

3R - 61

# REPORTS

DATE:

2/6/1995

**iml**  
Inter·Mountain  
Laboratories, Inc.

2506 West Main Street  
Farmington, New Mexico 87401  
Tel. (505) 326-4737

6 February 1995

Chris Eustice  
State of NM - OCD  
2040 S. Pacheco  
Santa Fe, NM 87505

Mr. Eustice:

Enclosed please find the report for the soil samples received by our laboratory for analysis on February 1, 1995.

If you have any questions about the results of these analyses, please don't hesitate to call me at your convenience.

Sincerely,



Anna Schaerer  
Organic Analyst/IML-Farmington

Enclosure

xc: File

## State of NM - OCD

### Case Narrative

On February 1, 1995, five soil samples were submitted to Inter-Mountain Laboratories - Farmington for analysis. The samples were received intact. Analysis for Total Petroleum Hydrocarbons (TPH) was performed on the samples as per the accompanying Chain of Custody form.

The samples were extracted by Method 3510, "Separatory Funnel Liquid - Liquid Extraction", with 1,1,2-trichloro 1,2,2-trifluoroethane (Freon) as the extraction solvent. Analysis was by Method 418.1, "Total Recoverable Petroleum Hydrocarbons", using a Beckman Acculab 10 Infrared Spectrophotometer. Petroleum hydrocarbons were detected in the samples as indicated in the enclosed report.

It is the policy of this laboratory to employ, whenever possible, preparatory and analytical methods which have been approved by regulatory agencies. The methods used in the analysis of the sample reported herein are found in Test Methods for Evaluation of Solid Waste, SW-846, USEPA, 1986 and Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1983.

Quality control reports appear at the end of the analytical package and may be identified by title. If there are any questions regarding the information presented in this package, please feel free to call at your convenience.

Sincerely,



Anna Schaerer  
Organic Analyst

**INTER-MOUNTAIN LABORATORIES, INC.**

2506 West Main Street  
Farmington, New Mexico 87401

(505) 326-4737

2506 W. Main Street  
Farmington, New Mexico 87401

CITIZEN ORDER DIVISION  
RECEIVED

02/06/95

FEB 8 8 52

Division: 03

Packing Slip: 1098

Customer: NMOCD

Customer No: 0000036

Customer P.O.: 95-521.07-039

Attn: Chris Eustice

Sales Code	Description	Quantity	Price	Amount
	J. Bergin #1 Well Site Rcd:02/01/95 Lab# G2551-2555 PS# 1098			
301300	TPH - Method 418.1	5.00	40.00	200.00

Total: \$200.00

Packing Slip is for internal use only,  
Invoice will be sent from Corporate Office.

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

LABORATORY SAMPLE RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	REMARKS					
		J. Bergin #1 Well Site								
SAMPLERS: (Signature)				TPH - 418.1						
Olson, Faust										
DATE	TIME	STATION LOCATION								
950131	0945	Rye hole #1 - 4 foot soil		1	1					
"	1015	" - 9 foot soil		1	1					
"	1100	" - 14 foot soil		1	1					
"	1230	" - 19 foot soil		1	1					
"	1345	Rye hole #2 - 19 foot soil		1	1					
Relinquished by: (Signature)		Date / Time	Received by: (Signature)		SEALS INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO					
L.O. Olson		2/1/95 9:30	Danna Schaefer 2/1/95 9:30							
Relinquished by: (Signature)		Date / Time	Received by: (Signature)		: (Signature)					
Relinquished by: (Signature)		Date / Time	Received for Laboratory by: (Signature)		Date / Time	Remarks				

TOTAL PETROLEUM HYDROCARBONS  
EPA METHOD 418.1State of NM - OCDProject: J. Bergin #1 Well Site  
Matrix: Soil  
Condition: Intact/CoolDate Reported: 02/06/95  
Date Sampled: 01/31/95  
Date Received: 02/01/95  
Date Extracted: 02/02/95  
Date Analyzed: 02/03/95

Sample ID	Lab ID	Result (mg/kg)	Detection Limit
Auger Hole #1 4' Soil	2551	ND	20
Auger Hole #1 9' Soil	2552	ND	20
Auger Hole #1 14' Soil	2553	ND	20
Auger Hole #1 19' Soil	2554	ND	20
Auger Hole #2 19' Soil	2555	ND	20

ND - Analyte not detected at stated detection level.

## References:

**Method 418.1:** Petroleum Hydrocarbons, Total Recoverable, USEPA Chemical Analysis of Water and Waste, 1978.**Method 3550:** Ultrasonic Extraction of Non-Volatile and Semi-Volatile Organic Compounds from Solids, USEPA SW-846, Rev. 1, July 1992.Analyst: Anna SchaeferReviewed: MK

# Quality Assurance / Quality Control

TOTAL PETROLEUM HYDROCARBONS  
Quality Assurance/Quality Control

## State of NM - OCD

Project: J. Bergin #1 Well Site  
Matrix: Soil  
Condition: Intact/CoolDate Reported: 02/06/95  
Date Sampled: 01/31/95  
Date Received: 02/01/95  
Date Extracted: 02/02/95  
Date Analyzed: 02/03/95

## Duplicate Analysis

Lab ID	Sample Result	Duplicate Result	Units	% Difference
2551	ND	ND	mg/L	NA

## Matrix Spike Analysis

Lab ID	Sample Result (mg/L)	Spike Result (mg/L)	Spike Added (mg/L)	% Recovery
2555	ND	167.1	200	83.6%

## Method Blank Analysis

Lab ID	Result	Units	Detection Limit
MB	ND	mg/L	20

## Known Analysis

Lab ID	Found Conc.	Known Conc.	Units	Percent Recovery
TPH QC	26.3	21.0	mg/L	125%

## References:

**Method 418.1:** Petroleum Hydrocarbons, Total Recoverable, USEPA Chemical Analysis of Water and Waste, 1978.

**Method 3510:** Separatory Funnel Liquid - Liquid Extraction, USEPA SW-846, Test Methods for Evaluating Solid Waste, Rev. 1, July, 1992.

Analyst: *dmmschaeer*Reviewed: *mk*

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

LABORATORY SAMPLE RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	REMARKS							
950131		J. Bergin #1 Well Site										
SAMPLERS: (Signature)				TPH - 4/8.1								
Olson, Faust												
DATE	TIME	STATION LOCATION										
950131	0945	Ayer hole #1 - 4 foot soil		1	1							
"	1015	" - 9 foot soil		1	1							
"	1100	" - 14 foot soil		1	1							
"	1230	" - 19 foot soil		1	1							
"	1345	Ayer hole #2 - 19 foot soil		1	1							
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		SEALS INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO						
Zed Olson		2/1/95 9:30		Danna Schaefer 2/1/95 9:30								
Relinquished by: (Signature)		Date / Time		Received by: (Signature)								
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks				

**TOTAL PETROLEUM HYDROCARBONS  
EPA METHOD 418.1**

**State of NM - OCD**

Project: J. Bergin #1 Well Site  
Matrix: Soil  
Condition: Intact/Cool

Date Reported: 02/08/95  
Date Sampled: 01/31/95  
Date Received: 02/01/95  
Date Extracted: 02/02/95  
Date Analyzed: 02/03/95

Sample ID	Lab ID	Result (mg/kg)	Detection Limit
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References:

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Method 3550: Ultrasonic Extraction of Non-Volatile and Semi-Volatile Organic Compounds from Solids, USEPA SW-846, Rev. 1, July 1992.

Analyst: Anna Schaefer

Reviewed: mk

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Sincerely,



Anna Schaefer  
Organic Analyst