(46-148)	4	20%
Ethylbenzene	77	81	(32-160)	3	20%
m,p-Xylene	73	77	(35-145)	3	20%
o-Xylene	73	76	(35-145)	3	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovery	(70-130)	
11001-4117	109	

S1: Flourobenezene

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CHAIN OF CUSTODY RECORD

TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

[illegible]

Distribution:	White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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5/23

SEF #18

arr 9 am

sample blowdown @ 3.5'

Bill Liese (BLM) on site @ 10:00

SEP #15 commence dig on waste @ 9:35

14 X 16 X 9

+ 14 X 10 X 6 for clean

mix for 1 hr.

11:00 sample taken from stockpile

PID 900 units TPH (418.1) 7,950 ppm

continue to mix & add clean

11:40 sample

PID 1340 units

12:20 sample

PID 813 units TPH 3738 ppm

Back fill pit & move to

25-14 @ 1300

OFF: (505) 325-8786



LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

Attn: *Cindy Gray*
Company: *On Site Technologies, Ltd.*
Address: *612 E. Murray Drive*
City, State: *Farmington, NM 87401*

Date: *14-Jun-96*
COC No.: *Field*
Sample No. *Analysis*
Job No. *4-1286*

Project Name: *Bonneville Fuels - Scott E Federal #15*
Project Location: *Buried Waste; Sample #1*
Sampled by: *BV* Date: *23-May-96* Time: *11:00*
Analyzed by: *BV* Date: *23-May-96*
Sample Matrix: *Soil*

Field Analysis

Parameter	Result	Detection Limit	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	7610	25	mg/kg	EPA Method 418.1

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	< 25	< 25	mg/kg
Laboratory Fortified Spike Soil - QCSS1	963	828 - 1024	mg/kg

Duplication

Laboratory Identification	(% RSD)	Limit (% RSD)
Buried Waste; Sample #1	6.3	15.0

Approved by: *JK*

Date: *6/14/96*

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OFF: (505) 325-8786



LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

Attn: *Cindy Gray*
Company: *On Site Technologies, Ltd.*
Address: *612 E. Murray Drive*
City, State: *Farmington, NM 87401*

Date: *14-Jun-96*
COC No.: *Field*
Sample No. *Analysis*
Job No. *4-1286*

Project Name: *Bonneville Fuels - Scott E Federal #15*
Project Location: *Buried Waste; Sample #2*
Sampled by: *BV* Date: *23-May-96* Time: *11:50*
Analyzed by: *BV* Date: *23-May-96*
Sample Matrix: *Soil*

Field Analysis

<i>Parameter</i>	<i>Result</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>	<i>Method</i>
<i>Total Petroleum Hydrocarbons, TPH</i>	<i>3738</i>	<i>25</i>	<i>mg/kg</i>	<i>EPA Method 418.1</i>

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

<i>Laboratory Identification</i>	<i>Analyzed Value</i>	<i>Acceptable Range</i>	<i>Unit of Measure</i>
<i>Laboratory Fortified Blank Soil - QCBS2</i>	<i>< 25</i>	<i>< 25</i>	<i>mg/kg</i>
<i>Laboratory Fortified Spike Soil - QCSS1</i>	<i>963</i>	<i>828 - 1024</i>	<i>mg/kg</i>

Duplication

<i>Laboratory Identification</i>	<i>(% RSD)</i>	<i>Limit (% RSD)</i>
<i>Buried Waste; Sample #1</i>	<i>6.3</i>	<i>15.0</i>

Approved by: *[Signature]*
Date: *6/14/96*

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