

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

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

(Revised 3/9/94)

30-045-08864✓
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>Farmington No. 14</u> Separation Pit		
Well Name		
Location: Unit or Qtr/Qtr Sec <u>B NW NE</u> Sec <u>4</u> T <u>29N</u> R <u>13W</u> County <u>San Juan</u>		
Pit Type: Separator <u>X</u> Dehydrator Other		
Land Type: BLM <u>X</u> , State, Fee Other <u>X</u> <u>Surface</u>		
Pit Location: Pit dimensions: length <u>15 ft.</u> , width <u>10 ft.</u> , depth <u>8 ft.</u> (Attach diagram) Reference: wellhead, other <u>spherical separator</u> Footage from reference: <u>18 ft.</u> Direction from reference: <u>1</u> Degrees East North 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: -- Date completed: 03/01/02

Remediation Method: Excavation X
(Check all appropriate sections.) Landfarmed X

Approx. cubic yards 10

Insitu Bioremediation

Other

Remediation Location: Onsite X Offsite _____
(i.e. landfarmed onsite,
name and location of
offsite facility) _____

General Description of Remedial Action: Excavated to 8 ft. Spread soil in landfarm area (see Farmington No. 1-4 plat). Fertilized; tilled landfarm area after each rain. Landfarm area sampled 11/26/02 by Walsh Engineering - analysis follows:

GRO - Not Detected; DRO 26.4 mg/kg

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

Ground Water Encountered: No X 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 8 ft

Sample Date 03/07/02 Sample time 0900

Sample Results

Benzene(ppm) ND

Total BTEX(ppm) ND

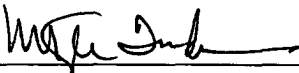
Field headspace(ppm) NA

TPH btm - 263 ppm; sides - 294 ppm

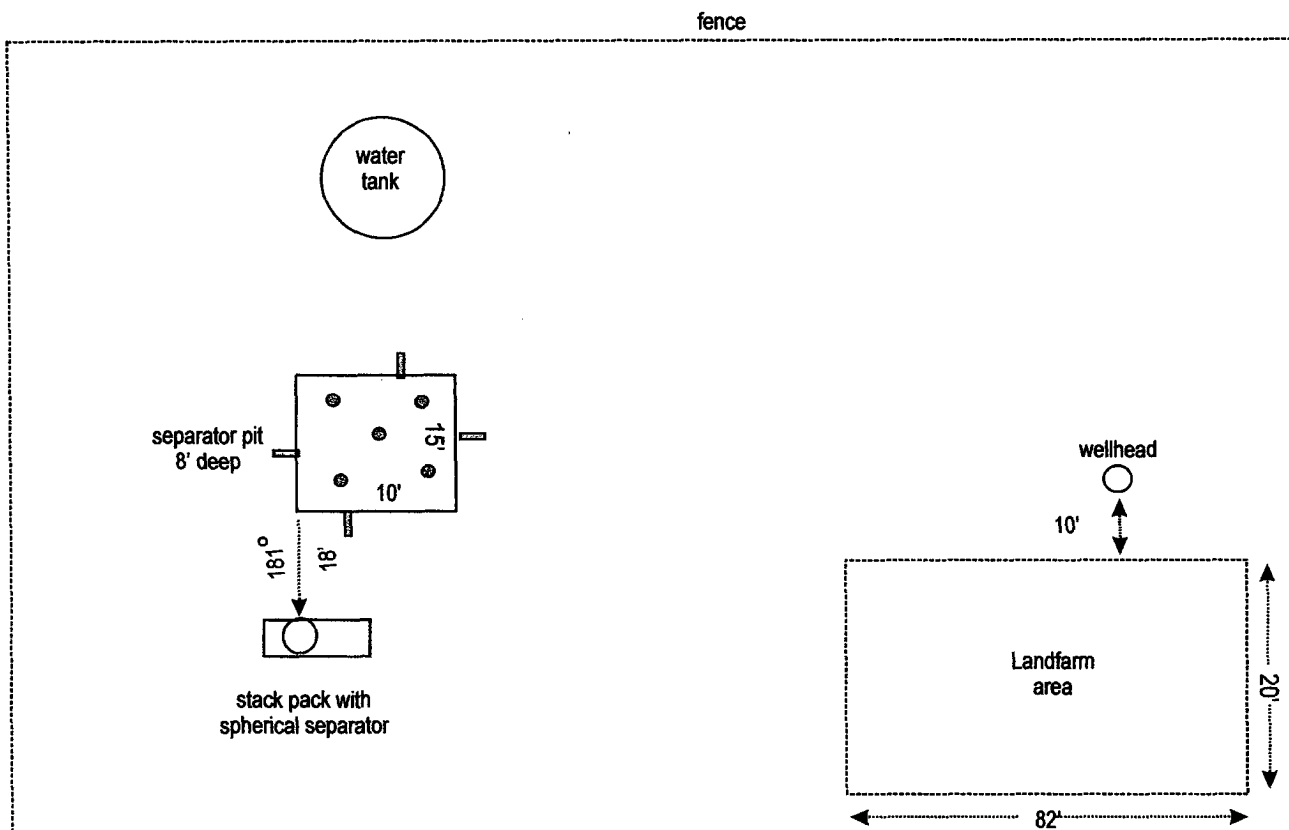
Ground Water Sample: Yes _____ No X (If yes, attach sample results)

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



LEGEND



Pit bottom samples - composited



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

180°

46'

→ Magnetic azimuth and distance to

NOT TO SCALE

Prepared by:
CEG, Inc.
Houston, Texas

Date:
08/02/02

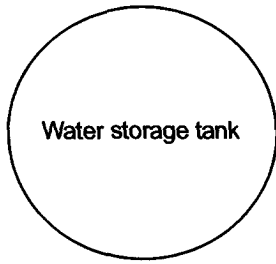
PIT CLOSURE REPORT
Calpine Natural Gas Company L.P.
San Juan County, New Mexico

FARMINGTON NUMBER 1-4

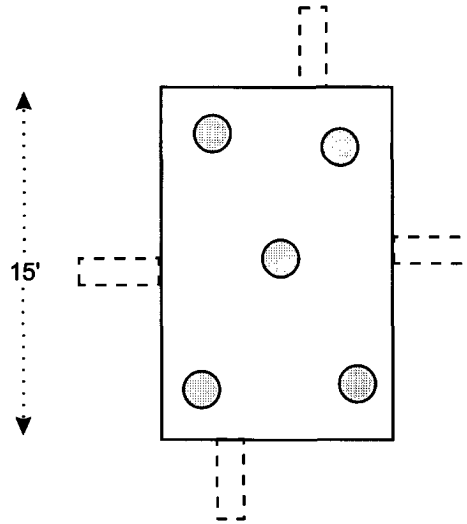
SEPARATOR PIT

LEASE NO.: SF078643A

PLAN VIEW



10'



Pit bottom samples - composited

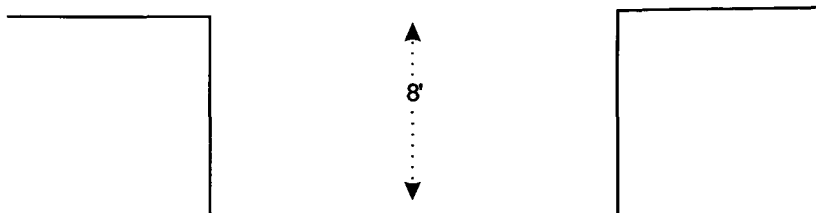


Pit side samples - composited
samples taken from 2.5'-3' into side



Stack pack w/spherical separator

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

**FARMINGTON NO. 1-4
SEPARATOR PIT**
LEASE NO.: SF 078643A

Client: Carr Environmental Group, Inc
Project: Organics
Sample ID: Farm Sep Bottom
Lab ID: 0302W00777
Matrix: Soil
Condition: Cool/Intact

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

Parameter	Analytical Result	PQL	Units
BTEX - METHOD 8021B			
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)	101	70 - 130
a,a,a-Trifluorotoluene(SUR-8021B)	98	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: Farm Sep Bottom
Lab ID: 0302W00777
Matrix: Soil
Condition: Cool/Intact

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

Parameter	Analytical Result	PQL	Units
DRO - METHOD 8015M			
Diesel Range Organics (C10 - C22)	149	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: _____

Client: Carr Environmental Group, Inc
Project: Organics
Sample ID: Farm Sep Bottom
Lab ID: 0302W00777
Matrix: Soil
Condition: Cool/Intact

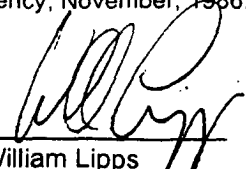
Date Reported: 03/19/02
Date Sampled: 03/07/02
Date Received: 03/07/02
Date Extracted: N/A

Parameter	Analytical Result	PQL	Units
GRO - METHOD 8015M			
Gasoline Range Organics(C6-C10)	114	50	mg/Kg

Quality Control - Surrogate Recovery	%	QC Limits
4-Bromofluorobenzene(SUR-8015B)	106	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: _____

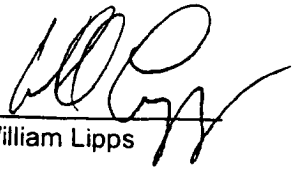
Client: Carr Environmental Group, Inc
Project: Organics
Sample ID: Farm Sep Bottom
Lab ID: 0302W00777
Matrix: Soil
Condition: Cool/Intact

Date Reported: 03/19/02
Date Sampled: 03/07/02
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)	263	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: 0211034-005A

Client Sample Info: Landfarm
Client Sample ID: Farmington 1-4
Collection Date: 11/26/2002 4:50:00 PM
Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: JEM
T/R Hydrocarbons: C10-C28	26.4	25.0		mg/Kg	1	12/2/2002
GASOLINE RANGE ORGANICS		SW8015B				Analyst: JEM
T/R Hydrocarbons: C6-C10	ND	4.50		mg/Kg	25	12/1/2002
AROMATIC VOLATILES BY GC/PID		SW8021B				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

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MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT