

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Risk-OK  
Baback

Submit 1 copy to  
appropriate  
District Office  
and 1 copy to  
the Santa Fe Office

(Revised 3/9/94)

30-045-25506 ✓  
**PIT REMEDIATION AND CLOSURE REPORT**

Operator: Calpine Natural Gas Company L.P. Telephone: 713-335-4000

Address: 1000 Louisiana, Suite 800, Houston, Texas 77002

Facility Or: Morton No. 1 - Dehydration Pit

Well Name

Location: Unit or Qtr/Qtr Sec SW NE Sec 23 T 30N R 14W County San Juan

Pit Type: Separator \_\_\_\_\_ Dehydrator X Other \_\_\_\_\_

Land Type: BLM X, State \_\_\_\_\_, Fee \_\_\_\_\_ Other \_\_\_\_\_

Pit Location: Pit dimensions: length 20 ft., width 20 ft., depth 7.0 ft.

(Attach diagram)

Reference: wellhead \_\_\_\_\_, other dehydration contact tower

Footage from reference: 14 ft

Direction from reference: 15 Degrees \_\_\_\_\_ East North \_\_\_\_\_  
of  
X West South X

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) <u>10</u>
high water elevation of		
ground water.)		

Wellhead Protection Area:	Yes (20 points)
(Less than 200 feet from a private	No ( 0 points) <u>0</u>
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) <u>0</u>
irrigation canals and ditches.)		

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: -- Date completed: 03/01/02

Remediation Method: Excavation X Approx. cubic yards 15  
(Check all appropriate sections.) Landfarmed X Insitu Bioremediation \_\_\_\_\_  
Other \_\_\_\_\_

Remediation Location: Onsite ☒ Offsite \_\_\_\_\_  
(i.e. landfarmed onsite,  
name and location of  
offsite facility) \_\_\_\_\_

General Description of Remedial Action: Excavated to bedrock. Spread in landfarm area (see Morton No. 1 plat)

Fertilized; tilled landfarm area after each rain. Landfarm area sampled 11/26/02 by Walsh Engineering -  
analysis follows:

GRO - Not Detected: DRO - 25.4 mg/kg

Benzene, ethylbenzene, toluene, xylenes - Not Detected (see attached iina ba laboratory report)

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

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

Sample location See attached plat.

Sample depth 7.0 ft

Sample Date 03/06/02 Sample time 1110

Sample Results

Benzene(ppm) ND

Total BTEX(ppm) ND

Field headspace(ppm) NA

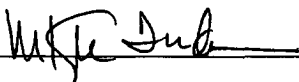
TPH btm - 1,250 ppm; sides - 352 ppm

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.

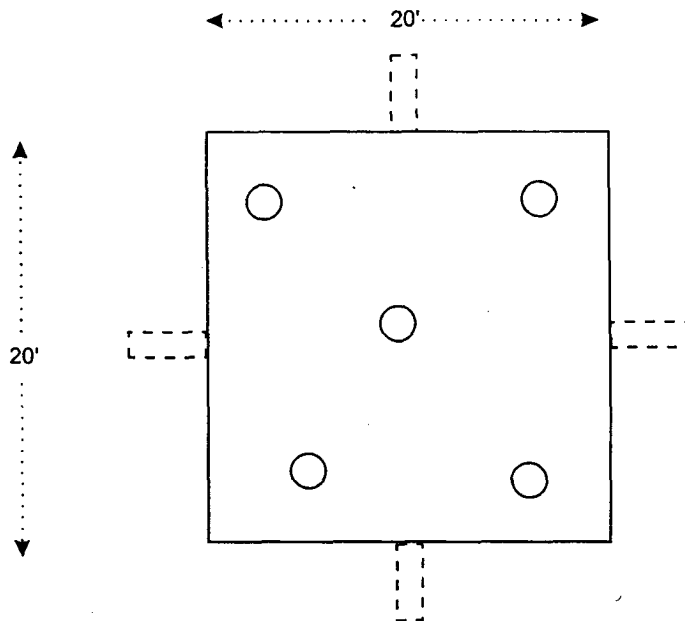
Date January 6, 2003

Signature



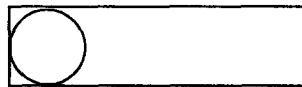
Printed Name - M. Kyle Tudor  
and Title - Environmental Consultant

# PLAN VIEW



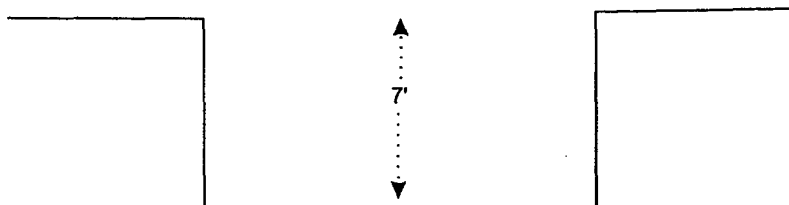
○ Pit bottom samples - composited

--- Pit side samples - composited  
 samples taken from 2.5'-3' into side



Dehydrator

# PIT PROFILE



Prepared by:  
 CEG, Inc.  
 Houston, Texas

Date:  
 03/16/2002

PIT CLOSURE REPORT  
 Calpine Natural Gas Company L.P.  
 San Juan County, New Mexico

MORTON NO. 1  
 DEHY PIT  
 LEASE NO.: NM 26357

Client: Carr Environmental Group, Inc  
Project: Organics  
Sample ID: Mort 1 Dehy Bottom  
Lab ID: 0302W00770  
Matrix: Soil  
Condition: Cool/Intact

Date Reported: 03/19/02  
Date Sampled: 03/06/02  
Date Received: 03/07/02  
Date Extracted: N/A

Parameter	Analytical Result	PQL	Units
<b>BTEX - METHOD 8021B</b>			
Benzene	<5	5	mg/Kg
Toluene	<5	5	mg/Kg
Ethylbenzene	<5	5	mg/Kg
Xylenes (total)	<15	15	mg/Kg
Total BTEX	<30	30	mg/Kg

Quality Control - Surrogate Recovery	%	QC Limits
4-Bromofluorobenzene(SUR-8021B)	106	70 - 130
a,a,a-Trifluorotoluene(SUR-8021B)	95	70 - 130

Reference: Method 8021b, Volatile Organic Compounds, Test Methods for Evaluating  
Solid Waste, Physical/Chemical Methods, United States Environmental  
Protection Agency, SW-846, Volume IB.

Reviewed By: 

William Lipps

Analyst: \_\_\_\_\_

Client: Carr Environmental Group, Inc  
Project: Organics  
Sample ID: Mort 1 Dehy Bottom  
Lab ID: 0302W00770  
Matrix: Soil  
Condition: Cool/Intact

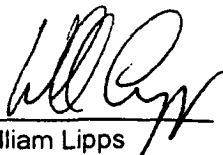
Date Reported: 03/19/02  
Date Sampled: 03/06/02  
Date Received: 03/07/02  
Date Extracted: N/A

Parameter	Analytical Result	PQL	Units
<b>DRO - METHOD 8015M</b>			
Diesel Range Organics (C10 - C22)	1,129	50	mg/Kg

Quality Control - Surrogate Recovery	%	QC Limits
o-Terphenyl(SUR-8015)	118	70 - 130

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

Reviewed By:

  
William Lipps

Analyst: \_\_\_\_\_

Client: Carr Environmental Group, Inc  
Project: Organics  
Sample ID: Mort 1 Dehy Bottom  
Lab ID: 0302W00770  
Matrix: Soil  
Condition: Cool/Intact

Date Reported: 03/19/02  
Date Sampled: 03/06/02  
Date Received: 03/07/02  
Date Extracted: N/A

Parameter	Analytical Result	PQL	Units
<b>GRO - METHOD 8015M</b>			
Gasoline Range Organics(C6-C10)	121	50	mg/Kg

Quality Control - Surrogate Recovery	%	QC Limits
4-Bromofluorobenzene(SUR-8015B)	103	70 - 130

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

Reviewed By: 

William Lipps

Analyst: \_\_\_\_\_

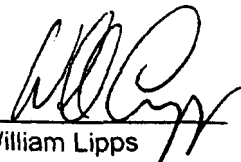
Client: Carr Environmental Group, Inc  
Project: Organics  
Sample ID: Mort 1 Dehy Bottom  
Lab ID: 0302W00770  
Matrix: Soil  
Condition: Cool/Intact

Date Reported: 03/19/02  
Date Sampled: 03/06/02  
Date Received: 03/07/02  
Date Extracted: N/A  
Date Analyzed: 03/19/02

Parameter	Analytical Result	PQL	Units
<b>TOTAL TPH</b>			
Total Petroleum Hydrocarbons (C6-C22)	1,250	100	mg/Kg

Reference: Method 8015AZ, C10 - C32 Hydrocarbons in Soil, Arizona Department of Health Services, Revision - 1.0, 09/25/98.

Reviewed By:

  
William Lipps

Analyst: \_\_\_\_\_

## Inter-Mountain Laboratories, Inc.

2508 West Main Street  
Farmington, NM 87401

Client: Carr Environmental Group, Inc  
Project: Organics  
Sample ID: Mort 1 Dehy Sides  
Lab ID: 0302W00771  
Matrix: Soil  
Condition: Cool/Intact

Date Reported: 03/29/02  
Date Sampled: 03/06/02  
Date Received: 03/07/02  
Date Extracted: N/A

Parameter	Analytical Result	PQL	Units
<b>BTEX - METHOD 8021B</b>			
Benzene	<5	5	mg/Kg
Toluene	<5	5	mg/Kg
Ethylbenzene	<5	5	mg/Kg
Xylenes (total)	<15	15	mg/Kg
Total BTEX	<30	30	mg/Kg

Quality Control - Surrogate Recovery	%	QC Limits
4-Bromofluorobenzene(SUR-8021B)	114	70 - 130
a,a,a-Trifluorotoluene(SUR-8021B)	96	70 - 130

Reference: Method 8021b, Volatile Organic Compounds, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, United States Environmental Protection Agency, SW-846, Volume IB.

Reviewed By: \_\_\_\_\_  
William Lipps

Analyst: SW



Inter-Mountain Laboratories, Inc.

2506 West Main Street  
Farmington, NM 87401

Client: Carr Environmental Group, Inc  
Project: Organics  
Sample ID: Mort 1 Dehy Sides  
Lab ID: 0302W00771  
Matrix: Soil  
Condition: Cool/Intact

Date Reported: 03/29/02  
Date Sampled: 03/06/02  
Date Received: 03/07/02  
Date Extracted: N/A

Parameter	Analytical Result	PQL	Units
<b>DRO - METHOD 8015M</b>			
Diesel Range Organics (C10 - C22)	259	50	mg/Kg

Quality Control - Surrogate Recovery	%	QC Limits
o-Terphenyl(SUR-8015)	108	70 - 130

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

Reviewed By: \_\_\_\_\_  
William Lipps

Analyst: 

## Inter-Mountain Laboratories, Inc.

2506 West Main Street  
Farmington, NM 87401

Client: Carr Environmental Group, Inc  
Project: Organics  
Sample ID: Mort 1 Dehy Sides  
Lab ID: 0302W00771  
Matrix: Soil  
Condition: Cool/Intact

Date Reported: 03/29/02  
Date Sampled: 03/06/02  
Date Received: 03/07/02  
Date Extracted: N/A

Parameter	Analytical Result	PQL	Units
<b>GRO - METHOD 8015M</b>			
Gasoline Range Organics(C6-C10)	93	50	mg/Kg

Quality Control - Surrogate Recovery	%	QC Limits
4-Bromofluorobenzene(SUR-8015B)	102	70 - 130

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

Reviewed By: \_\_\_\_\_  
William Lipps

Analyst: 

2506 West Main Street  
Farmington, NM 87401

Client: Carr Environmental Group, Inc  
Project: Organics  
Sample ID: Mort 1 Dehy Sides  
Lab ID: 0302W00771  
Matrix: Soil  
Condition: Cool/Intact

Date Reported: 03/29/02  
Date Sampled: 03/06/02  
Date Received: 03/07/02  
Date Extracted: N/A  
Date Analyzed: 03/29/02

Parameter	Analytical Result	PQL	Units
TOTAL TPH			
Total Petroleum Hydrocarbons (C6-C22)	352	100	mg/Kg

Reference: Method 8015AZ, C10 - C32 Hydrocarbons in Soil, Arizona Department of Health Services, Revision - 1.0, 09/25/98.

Reviewed By: \_\_\_\_\_  
William Lipps

Analyst:  \_\_\_\_\_