

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

OK
SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE
(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: Burlington Resources Telephone: (505) 326-9700
Address: 3535 E. 30th Farmington NM 87402
Facility or: Riddle A #8
Well Name _____
Location: Unit or Qtr/Qtr Sec D Sec 24 T 30N R 9W County San Juan
Pit Type: Separator _____ Dehydrator _____ Other Blow Pit
Land Type: BLM X, State _____, Fee _____, Other _____

Pit Location: Pit dimensions: length 9', width 16', depth 6'
(Attach diagram) Reference: wellhead X, other _____
Footage from reference: 8'
Direction from reference: 35 Degrees X East North X
of _____
West South _____

Depth To Ground Water: RECEIVED Less than 50 feet (20 points)
(Vertical distance from 50 feet to 99 feet (10 points)
contaminants to seasonal SEP - 3 1999 Greater than 100 feet (0 Points) 20
high water elevation of
ground water)

OIL CON. DIV.
DIST. 3
Wellhead Protection Area: Yes (20 points)
(Less than 200 feet from a private No (0 points) 0
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) 0
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: 8/3/99 Date Completed: 8/3/99

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

Remediation Location: Onsite Offsite
(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: Sample collected 4' below
the bottom of the pit tested clean. Pit was backfilled
with clean soils.

Ground Water Encountered: No X Yes Depth

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

Sample depth 4' below pit bottom

Sample date 8/3/99 Sample time 9:30 am

Sample Results

Benzene(ppm)

Total BTEX(ppm)

Field headspace(ppm) 1

TPH ND

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 8/18/99

SIGNATURE Ed Hasely

PRINTED NAME
AND TITLE

Ed Hasely
Sr. Staff Environmental Rep.

GENERAL

WELL NAME: Riddle A #8

WELL NUMBER:

DP NO.:

OPERATOR NAME: Burlington

PIL DISTRICT:

COORDINATES: TOWNSHIP 30N RANGE 9W SECTION 24 LETTER D

PIT TYPE: DEHYDRATOR ☐ SEPARATOR ☐ BLOW PIT ☒ OTHER:CATHODIC PROTECTION WELL: ☐ YES ☐ NO

SITE ASSESSMENT DATE: 8-3-99

MOI FOREMAN NO.

AREA:

NMOCD ZONE: (from NMOCD Maps): Inside ☒ Outside ☐LAND TYPE: BLM ☒ (1) STATE ☐ (2) FEE ☐ (3) INDIAN:

DEPTH TO GROUNDWATER: LESS THAN 50 FT (1) ☒ (20 POINTS)
 50 FT TO 99 FT (2) ☐ (10 POINTS)
 GREATER THAN 100 FT (3) ☐ (0 POINTS)

WELLHEAD PROTECTION AREA: Is it less than 1,000 feet from wells, springs, or other sources of fresh water extraction?, or; is it less than 200 ft from a private domestic water source (or 1,000' on Navajo surface)?

YES ☐ (20 POINTS)NO ☒ (0 POINTS)

HORIZONTAL DISTANCE TO SURFACE WATER BODY: LESS THAN 200 FT (1) ☐ (20 POINTS)
 200 FT TO 1,000 FT (2) ☐ (10 POINTS)
 GREATER THAN 1,000 FT (3) ☒ (0 POINTS)

NAME OF SURFACE WATER BODY _____

SURFACE WATER BODY: PERENNIAL RIVERS, STREAMS, CREEKS, IRRIGATION CANALS, DITCHES, LAKES, PONDS

DISTANCE TO NEAREST EPHEMERAL STREAM (1) ☐ <100 FEET (NAVAJO PITS ONLY)
 (2) ☐ >100 FEET

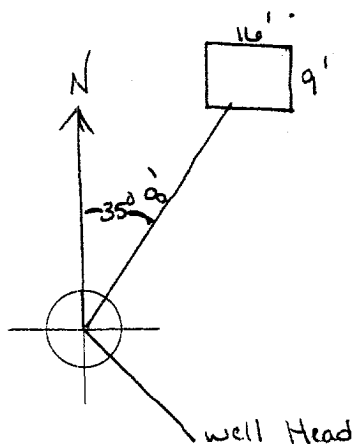
TOTAL HAZARD RANKING SCORE: 20 POINTS

SITE ASSESSMENT

ORIGINAL PIT LOCATION

ORIGINAL PIT: (A) DEGREES FROM NORTH 35° FOOTAGE FROM WELLHEAD 8'

CORRECTED 13° FOR MAGNETIC NORTH

(B) LENGTH: 9' WIDTH: 16' DEPTH: 6'

SAMPLE

SAMPLE SENT TO LAB FOR: ☐ BTEX ☒ TPH ☐ NO SAMPLE TAKENPID - FIELD HEADSPACE READING: 1 ppmSAMPLE NUMBER: 0803990933

REMARKS

Pit was partially excavated to 6' depth to pull liner out.
Took sample 4' below bottom of pit. Sample hole was hand augered.
Pit appeared to be clean, no smell and soil had no discoloration.
Heated headspace read 1 ppm.

COMPLETED BY: Steve Archuleta DATE: 8-3-99

SIGNATURE



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

Pinnacle Lab ID number **908017**
August 11, 1999

PHILIP ENVIRONMENTAL
4000 MONROE ROAD
FARMINGTON, NM 87401

Project Name B.R.MISC.
Project Number 62800006

Attention: STEVE ARCHULETA

On 8/4/99 Pinnacle Laboratories, Inc. Inc., (ADHS License No. AZ0592 pending),
received a request to analyze **non-aq** samples. The samples were analyzed
with EPA methodology or equivalent methods. The results of these analyses and the quality
control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us
at (505)344-3777.

A handwritten signature in black ink, appearing to read "Kimberly D. McNeill".

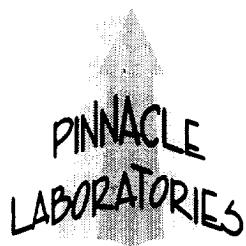
Kimberly D. McNeill
Project Manager

A handwritten signature in black ink, appearing to read "H. Mitchell Rubenstein".

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: mt

Enclosure



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

CLIENT	: PHILIP ENVIRONMENTAL	PINNACLE ID	: 908017
PROJECT #	: 62800006	DATE RECEIVED	: 8/4/99
PROJECT NAME	: B.R.MISC.	REPORT DATE	: 8/11/99
PIN			DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	0803990933	NON-AQ	8/3/99



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Albuquerque, New Mexico 87107
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Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 62800006
PROJECT NAME : B.R.MISC.

PINNACLE I.D.: 908017

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	0803990933	NON-AQ	8/3/99	8/10/99	8/10/99	1

PARAMETER	DET. LIMIT	UNITS	0803990933
FUEL HYDROCARBONS, C6-C10	10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	5.0	MG/KG	< 5.0
FUEL HYDROCARBONS, C22-C36	5.0	MG/KG	< 5.0

CALCULATED SUM:

SURROGATE:
O-TERPHENYL (%) 105
SURROGATE LIMITS (66 - 151)

CHEMIST NOTES:
N/A



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GAS CHROMATOGRAPHY RESULTS

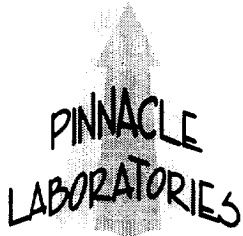
REAGENT BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)		
BLANK I.D.	: 081099	PINNACLE I.D.	: 908017
CLIENT	: PHILIP ENVIRONMENTAL	DATE EXTRACTED	: 8/10/99
PROJECT #	: 62800006	DATE ANALYZED	: 8/10/99
PROJECT NAME	: B.R.MISC.	SAMPLE MATRIX	: NON-AQ

PARAMETER	UNITS	
FUEL HYDROCARBONS, C6-C10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	MG/KG	< 5.0
FUEL HYDROCARBONS, C22-C36	MG/KG	< 5.0

SURROGATE:
O-TERPHENYL (%) 102
SURROGATE LIMITS (80 - 151)

CHEMIST NOTES:
N/A



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GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
MSMSD # : 908017-01
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 62800006
PROJECT NAME : B.R.MISC.

PINNACLE I.D. : 908017
DATE EXTRACTED : 8/10/99
DATE ANALYZED : 8/10/99
SAMPLE MATRIX : NON-AQ
UNITS : MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<5.0	100	101	101	100	100	1	(56 - 148)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

PHILIP

Chain of Custody Record

908017

4000 Monroe Road
Farmington, NM 87401

(505) 326-2262 Phone
(505) 326-2388 FAX

COC Serial No. C 2385

Project Name **B.R. Misc.**

Project Number **62800006** Phase **Task 0245**

Samplers

Laboratory Name **Pinnacle Labs**

Location **A1b. N.M.**

Sample Number (and depth) **8-3-99 933** Date **8-3-99** Time **933** Matrix **SOIL**

08039909 33

Total Number of Bottles

Type of Analysis and Bottle

TPH 8015 MODIFIED (200)

Lab ID#

Comments

Riddle #18

Relinquished by:

Signature

Steve Arnold

Date

8-3-99

Time

1133

Signature

Sharonne Juarez

Date

8/4/99

Time

0950

Received By:

Samples Iced: ☒ Yes ☐ No

Carrier:

Airbill No.

Preservatives (ONLY for Water Samples)

- ☐ Cyanide
- ☐ Volatile Organic Analysis
- ☐ Metals
- ☐ TPH (418.1)
- ☐ Other (Specify)
- ☐ Other (Specify)

Sodium hydroxide (NaOH)

Hydrochloric acid (HCl)

Nitric acid (HNO3)

Sulfuric acid (H2SO4)

Shipping and Lab Notes:

Please Fax results to Fax # above.

Please return cooler to address above.

Please send more Greyhound Air Bill

Rec'd @ 13°C

Thankyou.

5.828

13.857

16.980

user modified

e : C:\HPCHEM\2\DATA\10AUG99\007R0101.D

: Pinnacle - rg & cff

: FID1

: 908017-01

Code:

: 10 Aug 99 05:32 PM

d on: 11 Aug 99 11:12 AM

on : 11 JAN 93 08:58 AM

: 1

Page Number : 1

Vial Number : 7

Injection Number : 1

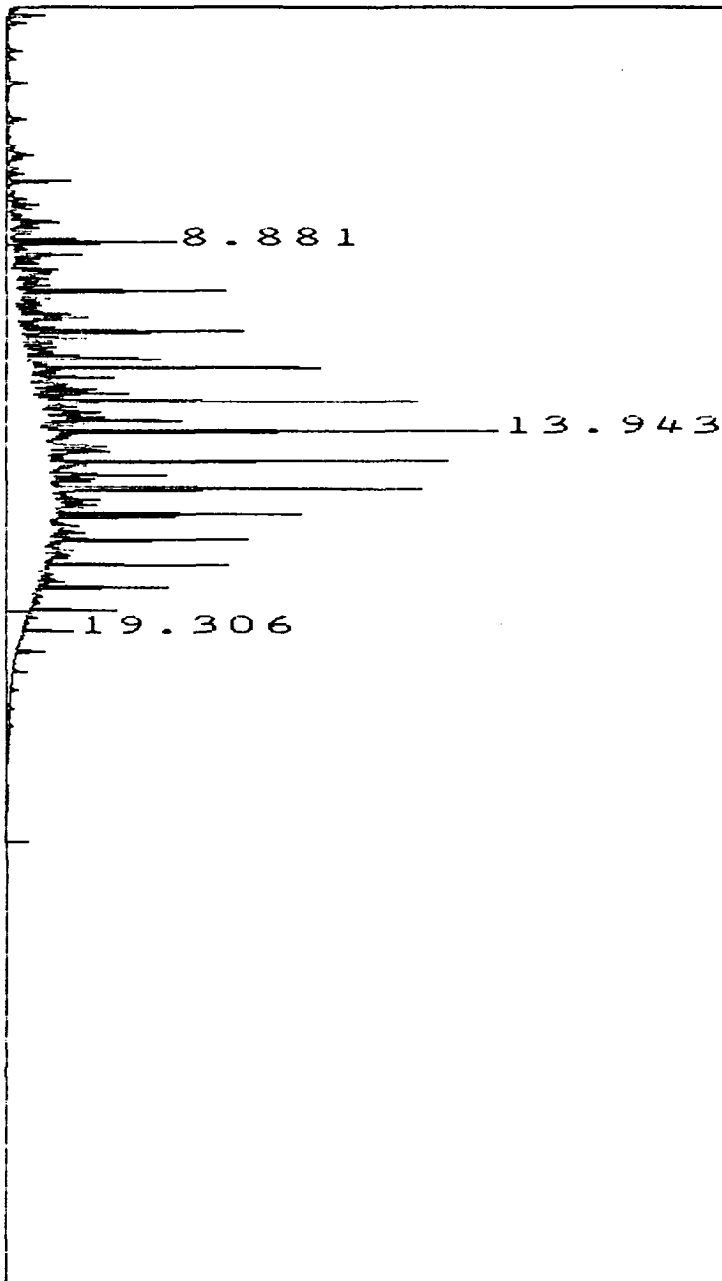
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Instrument Method: HX071599.MTH

Analysis Method : HX071599.MTH

Sample Amount : 0

ISTD Amount :



user modified

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: FID1 Vial Number : 3
: gc4-05-16 dsl Injection Number : 1
Code: Sequence Line : 1
: 22 Jun 99 12:18 PM Instrument Method: HX031699.MTH
d on: 22 Jun 99 03:21 PM Analysis Method : HX031699.MTH
on : 11 JAN 93 08:58 AM Sample Amount : 0
: 1 ISTD Amount :

892

13.857

17.002

24.393

user modified

File : C:\HPCHEM\2\DATA\22JUN99\002R0101.D

: Pinnacle - rg & cff

Page Number : 1

: FID1

Vial Number : 2

: gc4-07-01 gas

Injection Number : 1

Code: Sequence Line : 1

: 22 Jun 99 11:24 AM

Instrument Method: HX031699.MTH

ad on: 22 Jun 99 12:22 PM

Analysis Method : HX031699.MTH

on : 11 JAN 93 08:58 AM

Sample Amount : 0

: 1

1STD Amount :

	C8
	C10
	C12
	C14
	C16
	C18
	C20
	C22
	C24
	C26
	C28
	C30
	C32
	C34
	C36

e	: C:\HPCHEM\2\DATA\16MAR99\018R0201.D		
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	: FID1	Vial Number	: 18
	: retention time	Injection Number	: 1
Code:		Sequence Line	: 2
	: 17 Mar 99 01:52 AM	Instrument Method:	HX031699.MTH
d on:	12 Jul 99 11:01 AM	Analysis Method	: HX03169S.MTH
on	: 11 JAN 93 08:58 AM	Sample Amount	: 0
	: 1	ISTD Amount	: