

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  
Bedrock

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

(Revised 3/9/94)

30-045-25766 ✓

**PIT REMEDIATION AND CLOSURE REPORT**

Operator: <u>Calpine Natural Gas Company L.P.</u> Telephone: <u>713-335-4000</u>		
Address: <u>1000 Louisiana, Suite 800, Houston, Texas 77002</u>		
Facility Or: <u>Morton No. 2 - Dehydrator Pit</u> Well Name		
Location: Unit or Qtr/Qtr Sec <u>NW SE</u> Sec <u>23</u> T <u>30N</u> R <u>14W</u> County <u>San Juan</u>		
Pit Type: Separator <u>    </u> Dehydrator <u>X</u> Other <u>    </u>		
Land Type: BLM <u>X</u> , State <u>    </u> , Fee <u>    </u> Other <u>    </u>		
Pit Location: Pit dimensions: length <u>20 ft.</u> , width <u>14 ft.</u> , depth <u>4.5 ft.</u> (Attach diagram) Reference: wellhead <u>    </u> , other <u>contact tower of dehydration unit</u> Footage from reference: <u>18 ft.</u> Direction from reference: <u>30</u> Degrees <u>    </u> East North <u>    </u> of <u>X</u> West South <u>X</u>		
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) ( 0 points) <u>10</u>
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) <u>0</u>
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches.)	Less than 200 feet 200 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) ( 0 points) <u>0</u>
RANKING SCORE (TOTAL POINTS): <u>10</u>		

Date Remediation Started: <u>    </u> -- <u>    </u> Date completed: <u>03/01/02</u>	
Remediation Method: Excavation <u>X</u> (Check all appropriate sections.)	Approx. cubic yards <u>8</u>
Landfarmed <u>X</u>	Insitu Bioremediation <u>    </u>
Other <u>    </u>	

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

General Description of Remedial Action: Excavated to bedrock. Spread soil in landfarm area (see Morton No. 2 plat). Fertilized; tilled landfarm area after each rain. Landfarm area sampled 11/26/02 by Walsh Engineering - analysis follows:

GRO - Not Detected; DRO - 38.3 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 4.5 ft

Sample Date 03/06/02 Sample time 1640

Sample Results

Benzene(ppm) ND

Total BTEX(ppm) ND

Field headspace(ppm) NA


TPH btm - 1,274 ppm; sides - samples not taken; auger refusal

Ground Water Sample: Yes \_\_\_\_\_ No ☒ (If yes, attach sample results)

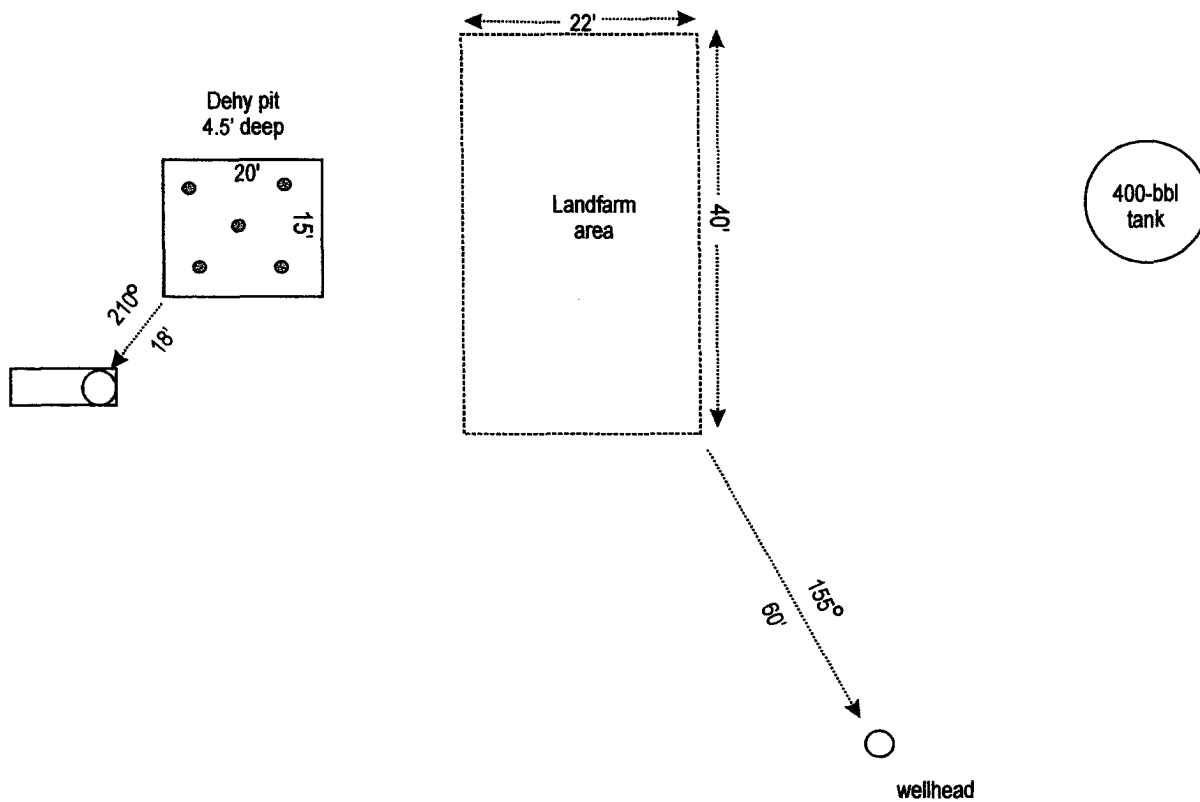
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Date January 6, 2002

Signature



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



#### LEGEND

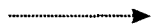


Pit bottom samples - composited



Pit side samples not taken;  
refusal at surface of 4 side walls

180°



46'

Magnetic azimuth and distance to

**NOT TO SCALE**

Prepared by:  
CEG, Inc.  
Houston, Texas

Date: 08/02/02

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

**MORTON NUMBER 2**

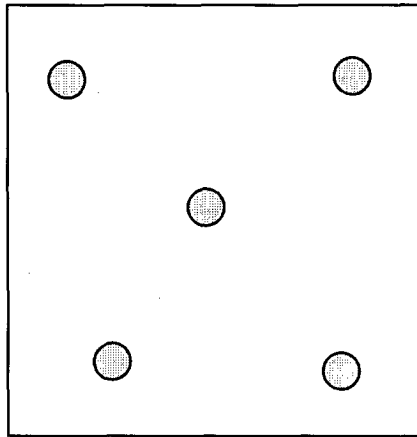
DEHY PIT  
LEASE NO.: NM26357

# PLAN VIEW

20'



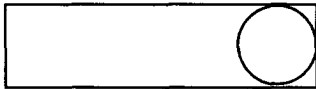
15'



Pit bottom samples - composited



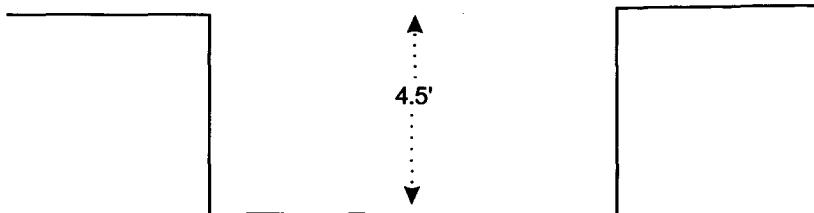
Pit side samples - not taken; refusal at surface of 4 side walls



Dehydrator

# PIT PROFILE

4.5'



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. 2  
DEHY PIT  
LEASE NO.: NM 26357

Client: Carr Environmental Group, Inc  
Project: Organics  
Sample ID: Mort 2 Dehy Bottom  
Lab ID: 0302W00776  
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)	105	70 - 130
a,a,a-Trifluorotoluene(SUR-8021B)	91	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 2 Dehy Bottom  
Lab ID: 0302W00776  
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)	1,104	50	mg/Kg

Quality Control - Surrogate Recovery	%	QC Limits
o-Terphenyl(SUR-8015)	135 **	70 - 130

\*\* - Surrogate Recovery failed QC Limits due to matrix interference.

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 2 Dehy Bottom  
Lab ID: 0302W00776  
Matrix: Soil  
Condition: Cool/Intact

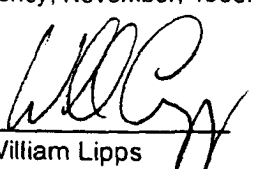
Date Reported: 03/19/02  
Date Sampled: 03/06/02  
Date Received: 03/07/02  
Date Extracted: N/A

Parameter	Analytical Result	PQL	Units
<b>GRO - METHOD 8015M</b>			
Gasoline Range Organics(C6-C10)	170	50	mg/Kg

Quality Control - Surrogate Recovery	%	QC Limits
4-Bromofluorobenzene(SUR-8015B)	101	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: \_\_\_\_\_

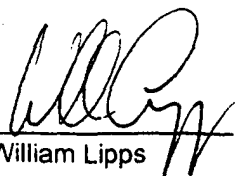
Client: Carr Environmental Group, Inc  
Project: Organics  
Sample ID: Mort 2 Dehy Bottom  
Lab ID: 0302W00776  
Matrix: Soil  
Condition: Cool/Intact

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)	1,274	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: \_\_\_\_\_



612 E. Murray Drive  
Farmington, NM 87401

Off: (505) 327-1072

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P.O. Box 2606  
Farmington, NM 87499

Fax: (505) 327-1496

Date: 04-Dec-02

**CLIENT:** Calpine  
**Work Order:** 0211034  
**Project:** Landfarm  
**Lab ID:** 0211034-004A

**Client Sample Info:** Landfarm  
**Client Sample ID:** Morten #2  
**Collection Date:** 11/26/2002 3:15:00 PM  
**Matrix:** SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				Analyst: JEM
T/R Hydrocarbons: C10-C28	38.3	25.0		mg/Kg	1	12/2/2002
<b>GASOLINE RANGE ORGANICS</b>		<b>SW8015B</b>				Analyst: JEM
T/R Hydrocarbons: C6-C10	ND	4.50		mg/Kg	25	12/1/2002
<b>AROMATIC VOLATILES BY GC/PID</b>		<b>SW8021B</b>				Analyst: JEM
Benzene	ND	25		µg/Kg	25	12/2/2002
Ethylbenzene	ND	25		µg/Kg	25	12/2/2002
m,p-Xylene	ND	50		µg/Kg	25	12/2/2002
o-Xylene	ND	25		µg/Kg	25	12/2/2002
Toluene	ND	50		µg/Kg	25	12/2/2002

**Qualifiers:**

ND - Not Detected at the Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above Upper Quantitation Limit - UQL