

District III

1000 Rio Brazos Rd
Albuquerque, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit 1 copy to
Appropriate District
and 1 copy to
Santa Fe Office

DEPUTY OIL & GAS INSPECTOR OIL CONSERVATION DIVISION

2040 S. PACHECO
Santa Fe, New Mexico 87505

APR 10 1988

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: M W PETROLEUM Telephone: 505-325-0318

Address: 2855 Southside River Road, Suite A, Farmington, NM 87401-7947

Facility or Well Name: DIVIDE # 1

Location: Unit or Qtr/Qtr Sec H Sec 35 T 26N R 2W County Rio Arriba

Pit Type: Separator: XX Dehydrator _____ Other _____

Land Type: FEE

PIT DIMENSION START	Length	<u>20'</u>	Width	<u>20'</u>	Depth	<u>2'</u>
PIT DIMENSION FINISH	Length	<u>22'</u>	Width	<u>22'</u>	Depth	<u>7'</u>

(Attach diagram)

Reference: Wellhead X Other _____

Footage from reference: 65'

Direction from reference: 350 Degrees _____ East North XX
 of _____ West South _____

Depth To Groundwater: (vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	(20 points)	_____
	50 feet to 99 feet	(10 points)	_____
	Greater than 100 feet	(0 points)	<u>0</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)	<u>20</u>
	No	(0 points)	_____

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OIL CON. DIV.
 DIST. 3

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) 20

Date Remediation Started: 4/14/97 Date Completed: 10/7/97

Remediation Method: (Check all appropriate sections)
Excavation XX Approx. cubic yards 74
Landfarmed XX Insitu Bioremediation _____
Other _____

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

General Description of Remedial Action: _____
EXCAVATE PIT TO 7', TOOK PID READINGS. SPREAD SOIL ON LOCATION,
TREAT SOIL WITH FERTILIZER, WATER AND TILL SOIL. TOOK SOIL SAMPLES.

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location 5 point composite taken from pit sidewalls and pit bottom center
Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)
Sample depth 8 to 10" into pit sidewalls 10" into pit bottom
Sample Date 4/16/97 Sample Time 10:20AM
Sample results
Benzene (ppm) ND
Total BTEX (ppm) ND
Field Headspace (ppm) 30.44
TPH ND

Groundwater Sample: Yes _____ No X (If yes attach sample results)

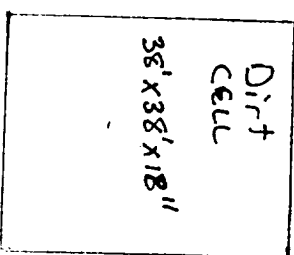
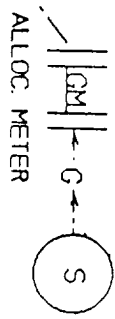
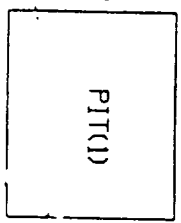
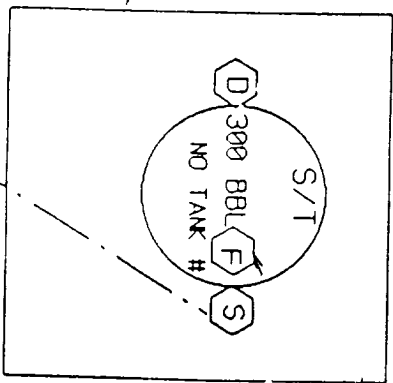
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE 11-11-97 PRINTED NAME Jeff Cross
SIGNATURE Jeff Cross AND TITLE Project Manager

NORTH → GENERAL DRAINAGE

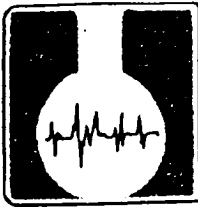
Soil To Be put Back in p.t.

MW PETROLEUM
DIVIDE NUMBER 1
SE/4 NE/4 (H)
SECTION 35, TOWNSHIP 26N, RANGE 2W
RIO ARRIBA COUNTY, NM



○ WELL HEAD

□ PUMP JACK



**ASSAIGAI
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LABORATORIES, INC.**

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3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:
April 23, 1997 13:42

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

SENT APACHE CORPORATION
TO: 304 N. BEHREND
FARMINGTON, NM 87401

WORKORDER # : 9704179
WORK ID : PIT REMEDIATION
CLIENT CODE : APA01
DATE RECEIVED : 04/17/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9704179-01A
Sample ID: DIVIDE #1 PIT

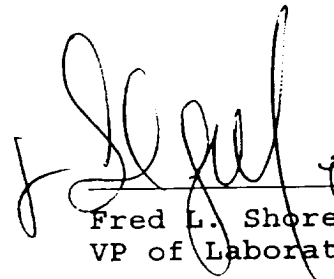
Collected: 04/16/97 10:20:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	500	04/19/97	SBTXME154
Toluene	ND	mg/Kg	0.0010	500	04/19/97	SBTXME154
Ethylbenzene	ND	mg/Kg	0.0010	500	04/19/97	SBTXME154
P-&m-Xylene	ND	mg/Kg	0.0020	500	04/19/97	SBTXME154
O-Xylene	ND	mg/Kg	0.0010	500	04/19/97	SBTXME154

Lab ID: 9704179-01B
Sample ID: DIVIDE #1 PIT

Collected: 04/16/97 10:20:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	04/19/97	SDRO22


Fred L. Shore, Ph.D.
VP of Laboratory Operations



WORKORDER COMMENTS

DATE : 04/23/97
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.

D_F = Sample "dilution factor"

NT = Analyte "not tested" per client request.

B = Analyte was also detected in laboratory method QC blank.

E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.

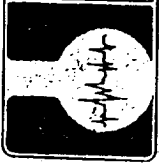
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***

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*** written approval of Assaigai Analytical Inc. ***

REPORT COMMENTS



**ASSAIGAI
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LABORATORIES**

Chain of Custody Record

Lab job no.: 4179 Date: 4/17/97
Page 1 of 1

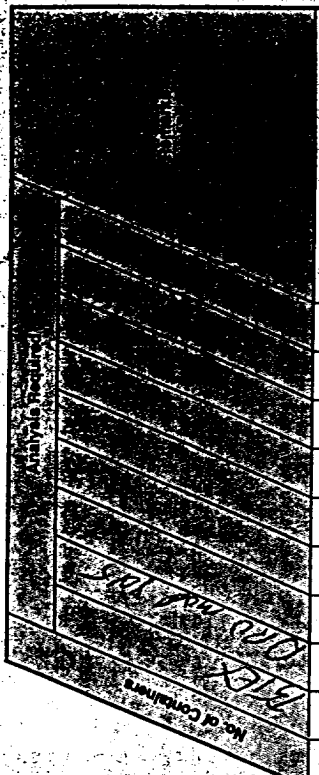
Client: Apache Corporation
Address: 304 N. Behrens
City/State/Zip: Farmington N.M. 87401
Project Name/Number: Pit Remediation
Contract/Purchase Order/Quote: _____
Project Manager/Contact: JEFF CROSS
Telephone No.: 505-774-6643
Fax No.: 505-774-6624
Samplers: (Signature) Jeff Cross

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8864

3332 WEDGEWOOD
EL PASO, TEXAS 79825
(915) 583-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 576-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320



ANALYTICAL FRACTION NUMBER	FIELD IDENTIFICATION	Date	Time	Sample Type	Type of Container	Temp.	Preservation	No. of Containers
01A	DIVIDE #1 pit	4-16-97	10:20	soil	4oz glass	4°C	ICE	1 ✓
01B	DIVIDE #1 pit	4-16-97	10:20	soil	4oz glass	↓	ICE	1 ✓
01C								
01D								
01E								
01F								
01G								
01H								
01I								
01J								

Relinquished by: Signature Jeff Cross Date 4/17/97
Printed JEFF CROSS Time 8:24
Company Apache Corporation

Received by: Signature Eileen Foyen
Printed EILEEN FOYEN
Company APAC

Relinquished by: Signature _____ Date _____
Printed _____ Time _____
Company _____

Received by: Signature _____
Printed _____
Company _____

After analysis, samples are to be:
 Disposed of (additional fee)
 Stored (30 days max)
 Stored over 30 days (additional fee)
 Returned to customer

Method of Shipment: _____
Shipment No. _____
Special Instructions: _____

COURIER

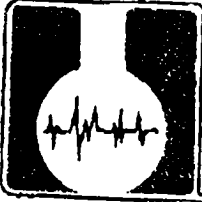
M W PETROLEUM/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDICATION SITE DIVIDE # 1

* AMOUNT OF SOIL UNDERGOING REMEDIATION 74 Yds.

CELL No. <u>1</u>	SampDATE 10/7/97	TPH ND	BTEX ND
DIMENSIONS(LxWxH) <u>38' X 38' X 18"</u>			
CELL LOCATION (dir. from well head) <u>SOUTH</u>			
* DATE BEGAN: <u>4/14/97</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>10/7/97</u>			
CELL No. <u>2</u>	SampDATE	TPH	BTEX
DIMENSIONS(LxWxH) _____			
CELL LOCATION (dir. from well head) _____			
* DATE BEGAN: _____			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) _____			
CELL No. <u>3</u>	SampDATE	TPH	BTEX
DIMENSIONS(LxWxH) _____			
CELL LOCATION (dir. from well head) _____			
* DATE BEGAN: _____			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) _____			
REMEDICATION RECORD: (Date, Treatment, Tilling)			
4/30/97 PLOW AND DISC SOIL.			
5/5/97 TREAT WITH 42-0-0 FERTILIZER AND WATER SOIL.			
5/12/97 DISC SOIL.			
8/7/97 WATER AND DISC SOIL.			
9/15/97 DISC SOIL.			
10/7/97 TOOK SOIL SAMPLES.			

From excavation reports.



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Report Generated:
October 20, 1997 16:32

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

SENT APACHE CORPORATION

TO: 2855 SOUTHSIDE RIVER RD STE
FARMINGTON, NM 87401-7947

WORKORDER # : 9710111
AWORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 10/10/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9710111-01A
Sample ID: DIVIDE #1 CELL

Collected: 10/07/97 15:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	10/15/97	X97321
Toluene	ND	mg/kg	0.0050	100	10/15/97	X97321
Ethylbenzene	ND	mg/kg	0.0050	100	10/15/97	X97321
P-&m-Xylene	ND	mg/kg	0.010	100	10/15/97	X97321
O-Xylene	ND	mg/kg	0.0050	100	10/15/97	X97321

Lab ID: 9710111-01B
Sample ID: DIVIDE #1 CELL

Collected: 10/07/97 15:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	25	25	10/18/97	SDR0059

William P. Biava

William P. Biava
President



WORKORDER COMMENTS

DATE : 10/20/97
WORKORDER:

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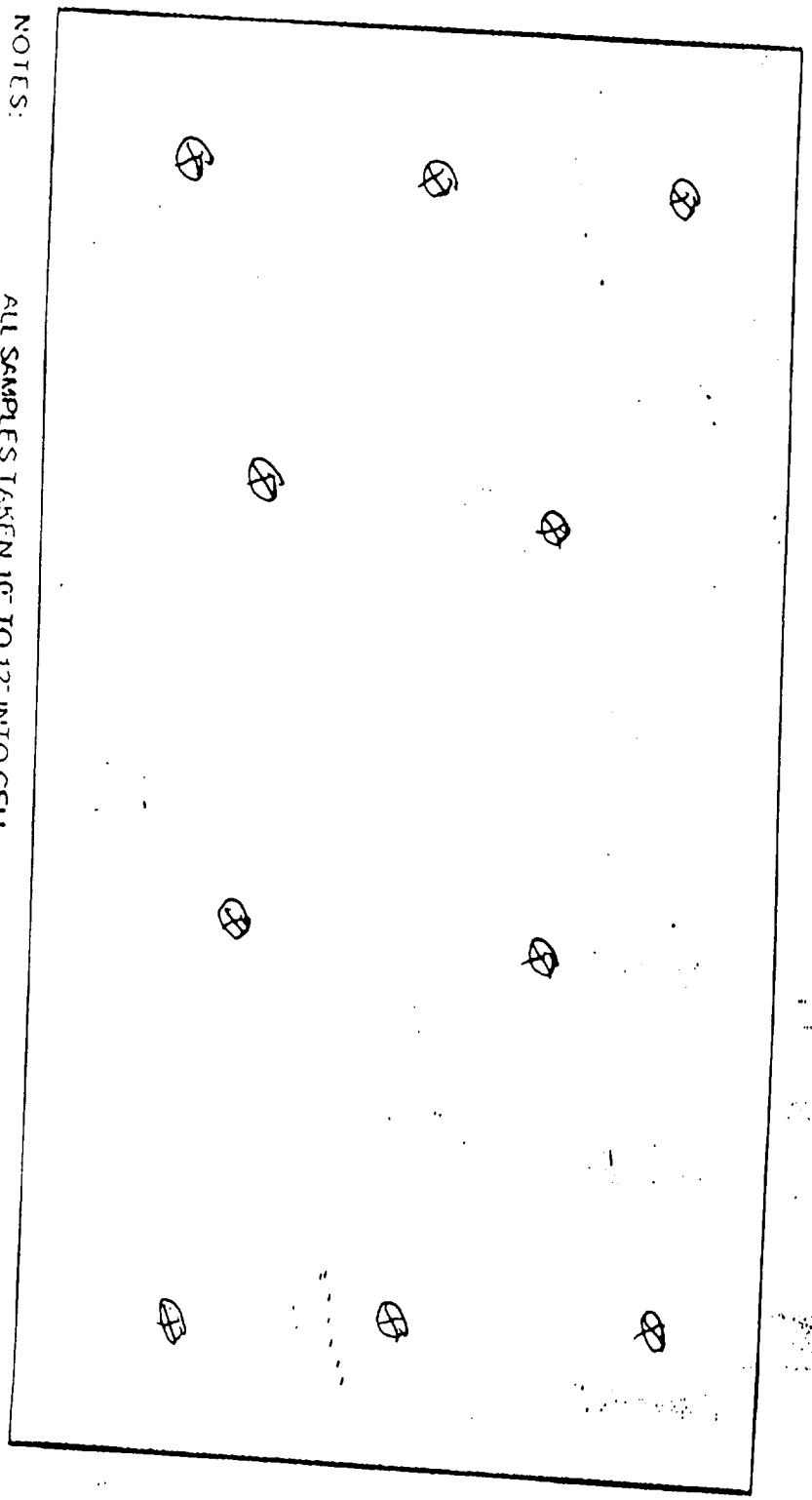
Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

REPORT COMMENTS

WELL NAME:
SAMPLE DATE:
DIMENSIONS:

D. 1. 1/2
10/17/97

○ = SAMPLE AREA



NOTES: ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

Took 4 10 Point Composite Sample

Handwritten notes on lined paper, including the text "Took 4 10 Point Composite Sample".