District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211

1000 Rio Brazos Rd, Aztec, NM 87410

District III

State of New Mexico SUBMIT 1 CO: Energy, Minerals and Natural Resources Department APPROPRIATE

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

OIL CONSERVATION DIVISION

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

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: Blackwood & Nichols Company	Denny & Fruit
Address: P.O. Box 1237, Durango, CO	DEPUTY OIL & GAS INSPECTOR
Facility Or: NEBU #25 Well Name	APR 3 1995 4 pproved
Location: Unit or Qtr/Qtr Sec_B_Sec_17	
Pit Type: Separator Dehydrator Other	n Dehydrator/Separator
Land Type: BLM X , State , Fee , O	ther
Pit Location: Pit typical dimensions: len (Attach diagram) Reference: wellhead X , o	
·	
Footage from reference:	
Direction from reference: _	Degrees <u>15'</u> East North <u>80'</u> of
	West South
Depth To Ground Water: (Vertical distance from	Less than 50 feet (20 points)
contaminants to seasonal	50 feet to 99 feet (10 points) Greater than 100 feet (0 points)0
contaminants to seasonal high water elevation of ground water)	
high water elevation of	
high water elevation of ground water) Wellhead Protection Area:	Greater than 100 feet (0 points) 0 Yes (20 points)
high water elevation of ground water)	Greater than 100 feet (0 points) 0
high water elevation of ground water) Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than	Greater than 100 feet (0 points) 0 Yes (20 points)
high water elevation of ground water) Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources) Distance To Surface Water: (Horizontal distance to perennial	Yes (20 points)0 Yes (20 points)0 No (0 points)0 Less than 200 feet (20 points) 200 feet to 1000 feet (10 points)
high water elevation of ground water) Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources) Distance To Surface Water:	Greater than 100 feet (0 points)0 Yes (20 points) No (0 points)0 Less than 200 feet (20 points)

Reverse Page for Pit Closure	Report Blackwood NEBU #25: Dehy/Sep
Date Remediation Start	ed: 08/15/94 Date Completed: 08/15/94
Remediation Method: Ex	xcavation X Approx. cubic yards 24
(Check all appropriate sections)	andfarmed X Insitu Bioremediation
Of	ther
Remediation Location: (ie. landfarmed onsite, name and location of offsite facility)	Onsite X Offsite
General Description Of	Remedial Action: Excavate contaminated soils in
immediate area of prio	r unlined pit using a backhoe. Excavated to bedrock
refusal. Spoil materi	al thin spread for landfarm treatment. Closure samples
taken and tested by PI	D, TPH and BTEX. Place double lined fiberglass pit in
excavation and backfil	l flush to tank. PIT CLOSED.
Ground Water Encounter	ed: No X Yes Depth
Final Pit: Closure Sampling:	ed: No X Yes Depth Sample locationSee attached diagram
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	
Final Pit: Closure Sampling: (if multiple samples, attach sample results	Sample location <u>See attached diagram</u>
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample location <u>See attached diagram</u> Sample depth <u>Bedrock</u>
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample location See attached diagram Sample depth Bedrock Sample date 08/15/94 Sample time
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample location See attached diagram Sample depth Bedrock Sample date 08/15/94 Sample time Sample Results
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample location See attached diagram Sample depth Bedrock Sample date 08/15/94 Sample time Sample Results Benzene (ppm) 0.9 (902 ppB)
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample location See attached diagram Sample depth Bedrock Sample date 08/15/94 Sample time Sample Results Benzene (ppm) 0.9 (902 ppB) Total BTEX (ppm) 29 (29,451 ppB)
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)	Sample locationSee attached diagram Sample depthBedrock Sample date08/15/94Sample time Sample Results Benzene (ppm)0.9 (902 ppB) Total BTEX (ppm)29 (29,451 ppB) Field headspace (ppm)>2500
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Ground Water Sample:	Sample locationSee attached diagram Sample depthBedrock Sample date08/15/94Sample time Sample Results Benzene (ppm)0.9 (902 ppB) Total BTEX (ppm)29 (29,451 ppB) Field headspace (ppm)>2500 TPH1,875 mq/kq Yes NoX (If yes, attach sample results) THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Ground Water Sample: I HEREBY CERTIFY THAT	Sample locationsee attached diagram Sample depthBedrock Sample date08/15/94Sample time Sample Results Benzene (ppm)0.9 (902 ppB) Total BTEX (ppm)29 (29,451 ppB) Field headspace (ppm)>2500 TPH1,875 mq/kq Yes NoX (If yes, attach sample results) THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST CLIEF

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TOTAL PETROLEUM HYDROCARBONS

Attn:

Myke Lane

Date:

8/17/94

Company: On Site Technologies Ltd.

Lab ID:

1825

Address:

657 W. Maple

Sample No.

2518

City, State: Farmington, NM 87401

Job No.

4-1116

Project Name:

Blackwood & Nichols - Durango, CO

Project Location:

NEBU #25 Dehy Pit @ Btm.

Date:

8/15/94 Time:

15:55

Sampled by: Analyzed by: MKL DLA

Date:

8/16/94

Type of Sample:

Soil

Laboratory Analysis

Laboratory Identification	Sample Identification	Total Petroleum Hydrocarbons
	Blackwood & Nichols - Durango, CO	
2518-1825	NEBU #25 Dehy Pit @ 8tm.	1,875 <i>mg/kg</i>

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by:

Date:



AROMATIC VOLATILE ORGANICS

Attn:

Myke Lane

Date:

8/17/94

Company: On Site Technologies, Ltd.

Lab ID:

1825

Address:

657 W. Maple

Sample ID:

2518

City, State: Farmington, NM 87401

Job No.

Time:

4-1116

Project Name:

Blackwood & Nichols

Project Location:

NEBU #25 Dehy Pit @ Btm.

Date:

Date:

Sampled by:

MKL

8/15/94 8/16/94

15:55

Analyzed by: Sample Matrix: DLA

Soil

Aromatic Volatile Organics

	**Measured Concentration ug/kg	
Component		
Benzene	902	
Toluene	16,435	
Ethylbenzene	982	
m,p-Xylene	9,551	
o-Xylene	1,582	
	TOTAL 29,451 ug/kg	

ND - Not Detectable

** - Method Detection Limit, 2 ug/kg

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

Approved by:

Date:



QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 8/16/94

Internal QC No.:

0222-STD

Surrogate QC No.:

0223-STD

Reference Standard QC No.:

0355-STD

Method Blank

Analytes in Blank	Amount
Average Amount of All Analytes In Blank	<1 ppb

Calibration Check

Units of *True Analyzed					
Calibration Standards	Measure	Value	Value	% Diff	Limit
Benzene	ppb	20	21	5	15%
Toluene	ppb	20	19	4	15%
Ethylbenzene	ppb	20	18	8	15%
m,p-Xylene	ppb	40	36	10	15%
o-Xylene	ppb	20	18	8	15%

Spike Results

- Opinio	1- Percent	2 - Percent			
Analyte	Recovered	Recovered	Limit	%RSD	Limit
Benzene	104	105	(39-150)	1	20%
Toluene	95	103	(46-148)	6	20%
Ethylbenzene	100	1.01	(32-160)	1	20%
m,p-Xylene	99	104	(35-145)	4	20%
o-Xylene	96	97	(35-145)	1	20%

Surrogate Recoveries

Laboratory	\$1	S2	S3
Identification	Percent	Percent	Percent
	Recovered	Recovered	Recovered
Limits	(70-130)		
2514-1825	107		
			

S1: Flourobenzene

District I P.O. Box 1980, Hobbs, NM State of New Mexico

Energy, Minerals and Natural Resources Departm

District II P.O. Drawer DD, Artesia, NM 83211

District III 1000 Rio Brazos Rd, Aztec, NM 87410 OIL CONSERVATION DIVISION

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

347 Survey For Two P.TS

SUBMIT 1 COPY TO

PIT REMEDIATION AND CLOSURE REPO

Operator: Blackwood & Nichols Company	Telephone: (303) 247-0728
Address: P.O. Box 1237, Durango, CO 8	31302-1237
Facility Or: NEBU #25 Well Name	
Location: Unit or Qtr/Qtr Sec_B_ Sec_17_	T 30N R 7W County Rio Arriba
Pit Type: Separator Dehydrator Other	Tank/Dehydrator
Land Type: BLM X , State , Fee , O	ther
Pit Location: Pit typical dimensions: length (Attach diagram)	
	ther
Footage from reference:	Degrees <u>27'</u> East North <u>30'</u>
<u></u>	of West South
Depth To Ground Water:	Less than 50 feet (20 points)
contaminants to seasonal	50 feet to 99 feet (10 points) 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 domestic water source, or; less than 1000 feet from all other water sources)	No (0 points) 0
Distance To Surface Water:	Less than 200 feet (20 points)
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks,	200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points) 10
irrigation canals and ditches)	RANKING SCORE (TOTAL POINTS): 10

Reverse Page for Pit Closure Report Blackwood NEBU #25: Tank/Dehy Date Remediation Started: 08/15/94 Date Completed: 08/15/94 Remediation Method: Excavation X Approx. cubic yards ____8 (Check all appropriate Landfarmed X Insitu Bioremediation sections) Other _____ Remediation Location: Onsite X Offsite (ie. landfarmed onsite, name and location of offsite facility) General Description Of Remedial Action: Excavate contaminated soils in immediate area of prior unlined pit using a backhoe. Excavated to bedrock refusal. Spoil material thin spread for landfarm treatment. Closure samples taken and tested by PID and TPH. Place double lined fiberglass pit in excavation and backfill flush to tank. PIT CLOSED. Ground Water Encountered: No X Yes ___ Depth ____ Sample location See attached diagram Final Pit: Closure Sampling: (if multiple samples, attach sample results Sample depth Bedrock and diagram of sample locations and depths) Sample date ____08/15/94___ Sample time Sample Results Benzene (ppm) N/A Total BTEX (ppm) N/A Field headspace (ppm) >2500 TPH 5,686 mg/kgGround Water Sample: Yes No <u>X</u> (If yes, attach sample results) I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

PRINTED NAME Jim Abbey

AND TITLE Operations Engineer

DATE

SIGNATURE

BLACKWOOD & NICHOLS Co. 4-1116	
NEBU No: 25	¥ 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
330/FUL # 1900 FEL	
SIT-TENN-ETW, HMPH, P.A. C., NH	
TK/DEMY Pr @ 27/E \$ 30'N OF WELL	D D
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	Exc. 11x14x 3' = 46286
367 7250	ORIC. 77 + 2854
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TPH COMP. : SCERCOPH JANDSZEVE	
50 (06: 0-21 SAHOY Sug to Gen	
2 T FRIABLE SALDSTONE	Ground A . T.
	3, 01/1/
	SANDSTAND



TOTAL PETROLEUM HYDROCARBONS

Attn:

Myke Lane

Company: On Site Technologies Ltd.

Date: Lab ID: 8/17/94

657 W. Maple

1825 2517

Address:

City, State: Farmington, NM 87401

Sample No. Job No.

4-1116

Blackwood & Nichols - Durango, CO

Project Name: **Project Location:**

NEBU #25 Tk/Dehy Pit @ Btm.

Sampled by:

MKL

Date:

8/15/94 Time:

15:45

Analyzed by:

DLA

Date:

8/16/94

Type of Sample:

Soil

Laboratory Analysis

Laboratory Identification	Sample Identification	Total Petroleum Hydrocarbons
	Blackwood & Nichols - Durango, CO	
2517-1825	NEBU #25 Tk/Dehy Pit @ Btm.	5,686 <i>mg/kg</i>

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by:

Date: