

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 3/9/94)

**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 #9  
Well Name \_\_\_\_\_  
Location: Unit or Qtr/Qtr Sec N Sec 12 T 30N R 8W County San Juan  
Pit Type: Separator \_\_\_\_\_ Dehydrator \_\_\_\_\_ other Dehydrator/Separator  
Land Type: BLM \_\_\_\_\_, State \_\_\_\_\_, Fee \_\_\_\_\_, other BUREAU OF RECLAMATION

*Henry L. Faust*  
DEPUTY OIL & GAS INSPECTOR

APR 3 1995

*Approved*

Pit Location: Pit typical dimensions: length 10', width 10', depth 3-4'  
(Attach diagram)  
Reference: wellhead X, other \_\_\_\_\_  
Footage from reference: \_\_\_\_\_  
Direction from reference: \_\_\_\_\_ Degrees 75' East & North 30'  
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

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

Remediation Method: Excavation ☒ Approx. cubic yards 86  
(Check all appropriate sections)  
Landfarmed ☒ Insitu Bioremediation \_\_\_\_\_  
other \_\_\_\_\_

Remediation Location: onsite ☒ 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, TPH and BTEX. Place double lined fiberglass  
pit in excavation and backfill flush to tank. Pit Closed.

Ground Water Encountered: No ☒ Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit: Sample location See attached diagram

## Closure Sampling:

(if multiple samples,  
attach sample results  
and diagram of sample  
locations and depths)

Sample depth Bedrock

Sample date 08/15/94 Sample time \_\_\_\_\_

## Sample Results

Benzene (ppm) 0.2 (216 ppB)

Total BTEX (ppm) 15 (14,831 ppB)

Field headspace (ppm) >2500

TPH 2,600 mg/kg

Ground Water Sample: Yes \_\_\_\_\_ No ☒ (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 2-7-95

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





**ON SITE  
TECHNOLOGIES, LTD.**  
**TOTAL PETROLEUM HYDROCARBONS**

Attn: *Myke Lane*  
Company: *On Site Technologies Ltd.*  
Address: *657 W. Maple*  
City, State: *Farmington, NM 87401*

Date: *8/17/94*  
Lab ID: *1825*  
Sample No. *2519*  
Job No. *4-1116*

Project Name: *Blackwood & Nichols - Durango, CO*  
Project Location: *NEBU #9 Sep/Dehy Pit @ Btm.*  
Sampled by: *MKL*  
Analyzed by: *DLA*  
Type of Sample: *Soil*

Date: *8/15/94* Time: *17:35*  
Date: *8/16/94*

**Laboratory Analysis**

<b>Laboratory Identification</b>	<b>Sample Identification</b>	<b>Total Petroleum Hydrocarbons</b>
<i>2519-1825</i>	<i>Blackwood &amp; Nichols - Durango, CO</i> <i>NEBU #9 Sep/Dehy Pit @ Btm.</i>	<i>2,600 mg/kg</i>

**Method** - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by: 

Date: *8/17/94*



**ON SITE  
TECHNOLOGIES, LTD.**  
**AROMATIC VOLATILE ORGANICS**

Attn: *Myke Lane*  
Company: *On Site Technologies, Ltd.*  
Address: *657 W. Maple*  
City, State: *Farmington, NM 87401*

Date: *8/17/94*  
Lab ID: *1825*  
Sample ID: *2519*  
Job No. *4-1116*

Project Name: *Blackwood & Nichols*  
Project Location: *NEBU #9 Sep/Dehy Pit @ Btm.*  
Sampled by: *MKL* Date: *8/15/94*  
Analyzed by: *DLA* Date: *8/16/94*  
Sample Matrix: *Soil*

Time: *17:35*

**Aromatic Volatile Organics**

<b>Component</b>	<b>**Measured Concentration ug/kg</b>
<i>Benzene</i>	<i>216</i>
<i>Toluene</i>	<i>2,210</i>
<i>Ethylbenzene</i>	<i>500</i>
<i>m,p-Xylene</i>	<i>11,012</i>
<i>o-Xylene</i>	<i>892</i>
	<i>TOTAL 14,831 ug/kg</i>

*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: *8/17/94*

# 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: Fluorobenzene

FAX (505) 327-1496 • TELE (505) 327-7105 • OFF (505) 325-8786

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