District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
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 1994)

Jerry Sexton
DEPUTY OIL & GAS INSPECTOR
APR 3 1995
Approved

PIT REMEDIATION AND CLOSURE REPORT

Operator: Blackwood & Nichols Company Telephone: (303) 247-0728

Address: P.O. Box 1237, Durango, CO 81302-1237

Facility Or: NEBU #102A
Well Name

Location: Unit or Qtr/Qtr Sec F Sec 03 T 30N R 7W County Rio Arriba

Pit Type: Separator ____ Dehydrator ____ Other Separator/Dehydrator/Compressor/Tank

Land Type: BLM ____, State ____, Fee ____, Other BOR

Pit Location: (Attach diagram)
Pit typical dimensions: length 10', width 10', depth 3-4'
Reference: wellhead X, other ____
Footage from reference: ____
Direction from reference: ____ Degrees ____ East North 25' of
65' 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)	0
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	Yes	(20 points)	
	No	(0 points)	0
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)	10
	RANKING SCORE (TOTAL POINTS):		10

Reverse Page for Pit Closure Report Blackwood NEBU #102A: Sep/Dehy/Comp/Tank

Date Remediation Started: 08/15/94 Date Completed: 08/15/94

Remediation Method: (Check all appropriate sections) Excavation _____ Approx. cubic yards N/A

Landfarmed _____ Insitu Bioremediation _____

Other _____

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

General Description Of Remedial Action: _____

Place double lined fiberglass pit in excavation and backfill flush to tank.

All soils below action levels and no additional remediation effort required.

PIT CLOSED.

Ground Water Encountered: No X Yes ____ Depth _____

Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location See attached diagram

Assessment following tank installation

Sample depth Bottom

Sample date 08/15/94 Sample time _____

Sample Results

Benzene (ppm) 0.01 (11.5 ppB)

Total BTEX (ppm) 0.2 (228.2 ppB)

Field headspace (ppm) 63.2

TPH 590 mg/kg

Ground Water Sample: Yes ____ No X (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 2-6-95

SIGNATURE James K Abbey PRINTED NAME AND TITLE Jim Abbey Operations Engineer

ON SITE TECHNOLOGIES, LTD.

TOTAL PETROLEUM HYDROCARBONS

Attn:	*Myke Lane*	Date:	8/17/94
Company:	*On Site Technologies Ltd.*	*Lab ID:*	*1825*
Address:	*657 W. Maple*	*Sample No.*	*2515*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1116*

Project Name:	***Blackwood & Nichols - Durango, CO***				
Project Location:	***NEBU #102A Tk Pit @ Shale***				
Sampled by:	MKL	Date:	8/15/94	Time:	14:00
Analyzed by:	DLA	Date:	8/16/94		
Type of Sample:	*Soil*				

Laboratory Analysis

Laboratory Identification	***Sample Identification***	***Total Petroleum Hydrocarbons***
2515-1825	*Blackwood & Nichols - Durango, CO* ***NEBU #102A Tk Pit @ Shale***	590 *mg/kg*

Method - *EPA Method 418.1 Total Petroleum Hydrocarbons*

Approved by: DA K

Date: 8/18/94

FAX: (505) 327-1496 ▪ 24 HR. - (505) 327-7105 ▪ OFF.: (505) 325-8786

3005 NORTHRIDGE DRIVE ▪ SUITE F ▪ P. O. BOX 2606 ▪ FARMINGTON, NEW MEXICO 87499

ON SITE TECHNOLOGIES, LTD.

AROMATIC VOLATILE ORGANICS

Attn:	*Myke Lane*	Date:	8/17/94
Company:	*On Site Technologies, Ltd.*	*Lab ID:*	*1825*
Address:	*657 W. Maple*	*Sample ID:*	*2515*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1116*

Project Name:	***Blackwood & Nichols***				
Project Location:	***NEBU #102A Tk Pit @ Shale***				
Sampled by:	MKL	Date:	8/15/94	Time:	14:00
Analyzed by:	DLA	Date:	8/16/94		
Sample Matrix:	*Soil*				

Aromatic Volatile Organics

Component	****Measured Concentration ug/kg***
Benzene	*11.5*
Toluene	*148.1*
Ethylbenzene	*1.6*
m,p-Xylene	*56.8*
o-Xylene	*10.2*
TOTAL	*228.2 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: [signature]
Date: 8/12/94

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ON SITE TECHNOLOGIES, LTD.

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

Calibration Standards	Units of Measure	*True Value	Analyzed 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

Analyte	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Benzene	104	105	(39-150)	1	20%
Toluene	95	103	(46-148)	6	20%
Ethylbenzene	100	101	(32-160)	1	20%
m,p-Xylene	99	104	(35-145)	4	20%
o-Xylene	96	97	(35-145)	1	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	S3 Percent Recovered
Limits	(70-130)		
2514-1825	107		

S1: Flourobenzene

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FIELD DIAGRAM

BLACKWOOD & NICHOLS CO. 4-1116
8/15/94 PIT ASSESSMENT & CLOSURE
NEBU No.: 102A
1810'FNL & 1540'FWL
33-T30N-R7W, RIO ARRIBA CO, NM

DEHY / HEATER / COMP. / TK. PIT
LOCATE: 25'N & 65'W OF WELL

OVM

T#1 @ 38"	21.7	SHALE
T#2 @ 48"	63.2	SHALE
T#3 @ 34"	23.5	SHALE
STOCKPILE COMP.	12.9	SPT. COMP.