District I P. . Box 1930, Hobbs, NM

State of New Mexico Energy, Minerals and Natural Resources Department APPROPRIATE

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

Distr CEPHTY OIL & GAS INSPECTOR OIL CONSERVATION DIVISION 1000 Rio Brazos Rd, Azlec, NM 87410

APR 0 8 1997

Santa Fe, New Mexico 87504-2088

(Revised 3/9/94)

PATTEREMEDIATION AND CLOSURE REPORT

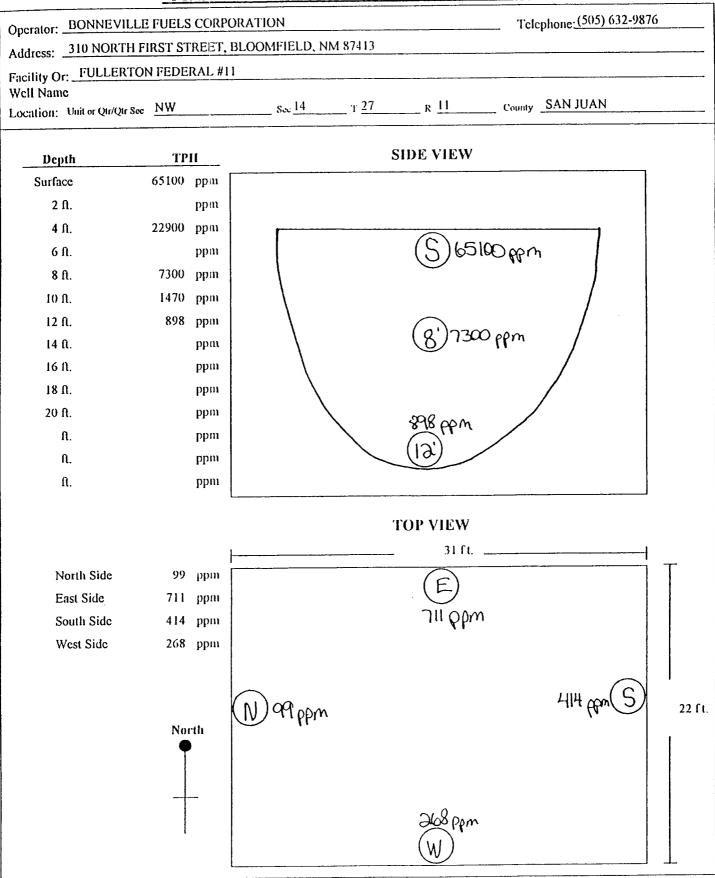
Operator: BONNEVILLE FUELS CORPORATIO	N Telephone: 303-863-1555
Address: 1660 Lincoln Street, Suite	1800, Denver, CO 80264
Facility Or: Fullerton Federal #11 Well Name	
Location: Unit or Qtr/Qtr sec NW E	Sec 14 T 27 R 11 County San Juan
Pit Type: Separator_XX Dehydrator	Other
Land Type: BLM XX, State , Fee	_, Other
(Attach diagram)	h 31 , width 22 , depth 10, other See Attached
Footage from reference	
Direction from reference	ce: Degrees East North of
	West South
Depth To Ground Water:	Less than 50 feet (20 points)
(Vertical distance from contaminants to seasonal high water elevation of	50 feet to 99 feet (10 points) Greater than 100 feet (0 points) 0
ground water)	RECEIVED
Wellhead Protection Area:	FEB 1 8 1937 Yes (20 points)
(Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	OIL CON. DIV. DIST. 3
Distance To Surface Water:	Less than 200 feet (20 points)
(Norizontal distance to perennial lakes, ponds, rivers, streams, creeks,	200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)
irrigation canals and ditches)	RANKING SCORE (TOTAL POINTS): 0

Date Remediation Sta	rted: 8/30/94	Date Completed:	8/30/94
Remediation Method: (Check all appropriate	Excavation XX	Approx. cubic yards	252
sections)	Landfarmed	Insitu Bioremediation	· · ·
	Other		
· .			
Remediation Location (ie. landfarmed onsite, name and location of offsite facility)	: Onsite <u>XX</u> Offsite	e	
General Description	Of Remedial Action:	Contamination was remediate	ed by dilution
and aeration. Remediated	d soil was backfilled i	nto remediated pit. A below earthen pit as per NMOCD guid	w grade fiberglass
was sampled approximately	y 1-1/2 years after ini	tial remediation to supply 1	BTEX values for
		was done with a truck mountermediated pit. Several sam	
		as representative of the back	
sample was either taken	off the raised auger or	with a split spoon.	
Ground Water Encounte	ered: No XX Yes	Depth	
Final Pit: Closure Sampling: (if multiple samples,	Sample location <u>Se</u>	e Attached	
attach sample results and diagram of sample	Sample depth 12';	14'	
locations and depths)	Sample date <u>8/30/94</u>	: 5-20-96 Sample time 11	1:00:00; 14:25
	Sample Results		
	Benzene (ppm) _	.15 @ 14'; .02 composite	
	Total BTEX (ppm	n) 30.1 @ 14'; 4.0 composit	ce
	Field headspace	e (ppm) composite 6-8 (PID,	143 units); TD 14' (PID, 246 units)
	TPH @ 12' = 89	8; Backfill = 888, 365 ,744,	
Ground Water Sample:	Yes No _XX_ (If yes, attach sample result	ts)
I HEREBY CERTIFY THAT OF MY KNOWLEDGE AND E		BOVE IS TRUE AND COMPLET	TE TO THE BEST
DATE 2/2/4	a Rak		
SICNATURE	FRINTED NA AND TITLE	NME James O. Cable Vice President Operat:	

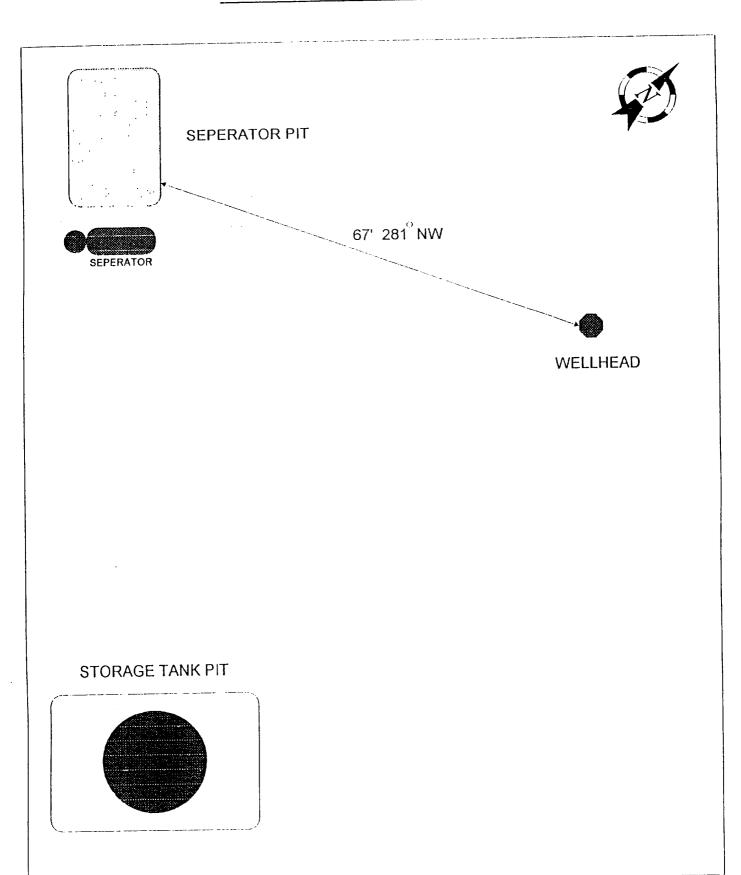
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FINAL PIT CLOSURE SAMPLING REPORT



BONNEVILLE FUELS CORPORATION FULLERTON FEDERAL #11



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

DATE: 05-20-96

CLIENT: BONNEVILLE FUELS

SITE LOCATION: FULLERTON FEDERAL #11

Unit E Sec. 14, T27N, R11W, NMPM

San Juan County

CONTRACTOR: ON SITE

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

ASSESSMENT SUMMARY

CO.#: BON 1001

LOGGER: RC

JOB #: 4-1286

PAGE #: 1 FINISH: 14:25

START: 13:50

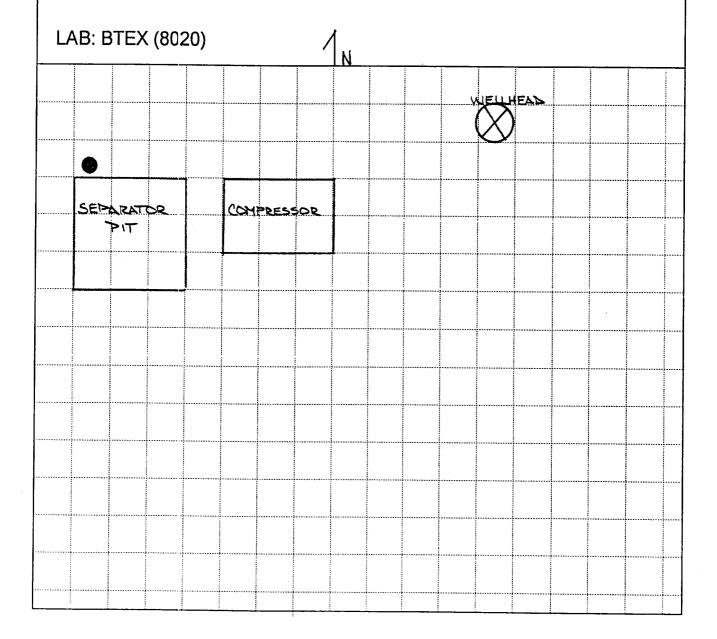
NOTES:

One pit assessed:Separator

Separator Composite: 6'-8' (PID: 143 Units)

Separator Grab: 14' (PID: 246 Units)

TD: 14'



OFF: (505) 325-8786 **TECHNOLOGIES, LTD**

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

Bonneville Fuels Federal Lease

Project Location: Sampled by:

Project Name:

FF-11-TD RLC

HR

Date: Date:

20-May-96 Time: 22-May-96

Date:

COC No.:

Sample No.

Job No.

14:20

22-May-96

4107

10941

4-1286

Analyzed by: Sample Matrix:

Soil

Laboratory Analysis

Component		Result	Units of Measure	Detection Limit	Units of Measure
Benzene		150.3	ug/kg	0.2	ug/kg
Toluene		1586.7	ug/kg	0.2	ug/kg
Ethylbenzene		3013.2	ug/kg	0.2	ug/kg
m,p-Xylene		20460.9	ug/kg	0.2	ug/kg
o-Xylene		4862.4	ug/kg	0.2	ug/kg
	TOTAL	30073.5	ug/kg		

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

Approved by:

P. O. BOX 2606 • FARMINGTON, NM 87499

- Technology Blending Industry with the Environment -



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.:

4107

Sample No.

10942

Job No.

4-1286

Project Name:

Bonneville Fuels Federal Lease

Project Location:

FF-11-Comp

Sampled by:

RLC

Date: Date:

20-May-96 Time:

14:05

Analyzed by: Sample Matrix: HR Soil

22-May-96

Laboratory Analysis

Parameter		Result	Units of Measure	Detection Limit	Units of Measure
Benzene		21.9	ug/kg	0.2	ug/kg
Toluene		137.0	ug/kg	0.2	ug/kg
Ethylbenzene		445.7	ug/kg	0.2	ug/kg
m,p-Xylene		3361.4	ug/kg	0.2	ug/kg
o-Xylene		66.1	ug/kg	0.2	ug/kg
	TOTAL	4032.1	ug/kg		

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

Approved by:

P. O. BOX 2606 • FARMINGTON, NM 87499



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

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

Calibration Check

	Units of	True	Analyzed	% Diff	Limit
Analyte	Measure	Value	Value		
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

	1- Percent	2 - Percent			
Analyte	Recovered	Recovered	Limit	%RSD	Limit
Benzene	88	88	(39-150)	1	20%
Toluene	91	94	(46-148)	2	20%
Ethylbenzene	89	88	(32-160)	1	20%
m,p-Xylene	92	92	(35-145)	0	20%
o-Xylene	88	92	(35-145)	3	20%

Surrogate Recoveries

	S1	S2
	Percent	Percent
Laboratory Identification	Recovered	Recovered
Limit Percent Recovery	(70-130)	
10939-4107	94	
10940-4107	97	
10941-4107	97	
10942-4107	93	
		

S1: Flourobenzene

P. O. BOX 2606 • FARMINGTON, NM 87499

ON SITE TECHNOLOGIES, LTD.

CHAIN OF CUSTODY RECORD

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