

District 1
P.O. Box 1899, Hobbs, NM
District 1
Dis. OIL & GAS INSPECTOR
P.O. Drawer DD, Artesia, NM 88211

District 1
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

(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 #25-14
Well Name

Location: Unit or Qtr/Qtr sec SW M sec 25 T 27 R 11 county SAN JUAN

Pit Type: Separator XX Dehydrator other

Land Type: BLM XX, State , Fee , Other

Pit Location: Pit dimensions: length 25; 30, width 21; 28, depth 18; 32
(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: 8/26/94; 5/24/96 Date Completed: 8/26/94; 5/24/96

Remediation Method: Excavation XX Approx. cubic yards 350
(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. Remediated soil was backfilled into remediated pit. A below grade fiberglass tank was emplaced in the same location as old earthen pit as per NMOCD guidelines. Pit was sampled approximately 1-1/2 years after initial remediation to supply BTEX values for bottom of pit and backfill composite. Sampling was done with a truck mounted Geoprobe which auger drilled to just below the old TD of the remediated pit. Several samples were taken off the auger while drilling to TD and were taken as representative of the backfill. The TD

sample was either taken off the raised auger or with a split spoon. Pit was sampled in May 1996 and found to have contamination above Closure Guidelines. Pit was re-excavated and remediated on site by dilution and aeration to NMOCD/BLM standards.

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 18'; 32'; 28'

Sample date 8/26/94; 5/23/96 Sample time 1:30:00; 16:45

Sample Results

Benzene (ppm) .002

Total BTEX (ppm) 1.22

Field headspace (ppm) TD 32' (PID, 30.2 units); TD 28' (PID, 25.8 units)

TPH @ 15' = 610; Backfill @ 15' = 352, 401, 369, 308, 282; Backfill from 32' = 28.8 (8015 method)
TPH @ 28' & 32' = 5.0 (8015 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 10/19/96

SIGNATURE

PRINTED NAME
AND TITLE

James O. Cable
Vice President Operations

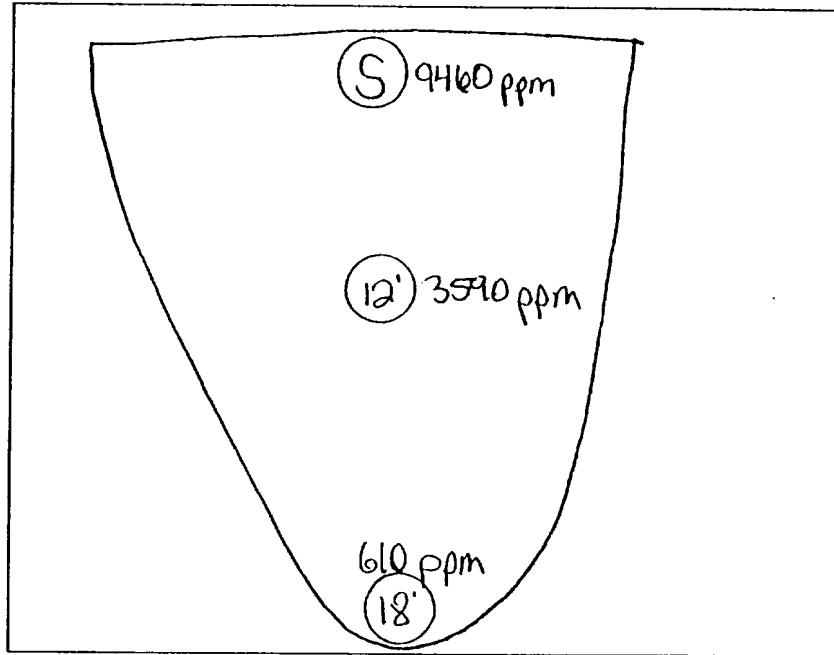
FINAL PIT CLOSURE SAMPLING REPORT

Operator: BONNEVILLE FUELS CORPORATION Telephone: (505) 632-9876
 Address: 310 NORTH FIRST STREET, BLOOMFIELD, NM 87413
 Facility Or: SCOTT "E" FEDERAL #25-14
 Well Name _____
 Location: Unit or Qtr/Qtr Sec SW Sec 25 T 27 R 11 County SAN JUAN

Depth **TPH**

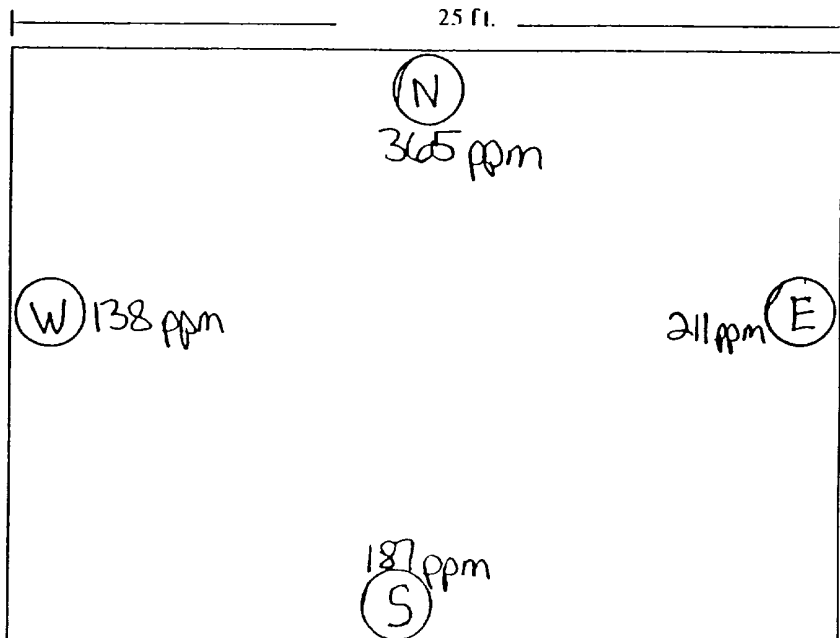
Surface	9460 ppm
2 ft.	ppm
4 ft.	ppm
6 ft.	5480 ppm
8 ft.	ppm
10 ft.	ppm
12 ft.	3590 ppm
14 ft.	ppm
16 ft.	ppm
18 ft.	610 ppm
20 ft.	ppm
ft.	ppm
ft.	ppm
ft.	ppm

SIDE VIEW



TOP VIEW

North Side	365 ppm
East Side	211 ppm
South Side	187 ppm
West Side	138 ppm

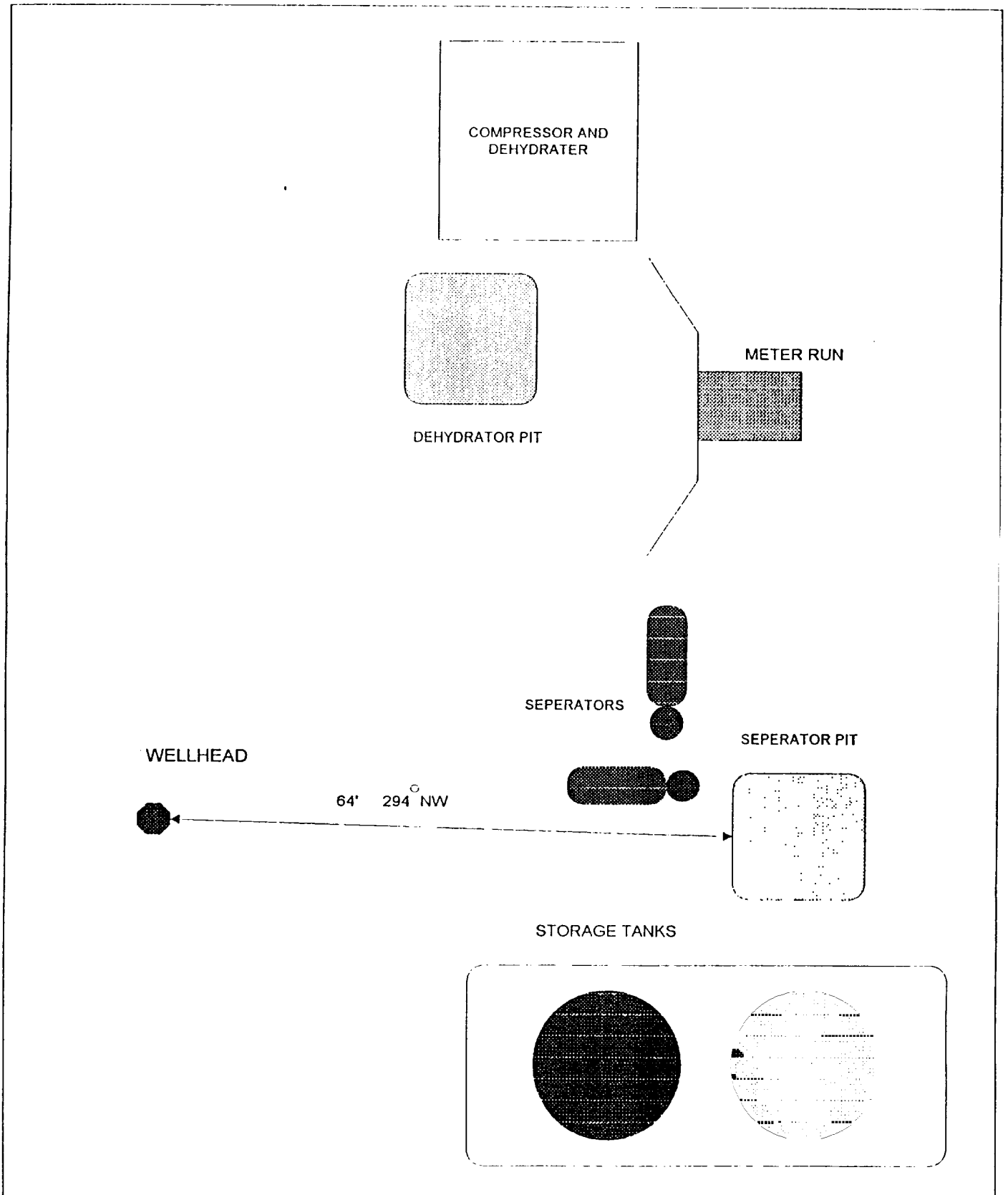


North



21 ft.

BONNEVILLE FUELS CORPORATION
SCOTT "E" FEDERAL # 25-14



ON SITE TECHNOLOGIES, LTD.
P.O. BOX 2606, FARMINGTON, NM 87499
(505) 325-5667

DATE : 05-21-96

CLIENT : BONNEVILLE FUELS

SITE LOCATION : SCOTT 'E' FEDERAL . #25-14
Unit M Sec. 25, T27N, R1W, NMPM
San Juan County

CONTRACTOR : ON SITE EQUIPMENT : GEOPROBE (2" AUGER w/ Split Spoon)

ASSESSMENT SUMMARY

CO. # : BON1001

LOGGER : BV

JOB # : 4-1286

PAGE # : 1

START : 16:15

FINISH : 16:40

NOTES:

One pit assessed: Separator

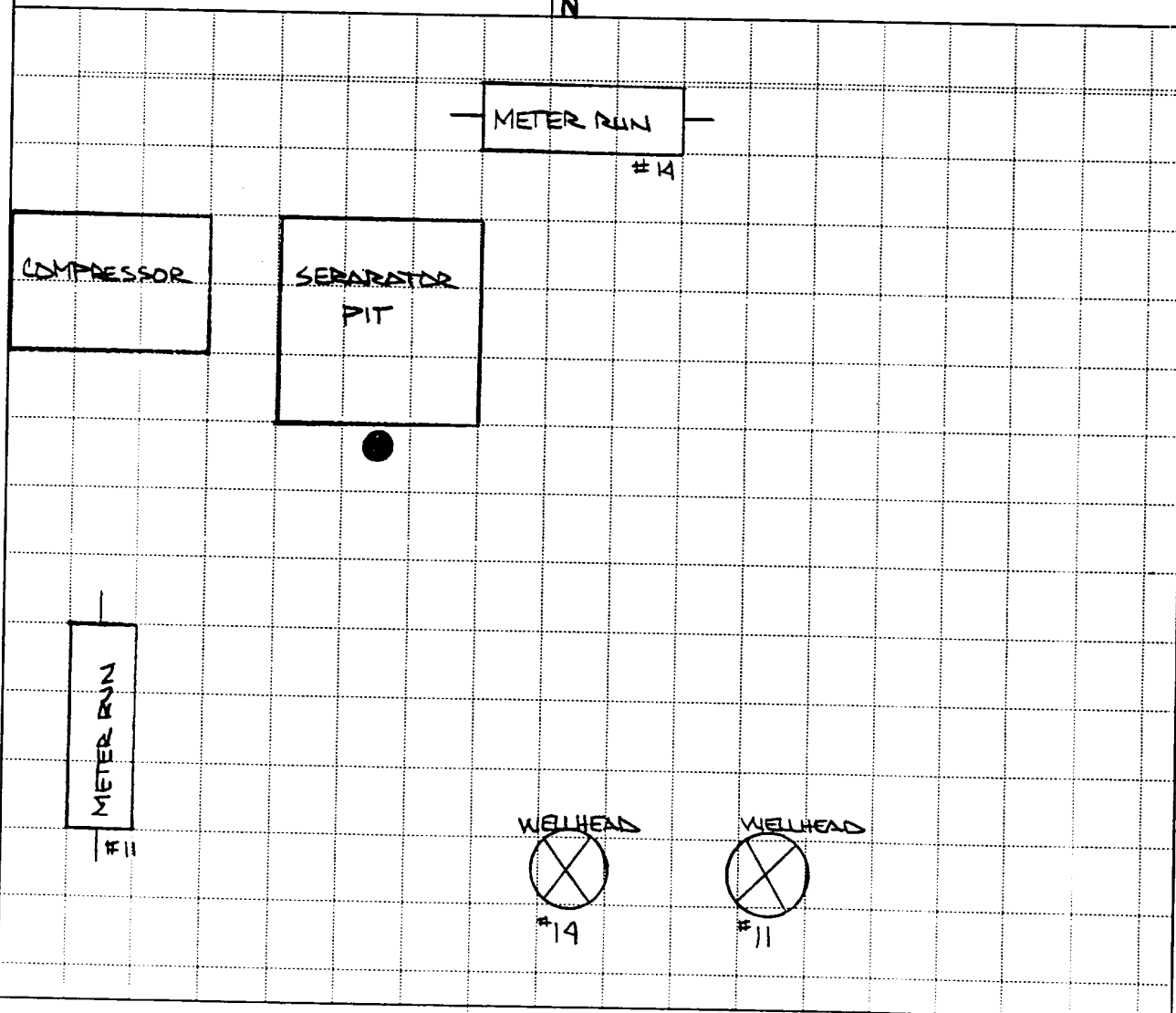
Separator Composite: 7'-15' (PID: 1210 Units)

Separator Grab: 18' (PID: > 2500)

TD: 18'

LAB: (EPA 8020)

1
N



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: *22-May-96*
COC No.: *4112*
Sample No. *10969*
Job No. *2-1000*

Project Name: *Bonneville Fuels Federal Lease*
Project Location: *Scott 'E' No. ~~14~~ 25-14*
Sampled by: *BV*
Analyzed by: *HR*
Sample Matrix: *Soil*

Date: *21-May-96* Time: *16:10*
Date: *22-May-96*

Laboratory Analysis

Component	Result	Units of Measure	Detection Limit	Units of Measure
<i>Benzene</i>	1999.6	ug/kg	0.2	ug/kg
<i>Toluene</i>	3597.2	ug/kg	0.2	ug/kg
<i>Ethylbenzene</i>	6951.0	ug/kg	0.2	ug/kg
<i>m,p-Xylene</i>	45343.9	ug/kg	0.2	ug/kg
<i>o-Xylene</i>	4718.9	ug/kg	0.2	ug/kg
	TOTAL	62610.6	ug/kg	

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

Approved by: *Ja G*
Date: *5/22/96*

P. O. BOX 2606 • FARMINGTON, NM 87499

~ TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT ~

OFF: (505) 325-8786



LAB: (505) 325-5667

QUALITY ASSURANCE REPORT
for EPA Method 8020

Date Analyzed: 22-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	18.6	7	15%
Toluene	ppb	20.0	18.9	5	15%
Ethylbenzene	ppb	20.0	18.9	6	15%
m,p-Xylene	ppb	40.0	37.3	7	15%
o-Xylene	ppb	20.0	18.8	6	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)	
10967-4112	97	
10968-4112	101	
10969-4112	105	

S1: Fluorobenzene

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



CHAIN OF CUSTODY RECORD

4112

Page 1 of 1

Date: 5/21/96

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

Purchase Order No.:		Job No.		Name		Title	
SEND INVOICE TO		Company		Company			
Address		Dept.		Mailing Address			
City, State, Zip				City, State, Zip			
Sampling Location:				Telephone No.		Telefax No.	
Sampler:				ANALYSIS REQUESTED			
SAMPLE IDENTIFICATION		DATE		TIME		PRES.	
1st Sample - 1st Pit		5/21/96		10:45		S-1	
2nd Sample - 2nd Pit		5/21/96		11:20		S-1	
3rd Sample - 3rd Pit		5/21/96		12:10		S-1	
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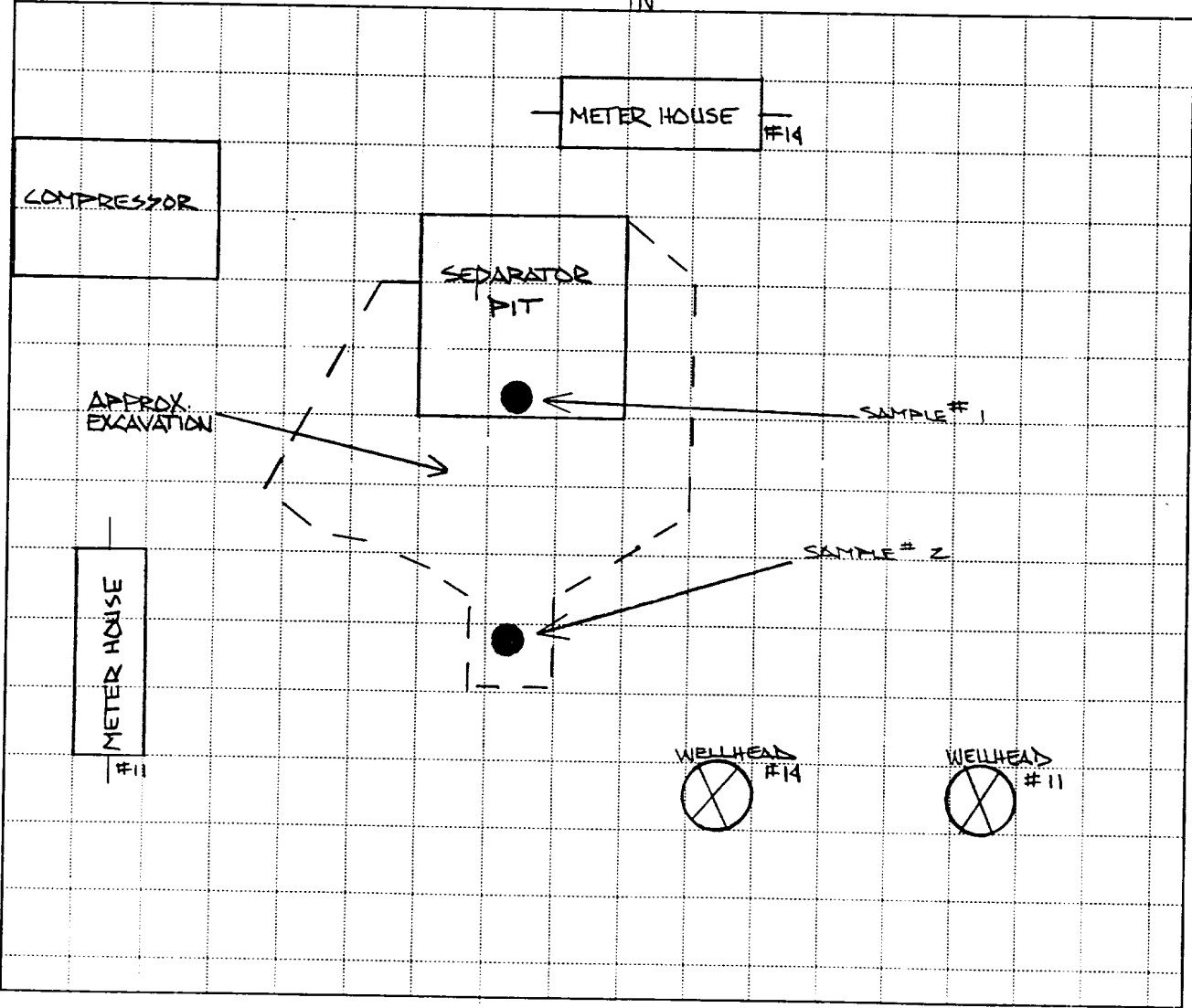
DATE : 05-23-96
CLIENT : BONNEVILLE FUELS
SITE LOCATION: SCOTT 'E' FEDERAL . #25- 14
Unit M Sec. 25, T27N, R11W, NMPM
San Juan County
CONTRACTOR: ON SITE EQUIPMENT: Trackhoe (Hitachi EX220LC)

ASSESSMENT SUMMARY

CO. #: BON1001 LOGGER: CG
JOB #: 4-1286 PAGE #: 1
START: 13:10 FINISH: 16:45

NOTES:
Remediation: Separator
Pit Closure Sample #1: @32' (PID:30.2 Units)
Pit Closure South Trench Sample # 2 @28' (PID:25.8 Units)
TD: 32'

LAB:(TPH 8015 MOD.) Both Samples



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: *29-May-96*
COC No.: *4122*
Sample No. *11008*
Job No. *4-1286*

Project Name: *Bonneville Fuels Federal Lease*
Project Location: *Scott E Federal #25-14; Treated Stockpile Composite*
Sampled by: *CG/ML* Date: *24-May-96* Time: *9:40*
Analyzed by: *DC* Date: *28-May-96*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Units of Measure	Detection Limit	Units of Measure
<i>Benzene</i>	2.0	ug/kg	0.2	ug/kg
<i>Toluene</i>	154.3	ug/kg	0.2	ug/kg
<i>Ethylbenzene</i>	87.1	ug/kg	0.2	ug/kg
<i>m,p-Xylene</i>	814.6	ug/kg	0.2	ug/kg
<i>o-Xylene</i>	171.9	ug/kg	0.2	ug/kg
	TOTAL	1229.9	ug/kg	

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

Approved by: *[Signature]*
Date: *5/29/96*

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-8786



LAB: (505) 325-5667

QUALITY ASSURANCE REPORT
for EPA Method 8020

Date Analyzed: 28-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	19.9	0	15%
Toluene	ppb	20.0	20.0	0	15%
Ethylbenzene	ppb	20.0	20.1	0	15%
m,p-Xylene	ppb	40.0	39.6	1	15%
o-Xylene	ppb	20.0	19.9	0	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)	
11008-4122	102	
11009-4122	101	
11010-4122	96	
11011-4122	96	

S1: Fluorobenzene

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



CHAIN OF CUSTODY RECORD

4122

Date: 5-25-96 Page 1 of 1

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

Purchase Order No.:		Job No. <u>4-1286</u>		Name <u>Cindy Gray</u>		Title	
SEND INVOICE TO		Company <u>for Bonneville Fuels</u>		Company <u>for Bonneville Fuels</u>			
Address		Dept.		Mailing Address			
City, State, Zip				City, State, Zip			
Sampling Location:				Telephone No.		Telefax No.	
Sampler: <u>Cindy Gray / Mike Lane</u>		Number of Containers		ANALYSIS REQUESTED			
SAMPLE IDENTIFICATION		SAMPLE DATE		MATRIX		PRES.	
Scott E. Federal # 25-141		5/24 0940		Soil		4°C	
Treated Stockpile Composite		✓		(PID 218 units)		11008-4122	
Scott E. Federal # 13		5/24 1620		Soil		4°C	
Treated Stockpile Composite		✓		(PID 228 units)		11009-4122	
Fullerton Federal # 6E		5/25 1015		Soil		4°C	
Treated Stockpile Composite # 1		✓		(PID 583 units)		11010-4122	
Fullerton Federal # 6E		5/25 1030		Soil		4°C	
Treated Stockpile Composite # 2		✓		(PID 1026 units)		11011-4122	
Relinquished by: <u>Cathy A. Ay</u>		Date/Time <u>5/28/96 0230</u>		Received by: <u>DC</u>		Date/Time <u>5/28/96 0730</u>	
Relinquished by:		Date/Time		Received by:		Date/Time	
Relinquished by:		Date/Time		Received by:		Date/Time	
Method of Shipment:		Rush		24-48 Hours		10 Working Days	
Special Instructions:							
Authorized by: <u>Cathy A. Ay</u>		Date <u>5/28/96</u>		(Client Signature Must Accompany Request)			

Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client

OFF: (505) 325-8786



LAB: (505) 325-5667

TPH - Gasoline / Diesel Range Organics

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

Date: *30-May-96*
COC No.: *4122*
Sample No. *11008*
Job No. *4-1286*

Project Name: *Bonneville Fuels Federal Lease*
Project Location: *Scott E Federal #25-14; Treated Stockpile Composite*
Sampled by: *CG/ML* Date: *24-May-96* Time: *9:40*
Analyzed by: *DC* Date: *29-May-96*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Gasoline Range Organics (C5 - C9)	23.1	mg/kg	5.0	mg/kg
Diesel Range Organics (C10 - C28)	5.8	mg/kg	5.0	mg/kg
TOTAL	28.8	mg/kg		

Quality Assurance Report

GRO QC No.: *0461-STD*

DRO QC No.: *0475-STD*

Calibration Check

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Gasoline Range (C5 - C9)	<50	ppb	1,080	1,198	10.9	15%
Diesel Range (C10 - C28)	<5.0	ppm	2,000	1,883	5.9	15%

Matrix Spike

Parameter	1- Percent Recovered	2- Percent Recovered	Limit	%RSD	Limit
Gasoline Range (C5-C9)	94	80	(70-130)	11	20%
Diesel Range (C10-C28)	117	106	(70-130)	7	20%

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: *[Signature]*
Date: *5/30/96*

P. O. BOX 2606 • FARMINGTON, NM 87499

TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-8786



LAB: (505) 325-5667

TPH - Gasoline / Diesel Range 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. **11002**
 Job No. **4-1286**

Project Name: **Bonneville Fuels Federal Lease**
 Project Location: **Scott E Federal 25-14 Pit; Total Depth Pit Center 32'**
 Sampled by: **CG** Date: **23-May-96** Time: **15:45**
 Analyzed by: **DC** Date: **24-May-96**
 Sample Matrix: **Soil**

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Gasoline Range Organics (C5 - C9)	<5.0	mg/kg	5.0	mg/kg
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
	TOTAL	<5.0		mg/kg

Quality Assurance Report

GRO QC No.: **0461-STD**
 DRO QC No.: **0475-STD**

Calibration Check

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Gasoline Range (C5 - C9)	<50	ppb	1,080	1,147	6.2	15%
Diesel Range (C10 - C28)	<5.0	ppm	2,000	1,906	4.7	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Gasoline Range (C5-C9)	94	80	(70-130)	11	20%
Diesel Range (C10-C28)	117	106	(70-130)	7	20%

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

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

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TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-8786



LAB: (505) 325-5667

TPH - Gasoline / Diesel Range 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. *11003*
 Job No. *4-1286*

Project Name: *Bonneville Fuels Federal Lease*
 Project Location: *Scott E Federal 25-14 Pit; South Trench Bottom 28'*
 Sampled by: *CG* Date: *23-May-96* Time: *16:30*
 Analyzed by: *DC* Date: *24-May-96*
 Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Gasoline Range Organics (C5 - C9)	< 5.0	mg/kg	5.0	mg/kg
Diesel Range Organics (C10 - C28)	< 5.0	mg/kg	5.0	mg/kg
	TOTAL	< 5.0		mg/kg

Quality Assurance Report

GRO QC No.: *0461-STD*
 DRO QC No.: *0475-STD*

Calibration Check

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Gasoline Range (C5 - C9)	< 50	ppb	1,080	1,147	6.2	15%
Diesel Range (C10 - C28)	< 5.0	ppm	2,000	1,906	4.7	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Gasoline Range (C5-C9)	94	80	(70-130)	11	20%
Diesel Range (C10-C28)	117	106	(70-130)	7	20%

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: *[Signature]*
 Date: *5/24/96*

P. O. BOX 2606 • FARMINGTON, NM 87499

TECHNOLOGY BINDING INDUSTRY WITH THE ENVIRONMENT

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: Fluorobenzene

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

ON SITE

TECHNOLOGIES, LTD.

[illegible]

Distribution:	White - On Site	Yellow - LAB	Pink - Sampler	Goldenrod - Client
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