

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

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

(Revised 3/9/94)

30-045-26184 ✓  
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: Coolidge No. 1 - Separator Pit

Well Name

Location: Unit or Qtr/Qtr Sec NE NE Sec 22 T 30N R 14W County San Juan

Pit Type: Separator X Dehydrator        Other       

Land Type: BLM X, State       , Fee        Other       

Pit Location: Pit dimensions: length 20 ft., width 15 ft., depth 7.0 ft.

(Attach diagram)

Reference: wellhead       , other water filter at stack pack

Footage from reference: 20 ft.

Direction from reference: 75 Degrees X East North X  
of  
       West South       

Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)
	50 feet to 99 feet	(10 points)
	Greater than 100 feet	( 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	(20 points)
	200 feet to 1000 feet	(10 points)
	Greater than 1000 feet	( 0 points) <u>0</u>

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 soil in landfarm area (see Coolidge 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 – 36.3 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 7.0 ft

Sample Date 03/06/02 Sample time 1305

Sample Results

Benzene(ppm) btm – 8; sides - ND

Total BTEX(ppm) btm – 32; sides - ND

Field headspace(ppm) NA

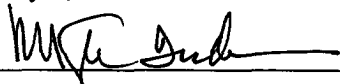
TPH btm – 589 ppm; sides – 391 ppm

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.

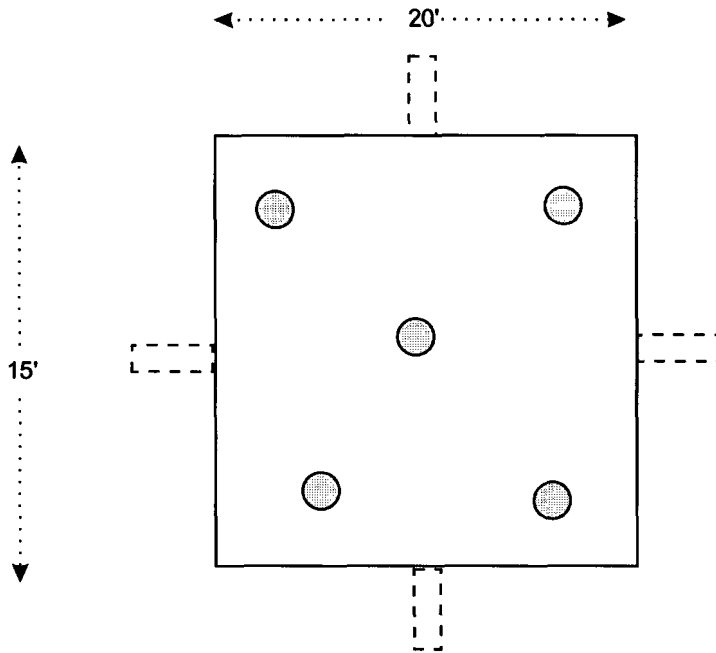
Date January 6, 2002

Signature



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

# PLAN VIEW



Stack pack



Water filter

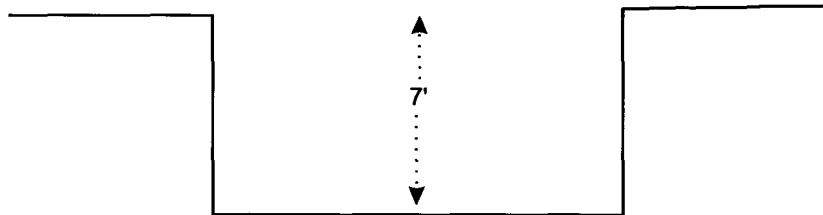


Pit bottom samples - composited; taken at top bedrock



Pit side samples - composited samples taken from 2.5'-3' into side; refusal at 1' on south side

# PIT PROFILE



Excavated to bedrock

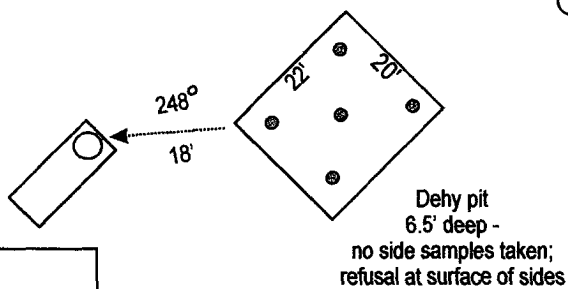
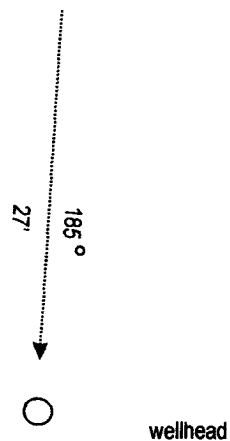
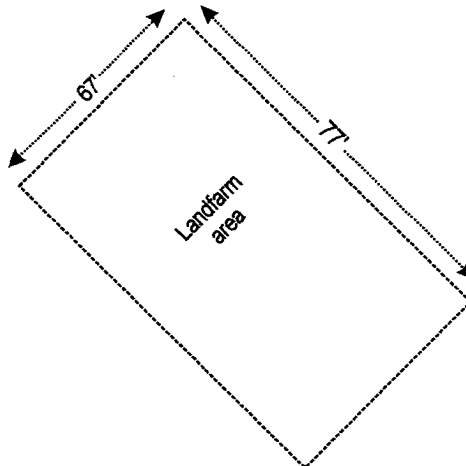
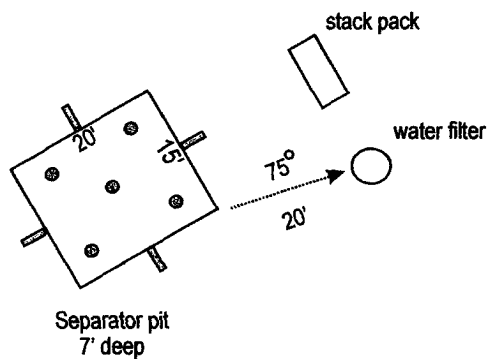
Prepared by:  
CEG, Inc.  
Houston, Texas

Date:  
03/16/2002

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

COOLIDGE NO. 1  
SEPARATOR PIT

LEASE NO.: NM 15272



#### LEGEND

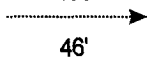


Pit bottom samples - composited



Pit side samples - composited;  
samples taken from 2.5'-3' into pit side -  
refusal at 1' south side of separator pit

180°



Magnetic azimuth and distance to

46'

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

COLLIDGE NUMBER 1  
DEHY PIT &  
SEPARATOR PIT  
LEASE NO.: NM15272

Client: Carr Environmental Group, Inc  
Project: Organics  
Sample ID: Cool Sep Bottom  
Lab ID: 0302W00772  
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	8	5	mg/Kg
Toluene	<5	5	mg/Kg
Ethylbenzene	<5	5	mg/Kg
Xylenes (total)	16	15	mg/Kg
Total BTEX	32	30	mg/Kg

Quality Control - Surrogate Recovery	%	QC Limits
4-Bromofluorobenzene(SUR-8021B)	105	70 - 130
a,a,a-Trifluorotoluene(SUR-8021B)	93	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: Cool Sep Bottom  
Lab ID: 0302W00772  
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)	445	50	mg/Kg

Quality Control - Surrogate Recovery	%	QC Limits
o-Terphenyl(SUR-8015)	111	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: Cool Sep Bottom  
Lab ID: 0302W00772  
Matrix: Soil  
Condition: Cool/Intact

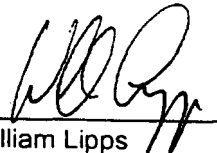
Date Reported: 03/19/02  
Date Sampled: 03/06/02  
Date Received: 03/07/02  
Date Extracted: N/A

Parameter	Analytical Result	PQL	Units
<b>GRO - METHOD 8015M</b>			
Gasoline Range Organics(C6-C10)	144	50	mg/Kg

Quality Control - Surrogate Recovery	%	QC Limits
4-Bromofluorobenzene(SUR-8015B)	100	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: Cool Sep Bottom  
Lab ID: 0302W00772  
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
TOTAL TPH			
Total Petroleum Hydrocarbons (C6-C22)	589	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

*iiná bá*

P.O. Box 2606  
Farmington, NM 87499

Fax: (505) 327-1496

Date: 04-Dec-02

CLIENT: Calpine  
Work Order: 0211034  
Project: Landfarm  
Lab ID: 0211034-002A

Client Sample Info: Landfarm  
Client Sample ID: Coolidge Com #1  
Collection Date: 11/26/2002 2:25:00 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	36.3	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