

District I  
P.O. Box 1000, Hobbs, NM  
District II  
P.O. Drawer 00, Artesia, NM 88221  
District III  
1000 Rio Brazos Rd. Aztec, NM 87410

*Kenny E. Frost*  
**DEPUTY OIL & GAS INSPECTOR**

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street  
Santa Fe, New Mexico 87505

**RECEIVED**  
JUL 30 1996

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

**OIL CON. DIV.**  
DET. 3

OCT 11 9 1996

**PIT REMEDIATION AND CLOSURE REPORT**

<b>Operator:</b> PNM Gas Services ( Snyder )		<b>Telephone:</b> 324-3764	
<b>Address:</b> 603 W. Elm Street Farmington, NM 87401			
<b>Facility or Well Name:</b> Lea #1M			
<b>Location:</b>	Unit: C	Sec. 30	T. 31 N R. 12 W County San Juan
<b>Pit Type:</b>	Separator	Dehydrator	Other P&A
<b>Land Type:</b>	BLM <input checked="" type="checkbox"/>	State	Fee Other
<b>Pit Location:</b>		Pit dimensions: length 12 width 12 depth 4	
(Attach diagram)	<b>Reference:</b>	wellhead <input checked="" type="checkbox"/> other	
<b>Footage from reference:</b>		135'	
<b>Direction from reference:</b>		15 Degrees <input checked="" type="checkbox"/> East North <input checked="" type="checkbox"/> West South	
<b>Depth to Ground Water:</b>		Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points) 10	
(Vertical distance from contaminants to seasonal high water elevation of ground water)			
<b>Wellhead Protection Area:</b>		Yes (20 points) No (0 points) 0	
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)			
<b>Distance to Surface Water:</b>		Less than 200 feet (20 points) 200 feet to 1,000 feet (10 points) Greater than 1,000 feet (0 points) 0	
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)			
<b>RANKING SCORE (TOTAL POINTS):</b>			10

Date Remediation Started:

3/14/95

Date Completed:

5/15/95

Remediation Method:

Excavation

X

Approx. Cubic Yard

330

(Check all appropriate sections)

Landfarmed

X

Amount Landfarmed (cubic yds)

330

Other \_\_\_\_\_

Remediation Location:

Onsite

X

Offsite \_\_\_\_\_

(i.e., landfarmed onsite, name and location of offsite facility)

Backfill Material Location: \_\_\_\_\_

General Description of Remedial Action:

Excavated contaminated soil and landfarmed soil onsite within a bermed area at a depth 6" to 12". Soil will be aerated by plowing/disking until soil meets regulatory levels.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Ground Water Encountered:

No

✓

Yes

Depth \_\_\_\_\_

Final Pit Closure Sampling:

Sample Location

Center of pit bottom

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

Sample depth

15'

Sample date

3/14/95

Sample time

9:15:00 AM

Sample Results

Benzene (ppm)

ND

Total BTEX (ppm)

0.1102

Field headspace (ppm)

TPH

24.00

Method

418.1

Vertical Extent (ft) \_\_\_\_\_

Risk Assessment form attached

Yes

No

✓

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 MY BELIEF

DATE

7-26-96

SIGNATURE

Denver Bearden

PRINTED NAME  
AND TITLE

LEA 1M

SHYDER oil Co

P4A

probably outside extended Vulnerable Area

NE / NW

SEC 30

T - 31N

R - 12W

San Juan

SF-678844

From topo map

HDW  $\approx 1500'$

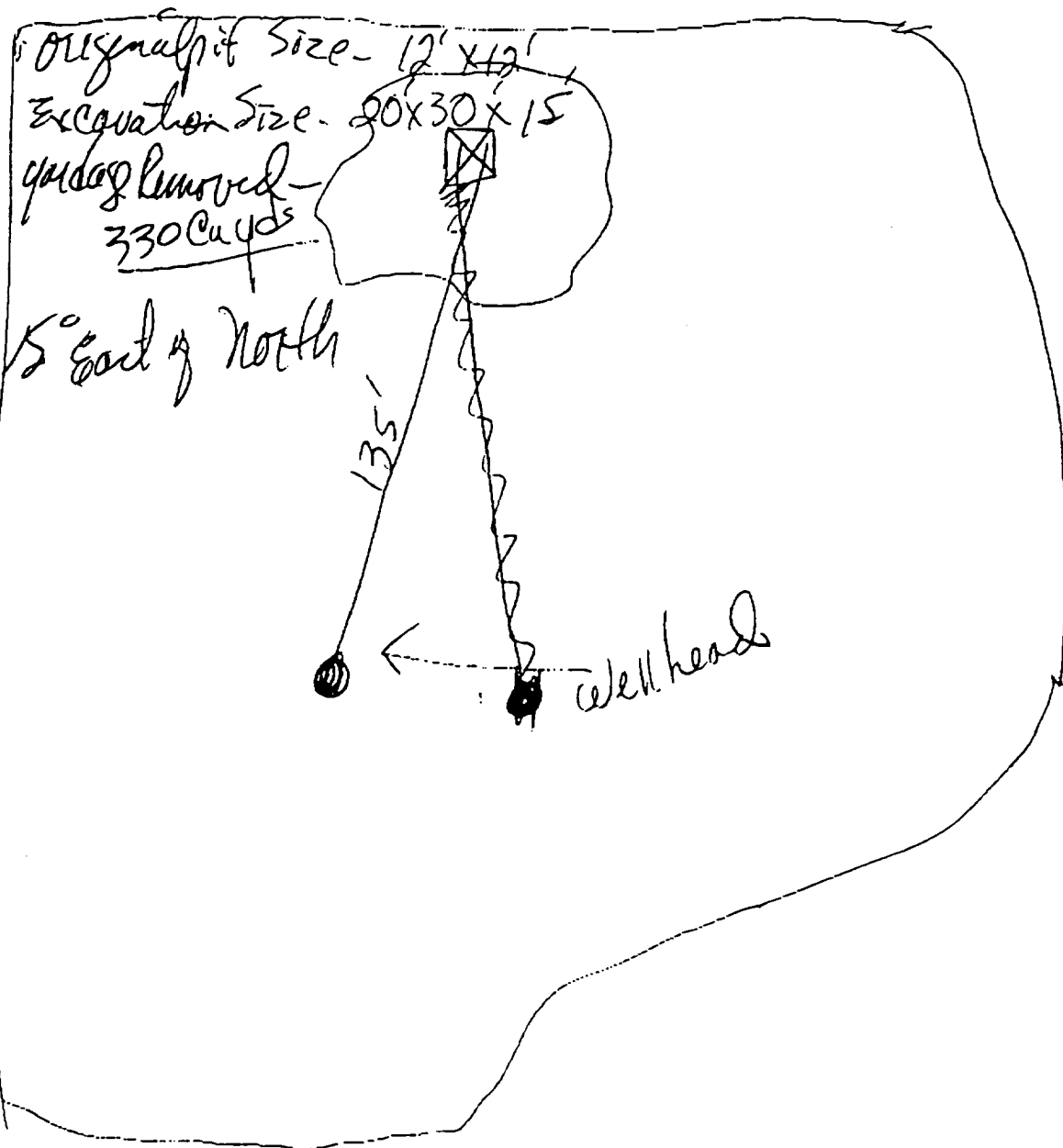
VDW  $\approx 90'$

WIT = NA

WIT 9500'

Running Factor - 0

North



OFF: (505) 325-8786



LAB: (505) 325-5667

**TOTAL PETROLEUM HYDROCARBONS**

Attn: *Denver Bearden*  
Company: *Gas Company of New Mexico*  
Address: *P.O. Box 1899*  
City, State: *Bloomfield, NM 87413*

Date: *3/16/95*  
COC No. *2913*  
Sample No. *5540*  
Job No. *2-1000*

Project Name: *Gas Company of New Mexico*  
Project Location: *LEA #1 - M @ 15'*  
Sampled by: *DB*  
Analyzed by: *DC*  
Type of Sample: *Soil*

Date: *3/14/95* Time: *NR*  
Date: *3/15/95*

**Laboratory Analysis**

<b>Laboratory Identification</b>	<b>Sample Identification</b>	<b>Total Petroleum Hydrocarbons</b>
<i>5540-2913</i>	<i>Gas Company of New Mexico LEA #1 - M @ 15'</i>	<i>24 mg/kg</i>

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

Approved by: *Da 4*  
Date: *3/14/95*

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OFF: (505) 325-8786



LAB: (505) 325-5667

**AROMATIC VOLATILE ORGANICS**

Attn: *Denver Bearden*  
Company: *Gas Company of New Mexico*  
Address: *P.O. Box 1899*  
City, State: *Bloomfield, NM 87413*

Date: *3/16/95*  
COC No. *2913*  
Sample ID: *5540*  
Job No. *2-1000*

Project Name: *Gas Company of New Mexico*  
Project Location: *LEA #1 - M @ 15'*  
Sampled by: *DB* Date: *3/14/95*  
Analyzed by: *DLA/DC* Date: *3/15/95*  
Sample Matrix: *Soil*

Time: *NR*

**Aromatic Volatile Organics**

<b>Component</b>	<b>Measured Concentration ug/kg</b>	<b>Detection Limit Concentration ug/kg</b>
<i>Benzene</i>	<i>ND</i>	<i>0.2</i>
<i>Toluene</i>	<i>20.7</i>	<i>0.2</i>
<i>Ethylbenzene</i>	<i>ND</i>	<i>0.2</i>
<i>m,p-Xylene</i>	<i>79.8</i>	<i>0.2</i>
<i>o-Xylene</i>	<i>9.7</i>	<i>0.2</i>
	<b>TOTAL</b> <i>110.2 ug/kg</i>	

*ND - Not Detectable*

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

Approved by: *Day*  
Date: *3/16/95*

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## VOLATILE AROMATIC HYDROCARBONS

### Gas Company of New Mexico

Project ID: Pits  
Sample ID: LEA 1 M LF  
Lab ID: 1004  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Intact

Report Date: 05/18/95  
Date Sampled: 05/15/95  
Date Received: 05/15/95  
Date Extracted: 05/15/95  
Date Analyzed: 05/16/95

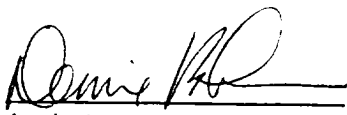
Target Analyte	Concentration (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	9.40
Toluene	ND	9.40
Ethylbenzene	ND	9.40
m,p-Xylenes	ND	18.8
o-Xylene	ND	9.40

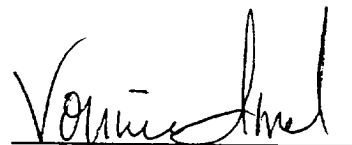
ND - Analyte not detected at the stated detection limit.

<b>Quality Control:</b>	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	97	81 -117%
	Bromofluorobenzene	100	74 -121%

**Reference:** Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics;  
Test Methods for Evaluating Solid Wastes, SW-846, United States  
Environmental Protection Agency, Final Update I, July, 1992.

**Comments:**

  
Analyst

  
Review

OFF: (505) 325-5667



LAB: (505) 325-1556

### **TOTAL PETROLEUM HYDROCARBONS**

Attn: **Shawn Adams**  
Company: **Contract Environmental Services, Inc.**  
Address: **P.O. Box 505**  
City, State: **Kirtland, NM 87417**

Date: **15-Jul-96**  
COC No.: **4202**  
Sample No. **11497**  
Job No. **2-1000**

Project Name: **Snyder Oil Corporation - Lea #1M**  
Project Location: **LEA-103; Backfill Mat.**  
Sampled by: **SA**  
Analyzed by: **HR**  
Sample Matrix: **Soil**

Date: **12-Jul-96** Time: **15:30**  
Date: **15-Jul-96**

#### **Laboratory Analysis**

<b>Parameter</b>	<b>Result</b>	<b>Detection Limit</b>	<b>Unit of Measure</b>	<b>Method</b>
<b>Total Petroleum Hydrocarbons, TPH</b>	<b>&lt; 25</b>	<b>25</b>	<b>mg/kg</b>	<b>EPA Method 418.1</b>


#### **Quality Assurance Report**

##### **Laboratory Fortified Blank/Spike Soil**

<b>Laboratory Identification</b>	<b>Analyzed Value</b>	<b>Acceptable Range</b>	<b>Unit of Measure</b>
<b>Laboratory Fortified Blank Soil - QCBS2</b>	<b>&lt; 25</b>	<b>&lt; 25</b>	<b>mg/kg</b>
<b>Laboratory Fortified Spike Soil - QCSS1</b>	<b>938</b>	<b>828 - 1024</b>	<b>mg/kg</b>

##### **Duplication**

<b>Laboratory Identification</b>	<b>( % RSD )</b>	<b>Limit ( % RSD )</b>
<b>11494-4202</b>	<b>&lt;0.1</b>	<b>15.0</b>

Approved by:   
Date: **7/15/96**

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