

District I

P.O. Box 100, Hobbs, NM

District II

P.O. Box 100, Hobbs, NM

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

(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 #23-42
Well Name

Location: Unit or Qtr/Qtr Sec NE H Sec 23 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 15, width 21, depth 8
(Attach diagram)

Reference: wellhead , other See Attached

Footage from reference:

Direction from reference: 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) <u>C</u>

Wellhead Protection Area:
(Less than 200 feet from a private
domestic water source, or; less than
1000 feet from all other water sources)

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DIST. 3

Yes	(20 points)
No	(0 points) <u>0</u>

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) <u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 9/7/94 Date Completed: 9/7/94

Remediation Method: Excavation XX Approx. cubic yards _____
(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 remediated a second time after it was discovered that the fiberglass tank was cracked and leaking. Impenetrable sandstone was encountered at 8'. PID readings at TD and of the composite soil after mixing was less than 100 ppm and the TPH less than 5000 ppm.

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 8'; 8'

Sample date 9/7/94; 5-22-96 Sample time 4:00:00; 13:15

Sample Results

Benzene (ppm) .007 (1st remediation)

Total BTEX (ppm) 4.6 (1st remediation)

Field headspace (ppm) Composite 1-5' (PID, 239 units);

TD 8' (PID, 2500 units); 2nd remediation TD @ 8' sandstone (PID, 23.4 units) Backfill composite (PID, 31.9 units).

TPH @ 8' = 764; Backfill = 473, 695, 703, 736. 2nd remediation

TD = 77.6; Backfill = 544.4

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 9/7/94

SIGNATURE James O. Cable

PRINTED NAME
AND TITLE

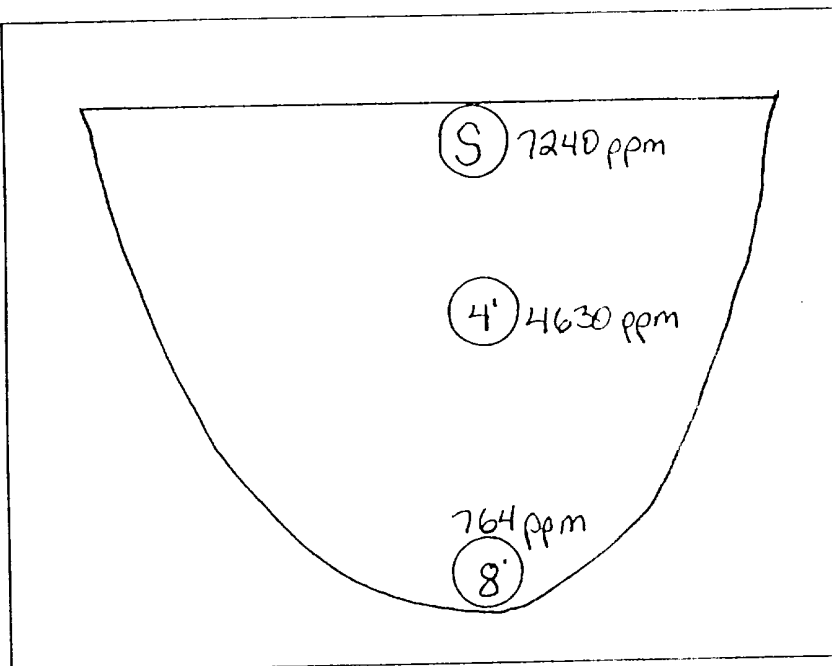
James O. Cable
Vice President Operations

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 #23-42
 Well Name _____
 Location: Unit or Qtr/Qtr Sec _____ Sec _____ T _____ R _____ County SAN JUAN

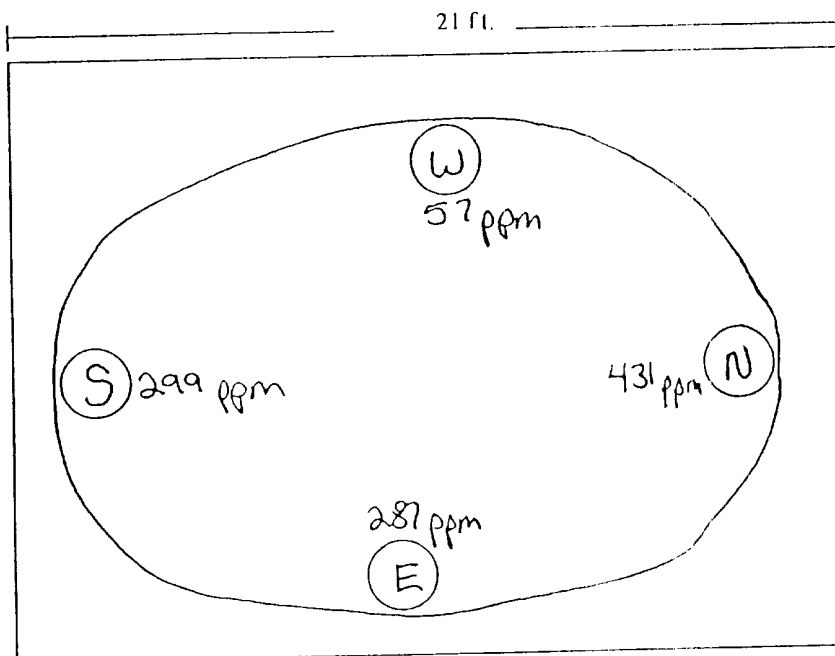
Depth	TPH
Surface	7240 ppm
2 ft.	ppm
4 ft.	4630 ppm
6 ft.	ppm
8 ft.	764 ppm
10 ft.	ppm
12 ft.	ppm
14 ft.	ppm
16 ft.	ppm
18 ft.	ppm
20 ft.	ppm
ft.	ppm
ft.	ppm
ft.	ppm

SIDE VIEW



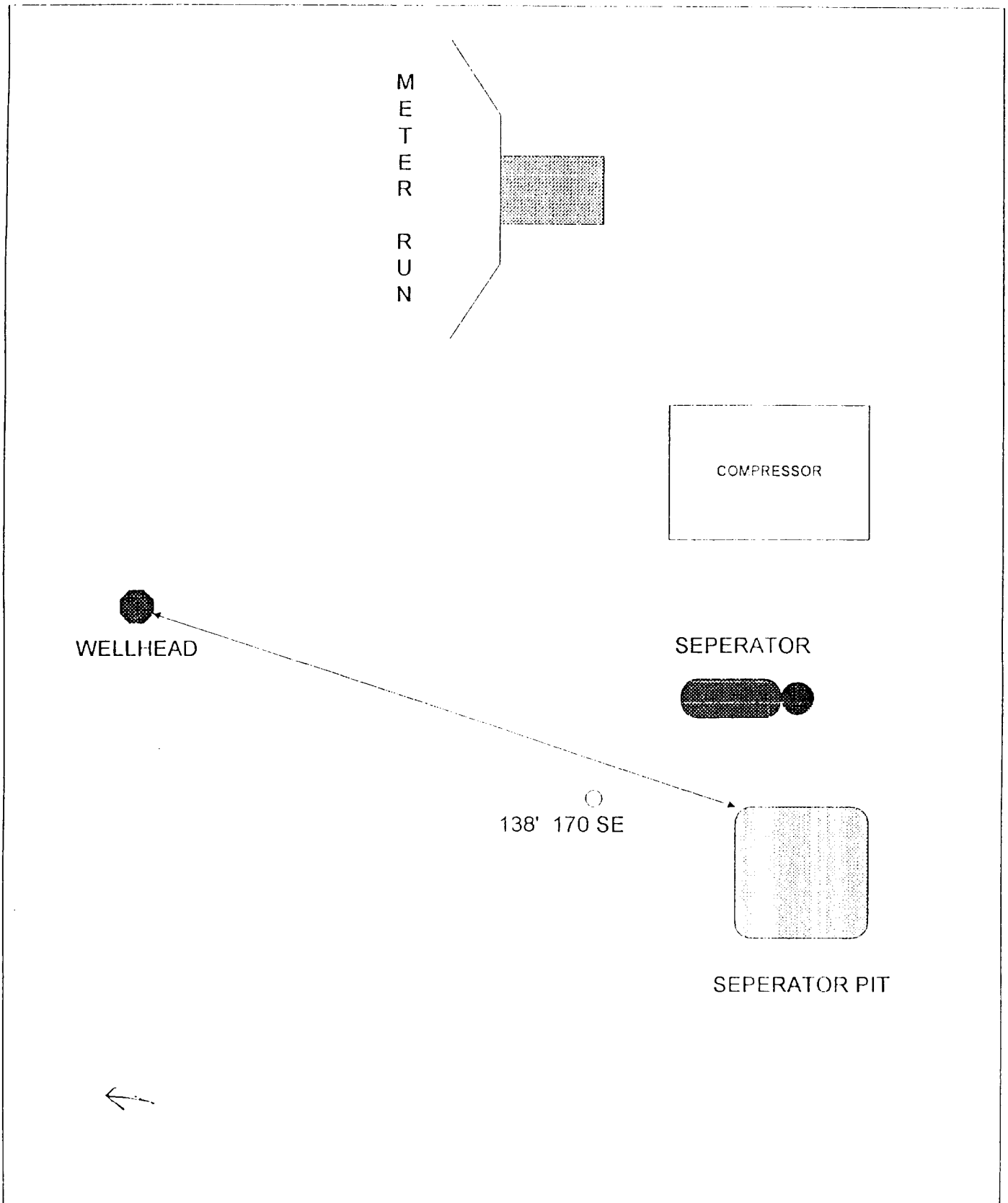
TOP VIEW

North Side	431 ppm
East Side	287 ppm
South Side	299 ppm
West Side	57 ppm



BONNEVILLE FUELS CORPORATION

SCOTT "E" FEDERAL #23-42



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

DATE: 05-22-96

CLIENT: BONNEVILLE FUELS

SITE LOCATION: SCOTT "E" FEDERAL #23-42
Unit H Sec .23, T27N, R1W, NMPM
San Juan County

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

ASSESSMENT SUMMARY

CO. #: BON1001

LOGGER: BC

JOB #: 4-1286

PAGE #: 1

START: 12:10

FINISH: 13:15

NOTES:

One pit assessed: Separator
Separator Composite: 1'-5' (PID: 239 Units)
Separator Grab: 8' (PID: 2500 Units)
TD: 8'

LAB: EPA (8020)

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N

WELL HEAD



METER RUN

COMPRESSOR

SEPARATOR
PIT



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.: *4114*
Sample No. *10983*
Job No. *4-1286*

Project Name: *Bonneville Fuels Federal Lease*
Project Location: *Scott E Federal 23-42 TD*
Sampled by: *CG*
Analyzed by: *DC*
Sample Matrix: *Soil*

Date: *22-May-96* Time: *12:45*
Date: *23-May-96*

Laboratory Analysis

Parameter	Result	Units of Measure	Detection Limit	Units of Measure
<i>Benzene</i>	6.8	ug/kg	0.2	ug/kg
<i>Toluene</i>	273.5	ug/kg	0.2	ug/kg
<i>Ethylbenzene</i>	462.1	ug/kg	0.2	ug/kg
<i>m,p-Xylene</i>	3455.2	ug/kg	0.2	ug/kg
<i>o-Xylene</i>	397.4	ug/kg	0.2	ug/kg
	<i>TOTAL</i>	4595.0	ug/kg	

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

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

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Protecting People and the Environment

OFF: (505) 325-8786



LAB: (505) 325-5667

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 23-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)	
10983-4114	123	
10984-4114	100	

S1: Fluorobenzene

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TECHNOLOGICAL RESEARCH INDUSTRIES, INC.

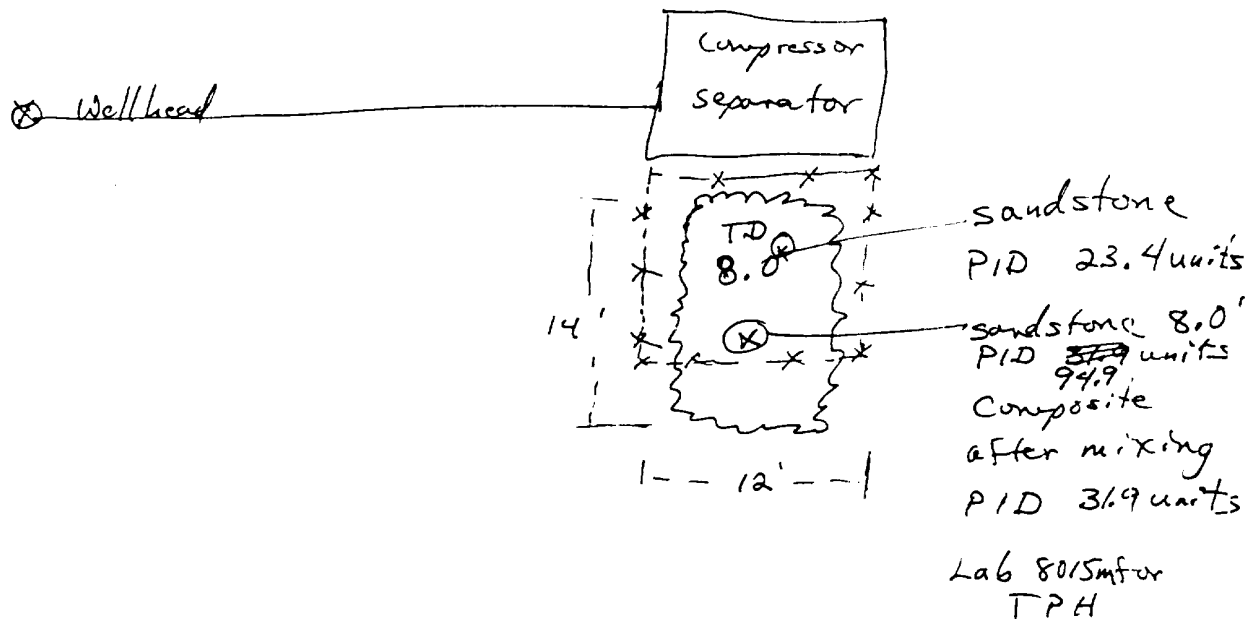
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Page _____ of _____

Date: 5.22.96

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

Distribution:	White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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SITE SKETCH

DATE: 5-28-96

JOB #: 4-1286

CO #: BON/001

TIME IN: 1445

TIME OUT: 1600

WELL #: SEF 23-42

SEC: _____, T- _____, R- _____

ON SITE PERSONNEL: C Gray

Composite after mixing

TYPE ANALYSES REQUIRED: 8015 m/PID DEPTH: 8.0' MATRIX: Soils

NOTES: D.g.-out after discovery of leaking fiberglass tank/pit.
Soil stained but little odor noted. Excavate approx. 2.5 cu. y.
net of pit tank volume. Sample taken at sandstone bottom.
Soil mixed w/ clean. Composite sample taken (PID and 8015m TPH)

DATE 5-28-96

ONE LOCATION ONLY

B I L L T O	Bonneville Fuels		L O C A T I O N	Bonneville Fuels
				Scott E Federal 23-42
	PHONE			

CONTACT PERSON	CUSTOMER'S P.O. NO.	ON SITE REFERENCE
		4-1286

FROM	TO	HOURS	DESCRIPTION
1400	1445		Load & leave. Travel to S.E.F. 23-42 (39817)
1445			Arr site. Commence dig to sandstone and south of main pit. Spoil sampled @ sandstone 23.4 units on P.I.D. Spoil mixed w/ clean. Composite sample taken of stockpile. To Lab for 8015M.
	1600		Lv. site for lab. LSR reconstructing pit area.
1600	1700		Travel back to lab. Fill out Chain of Custody and order analyses.

NAME	TITLE	HOURS	RATE	AMOUNT	EQUIPMENT or vehicle	UNIT NO.	HOURS or mileage	RATE	AMOUNT
C. Gray	Site Supvr.	3.0	55.00	165.00	L.V.	CG-1	48	0.65	31.20
TOTAL					TOTAL				

MATERIALS / SUBCONTRACTOR / EXPENSES	AMOUNT
P.I.D. 0.33 day @ 75 ⁰⁰ /day	25.00
Lab Analytical	
2 ea. 8015M (TPH) @ 80 ⁰⁰	160.00

PAGE _____ PAGE TOTAL _____

REPORT TOTAL _____

(Applicable taxes will be added to your invoice.)

CUSTOMER SIGNATURE

C. A. St. L.
ON SITE TECHNOLOGIES SUPERVISOR

IMPORTANT: Payment for all services or products provided according or pursuant to this agreement is due in full to On Site Technologies, Ltd. (On Site) within thirty (30) days of the date of the invoice for such. Unpaid balances or accounts shall be charged interest at the rate of one percent (1%) per month, compounded continuously. On Site specifically waives responsibility for damages or injuries which result from undisclosed or unanticipated circumstances or occurrences encountered during the provision of the products and services which are the subject of this agreement. On Site is not liable for or responsible for incidental or consequential damages under any circumstances. The rates and time to completion specified (if applicable), are estimates based upon available information, actual charges and

times may vary. By entering into this agreement you warrant that On Site will be provided with all information and cooperation necessary for On Site to fulfill its duties and obligations herein. On Site may be excused from its duty to perform herein due to Acts of God, Physical impossibility, War, and in those circumstances where performance is or becomes a violation of public law or policy. In the event it becomes necessary for On Site to enforce this agreement, On Site shall be entitled to all costs and expense reasonably incurred including but not limited to attorneys fees, and to actual, consequential and incidental damages. Your signature above constitutes your consent to be bound by all of the terms and conditions herein.

DISTRIBUTION: White - Office • Canary - Customer • Pink - Retain in Book

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.: *4125*
 Sample No. *11015*
 Job No. *4-1286*

Project Name: *Bonneville Fuels Federal Lease*
 Project Location: *Scott E Federal 23-42 Compressor Pit; Pit Bottom @ 8.0' Grab*
 Sampled by: *CG* Date: *28-May-96* Time: *15:30*
 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)	9.3	mg/kg	5.0	mg/kg
Diesel Range Organics (C10 - C28)	68.3	mg/kg	5.0	mg/kg
TOTAL	77.6	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 BUSINESS 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: *30-May-96*
 COC No.: *4125*
 Sample No. *11016*
 Job No. *4-1286*

Project Name: ***Bonneville Fuels Federal Lease***
 Project Location: ***Scott E Federal 23-42 Compressor Pit; Treated Stockpile Composite***
 Sampled by: CG Date: 28-May-96 Time: 15:45
 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)	< 5.0	mg/kg	5.0	mg/kg
Diesel Range Organics (C10 - C28)	544.4	mg/kg	5.0	mg/kg
	TOTAL	544.4		mg/kg

Quality Assurance ReportGRO 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 SERVING INDUSTRY AND THE ENVIRONMENT

CHAIN OF CUSTODY RECORD

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

Date: 5-24-96

Page 1 of 1[illegible]

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