

State of New Mexico
Energy, Minerals and Natural Resources Department
DEPUTY OIL & GAS INSPECTOR

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

APR 10 1998

OIL CONSERVATION DIVISION
2040 S. PACHECO
Santa Fe, New Mexico 87505

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:		TAPACITOS COM A # 2	PIT # 2
Location: Unit or Qtr/Qtr Sec	L Sec 25 T 26N R 2W	County	Rio Arriba
Pit Type: Separator:	XX	Dehydrator	
Land Type:		FEE	
PIT DIMENSION START	Length 35'	Width 70'	Depth 3'
Pit Location: PIT DIMENSION FINISH	Length 42'	Width 75'	Depth 7'
(Attach diagram)			
Reference:	Wellhead X	Other	
Footage from reference:	75'		
Direction from reference:	80 Degrees	XX East	North X
		West	South
Depth To Groundwater:		Less than 50 feet	(20 points)
(vertical distance from		50 feet to 99 feet	(10 points)
contaminants to seasonal		Greater than 100 feet	(0 points)
high water elevation of			0
groundwater)			
Wellhead Protection Area:		Yes	(20 points)
(Less than 200 feet from a private		No	(0 points)
domestic water source, or; less than			0
1000 feet from all other water sources)			
RECEIVED			
DEC 10 1997			
OIL CON. DIV.			
DIST. 3			
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)
irrigation canals and ditches)			0
RANKING SCORE (TOTAL POINTS)			0

Date Remediation Started: 4/25/97 Date Completed: 10/17/97

Remediation Method: Excavation XX Approx. cubic yards 800
(Check all appropriate sections) Landfarmed XX Insitu Bioremediation _____
Other _____

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

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 5/2/97 Sample Time 9:50AM

Sample results

Benzene (ppm) ND

Total BTEX (ppm) ND

Field Headspace (ppm) 6.52

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

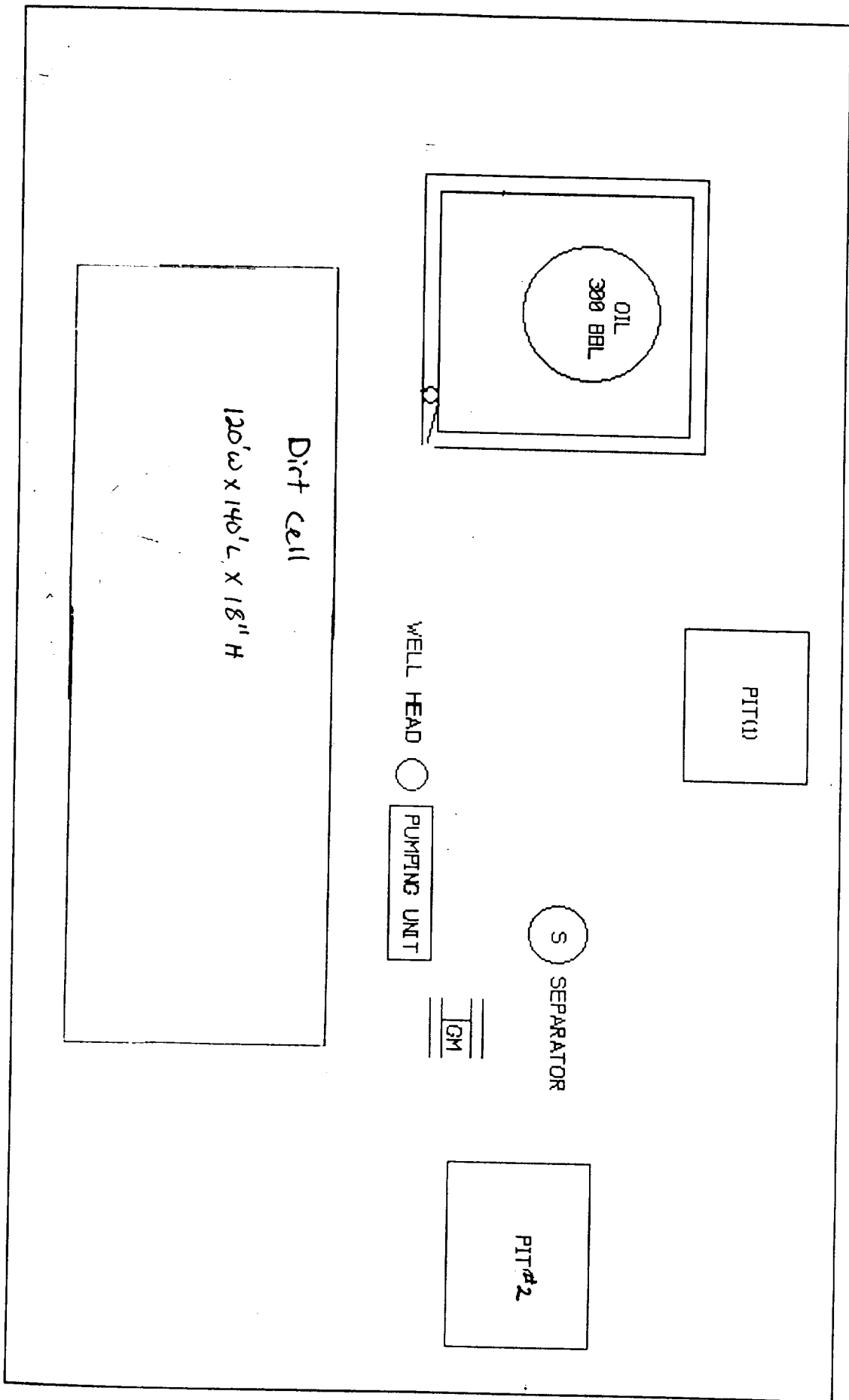
SIGNATURE Jeff Cross AND TITLE Project Manager

NORTH

Soil To Be put Back in pits

GENERAL DRAINAGE

MW PETROLEUM
TAPACITOS COM A NUMBER 2
NW/4 SW/4 (U) Lease #MNM171312
SECTION 25, TOWNSHIP 26N, RANGE 2W
RIO ARriba COUNTY, NM
Revise 6/3/97 MG



M W PETROLEUM/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

LOCATION TAPACITOS COM A #2

PIT COUNT 2

Jicarilla Apache Tribal EPO/OCD/BLM

Review and Approval

OCD-BLM

EPO Representative

Date of Review

Excavation								
DIMENSIONS				START: PIT #1 4/22/97, PIT #2 4/25/97 FINISH: PIT #1 4/30/97, PIT #2 5/2/97				
	W	L	D		W	L	D	CU YDS
Pit 1	20'	20'	3'	Pit 1	22'	22'	7'	125
Pit 2	70'	35'	3'	Pit 2	75'	42'	7'	800
Pit 3				Pit 3				
	Pit 1 @ 5'	Pit 2 @ 5'	Pit 3 @		Pit 1 @ 7'	Pit 2 @ 7'	Pit 3 @	
P	Center	110.3	125.5	P	Center	10.4	1.3	
I	NW Corner	55.3	108.7	I	NW Corner	4.5	2.8	
D	NE Corner	100	111.3	D	NE Corner	4.4	2.4	
	SW Corner	60.4	158.7		SW Corner	3.4	10.7	
	SE Corner	61.3	150		SE Corner	6	15.4	

NOTES:

4/22/97 START EXCAVATION ON PIT # 1 NO STAINING , VERY LIGHT ODOR.

4/23/97 EXCAVATE PIT TO 5' , HIT SOFT SANDSTONE. TOOK PID READINGS. (LITTLE HIGH)

4/25/97 START EXCAVATION ON PIT # 2 HEAVY STAINS ON SOUTH SIDE.

4/28/97 CONTINUE EXCAVATION ON PIT # 2

4/29/97 CONTINUE EXCAVATION ON PIT #2

4/30/97 CALLED IN TRACK HOE TO FINISH EXCAVATION ON PIT #2

4/30/97 EXCAVATE PIT # 1 DOWN TO 7' PID READINGS GOOD. TOOK SOIL SAMPLES.

5/1/97 CONTINUE EXCAVATION WITH TRACK HOE ON PIT # 2

5/2/97 COMPLETE EXCAVATION OF PIT # 2 , PID READINGS GOOD. TOOK SOIL SAMPLES.

DATE: 4/30/97 5/2/97 SOIL SAMPLING

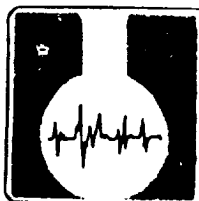
	Pit 1 @	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	ASSAIGAI
P	Center	10.4	1.3	PIT NO	TPH	BETEX	WITNESS	DATE
I	NW Corner	4.5	2.8	1	ND	ND	JEFF C.	5/5/97
D	NE Corner	4.4	2.4	2	ND	ND	JEFF C.	5/6/97
	SW Corner	3.4	10.7	3				
	SE Corner	6	15.4					

RE-SAMPLE OR CELL(S) SAMPLE

DATE:	Pit 1 @	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	
P	Center			PIT NO	TPH	BETEX	WITNESS	DATE
I	NW Corner			1				
D	NE Corner			2				
	SW Corner			3				
	SE Corner							

RE-SAMPLE OR CELL(S) SAMPLE

DATE:	Pit 1 @	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	
P	Center			PIT NO	TPH	BETEX	WITNESS	DATE
I	NW Corner			1				
D	NE Corner			2				
	SW Corner			3				
	SE Corner							



**ASSAIGAI
ANALYTICAL
LABORATORIES, INC.**

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

Report Generated:
May 12, 1997 08:23

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

ATTN: JEFF CROSS

WORKORDER # : 9705041
WORK ID : PIT REMEDIATION
CLIENT CODE : APA01
DATE RECEIVED : 05/06/97

Page: 1

Lab ID: 9705041-01A *com #2 J.C.*
Sample ID: TAPACITOS PIT #2

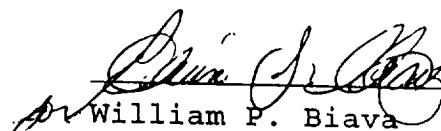
Collected: 05/02/97 09:50:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	500	05/06/97	SBTXME159
Toluene	ND	mg/Kg	0.0010	500	05/06/97	SBTXME159
Ethylbenzene	ND	mg/Kg	0.0010	500	05/06/97	SBTXME159
P-&m-Xylene	ND	mg/Kg	0.0020	500	05/06/97	SBTXME159
O-Xylene	ND	mg/Kg	0.0010	500	05/06/97	SBTXME159

Lab ID: 9705041-01B *com #2 J.C.*
Sample ID: TAPACITOS PIT #2

Collected: 05/02/97 09:50:00
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	25	05/08/97	SDRO25


William P. Biava
President



WORKORDER COMMENTS

DATE : 05/12/97
WORKORDER:

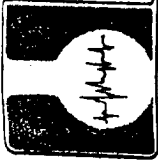
DEFINITIONS/DATA QUALIFIERS

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

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- 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.

REPORT COMMENTS



ASSAIGAL
ANALYTICAL
LABORATORIES

Chain of Custody Record

Lab job no.: _____ Date: 3/16/97
Page 1 of 1

Client Apache Corporation Project Manager / Contact Scott C. S.
Address 304 N. Central Telephone No. 1571774-6643
City / State / Zip Tulsa, NM 87101 Fax No. (505) 774-1111
Project Name / Number P.T. Remediation Samplers: (Signature) [Signature]
Contract / Purchase Order / Quote _____

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

AAL FRACTION NUMBER	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation		No. of Containers	Remarks
						Temp.	Chemical		
1	Field 1	3/16/97	9:15	1	402			1	
2	Field 2	3/16/97	9:30	1	11			1	
3	Field 3	3/16/97	9:45	1	402			1	
4	Field 4	3/16/97	10:00	1	11			1	
5	Field 5	3/16/97	10:15	1	402			1	
6	Field 6	3/16/97	10:30	1	11			1	
7	Field 7	3/16/97	10:45	1	402			1	
8	Field 8	3/16/97	11:00	1	11			1	
9	Field 9	3/16/97	11:15	1	402			1	
10	Field 10	3/16/97	11:30	1	11			1	
11	Field 11	3/16/97	11:45	1	402			1	
12	Field 12	3/16/97	12:00	1	11			1	
13	Field 13	3/16/97	12:15	1	402			1	
14	Field 14	3/16/97	12:30	1	11			1	
15	Field 15	3/16/97	12:45	1	402			1	
16	Field 16	3/16/97	13:00	1	11			1	
17	Field 17	3/16/97	13:15	1	402			1	
18	Field 18	3/16/97	13:30	1	11			1	
19	Field 19	3/16/97	13:45	1	402			1	
20	Field 20	3/16/97	14:00	1	11			1	
21	Field 21	3/16/97	14:15	1	402			1	
22	Field 22	3/16/97	14:30	1	11			1	
23	Field 23	3/16/97	14:45	1	402			1	
24	Field 24	3/16/97	15:00	1	11			1	
25	Field 25	3/16/97	15:15	1	402			1	
26	Field 26	3/16/97	15:30	1	11			1	
27	Field 27	3/16/97	15:45	1	402			1	
28	Field 28	3/16/97	16:00	1	11			1	
29	Field 29	3/16/97	16:15	1	402			1	
30	Field 30	3/16/97	16:30	1	11			1	
31	Field 31	3/16/97	16:45	1	402			1	
32	Field 32	3/16/97	17:00	1	11			1	
33	Field 33	3/16/97	17:15	1	402			1	
34	Field 34	3/16/97	17:30	1	11			1	
35	Field 35	3/16/97	17:45	1	402			1	
36	Field 36	3/16/97	18:00	1	11			1	
37	Field 37	3/16/97	18:15	1	402			1	
38	Field 38	3/16/97	18:30	1	11			1	
39	Field 39	3/16/97	18:45	1	402			1	
40	Field 40	3/16/97	19:00	1	11			1	
41	Field 41	3/16/97	19:15	1	402			1	
42	Field 42	3/16/97	19:30	1	11			1	
43	Field 43	3/16/97	19:45	1	402			1	
44	Field 44	3/16/97	20:00	1	11			1	
45	Field 45	3/16/97	20:15	1	402			1	
46	Field 46	3/16/97	20:30	1	11			1	
47	Field 47	3/16/97	20:45	1	402			1	
48	Field 48	3/16/97	21:00	1	11			1	
49	Field 49	3/16/97	21:15	1	402			1	
50	Field 50	3/16/97	21:30	1	11			1	
51	Field 51	3/16/97	21:45	1	402			1	
52	Field 52	3/16/97	22:00	1	11			1	
53	Field 53	3/16/97	22:15	1	402			1	
54	Field 54	3/16/97	22:30	1	11			1	
55	Field 55	3/16/97	22:45	1	402			1	
56	Field 56	3/16/97	23:00	1	11			1	
57	Field 57	3/16/97	23:15	1	402			1	
58	Field 58	3/16/97	23:30	1	11			1	
59	Field 59	3/16/97	23:45	1	402			1	
60	Field 60	3/16/97	00:00	1	11			1	

Received by:		Relinquished by:	
Signature	Date	Signature	Date
<u>[Signature]</u>	<u>3/16/97</u>	<u>[Signature]</u>	<u>3/16/97</u>
Printed		Printed	
Company		Company	
Reason		Reason	

After analysis, samples are to be:

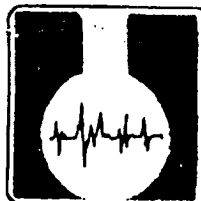
☐ Disposed of (additional fee)

☐ Stored (30 days max)

☐ Stored over 30 days (additional fee)

☐ Returned to customer

COURIER



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Report Generated:
May 9, 1997 16:24

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

WORKORDER # : 9705017
WORK ID : PIT REMEDIATION
CLIENT CODE : APA01
DATE RECEIVED : 05/02/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9705017-01A

Sample ID: TAPACITOS *Com LOMA #2 pit #1 ll.*

Collected: 04/30/97 12:55:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	500	05/05/97	SBTXME158
Toluene	ND	mg/Kg	0.0010	500	05/05/97	SBTXME158
Ethylbenzene	ND	mg/Kg	0.0010	500	05/05/97	SBTXME158
P-&m-Xylene	ND	mg/Kg	0.0020	500	05/05/97	SBTXME158
O-Xylene	ND	mg/Kg	0.0010	500	05/05/97	SBTXME158

Lab ID: 9705017-01B

Sample ID: TAPACITOS *Com LOMA #2 pit #1 ll.*

Collected: 04/30/97 12:55:00
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	25	05/06/97	SDRO25

William P. Biava

William P. Biava
President



WORKORDER COMMENTS

DATE : 05/09/97
WORKORDER: 9705019

DEFINITIONS/DATA QUALIFIERS

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- 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.

REPORT COMMENTS

***Please Note: The dilution factor for 01A for btex is 100,000.



Chain of Custody Record

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

Project Manager / Contact Jeff C. 6155

Telephone No. 771-66113

Fax No. 774-6691

Samplers: (Signature) UC

[illegible]

Reinquished by:

Signature _____

Printed _____

Company _____

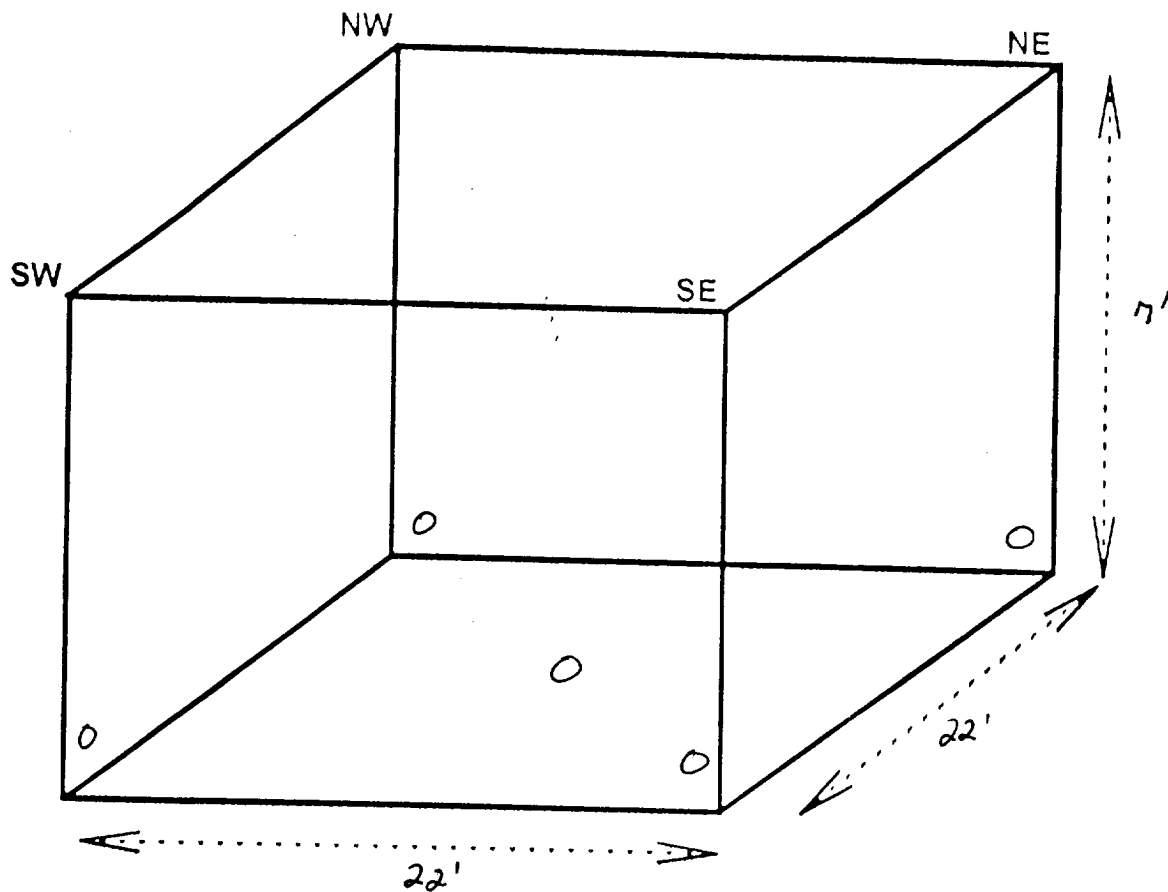
Business _____

Comments

After analysis, samples are to be:

☐ Disposed of (additional fee)☐ **Stored (30 days max)**☐ **Stored over 30 days (additional fee)**☐ Returned to customer

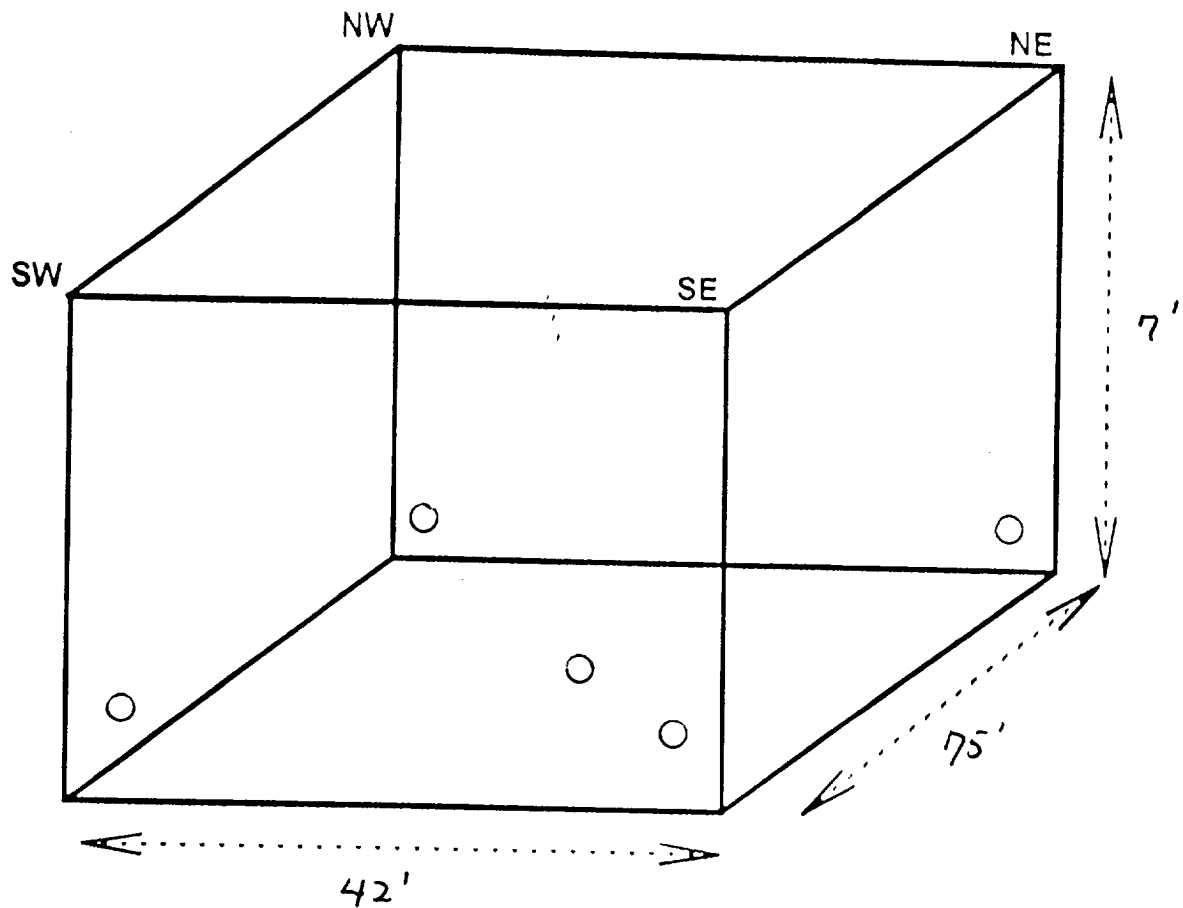
COURIER



○ = SAMPLE AREA

WELL NAME TAPACITOS com A #2 Pit #1
 SAMPLE DATE 4-30-97

NOTES 4 POINT COMPOSITE SAMPLE TAKEN 8" TO 10" INTO PIT
SIDEWALL
1 POINT GRAB SAMPLE TAKEN 10" TO 12" INTO BOTTOM CENTER



○ = SAMPLE AREA

WELL NAME TAPACITOS COM A #2 Pit #2
 SAMPLE DATE 5-2-97

NOTES 4 POINT COMPOSITE SAMPLE TAKEN 8" TO 10" INTO PIT
SIDEWALL
1 POINT GRAB SAMPLE TAKEN 10" TO 12" INTO BOTTOM CENTER

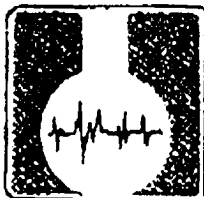
M W PETROLEUM/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE TAPACITOS COM A # 2

* AMOUNT OF SOIL UNDERGOING REMEDIATION 925 Yds.

CELL No. <u>1</u>	SampDATE 10/17/97	TPH ND	BTEX ND
DIMENSIONS(LxWxH) <u>120' X 140' X 18"</u>			
CELL LOCATION (dir. from well head) <u>WEST</u>			
* DATE BEGAN: <u>4/22/97</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>10/17/97</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)			
5/3/97 TREAT WITH 42-0-0 FERTILIZER WATER AND TILL SOIL.			
7/5/97 TILL AND WATER SOIL.			
8/11/97 TILL SOIL.			
9/15/97 TILL AND WATER SOIL.			
10/17/97 TOOK SOIL SAMPLES.			

From excavation reports.



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Report Generated:
October 28, 1997 12:52

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

SENT APACHE CORPORATION

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

WORKORDER #

: 9710212

AWORK ID

: JICARILLA PIT CLOSURES

CLIENT CODE

: APA01

DATE RECEIVED

: 10/22/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9710212-01A

Collected: 10/17/97 11:45:00

Sample ID: TAPACITOS A-2 CELL

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	10/23/97	SBTXME191
Toluene	ND	mg/kg	0.0050	100	10/23/97	SBTXME191
Ethylbenzene	ND	mg/kg	0.0050	100	10/23/97	SBTXME191
P-&m-Xylene	ND	mg/kg	0.010	100	10/23/97	SBTXME191
O-Xylene	ND	mg/kg	0.0050	100	10/23/97	SBTXME191

Lab ID: 9710212-01B

Collected: 10/17/97 11:45:00

Sample ID: TAPACITOS A-2 CELL

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	10/23/97	X97336

William P. Biava
William P. Biava
President



WORKORDER COMMENTS

DATE : 10/28/97
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

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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

Chain of Custody Record

Project Manager / Contact ~~Jeff Cross~~

Telephone No. (505) 774-6643

Fax No. 1505) 774-6624

Samplers: (Signature) Asif Ali

→

[illegible]

— 172 —

After analysis, samples are to be:

Do not include in this section

☐ Green sheep U1 periods

1. *Staphylococcus aureus*

Returned to customer:

LABORATORY

WELL NAME:

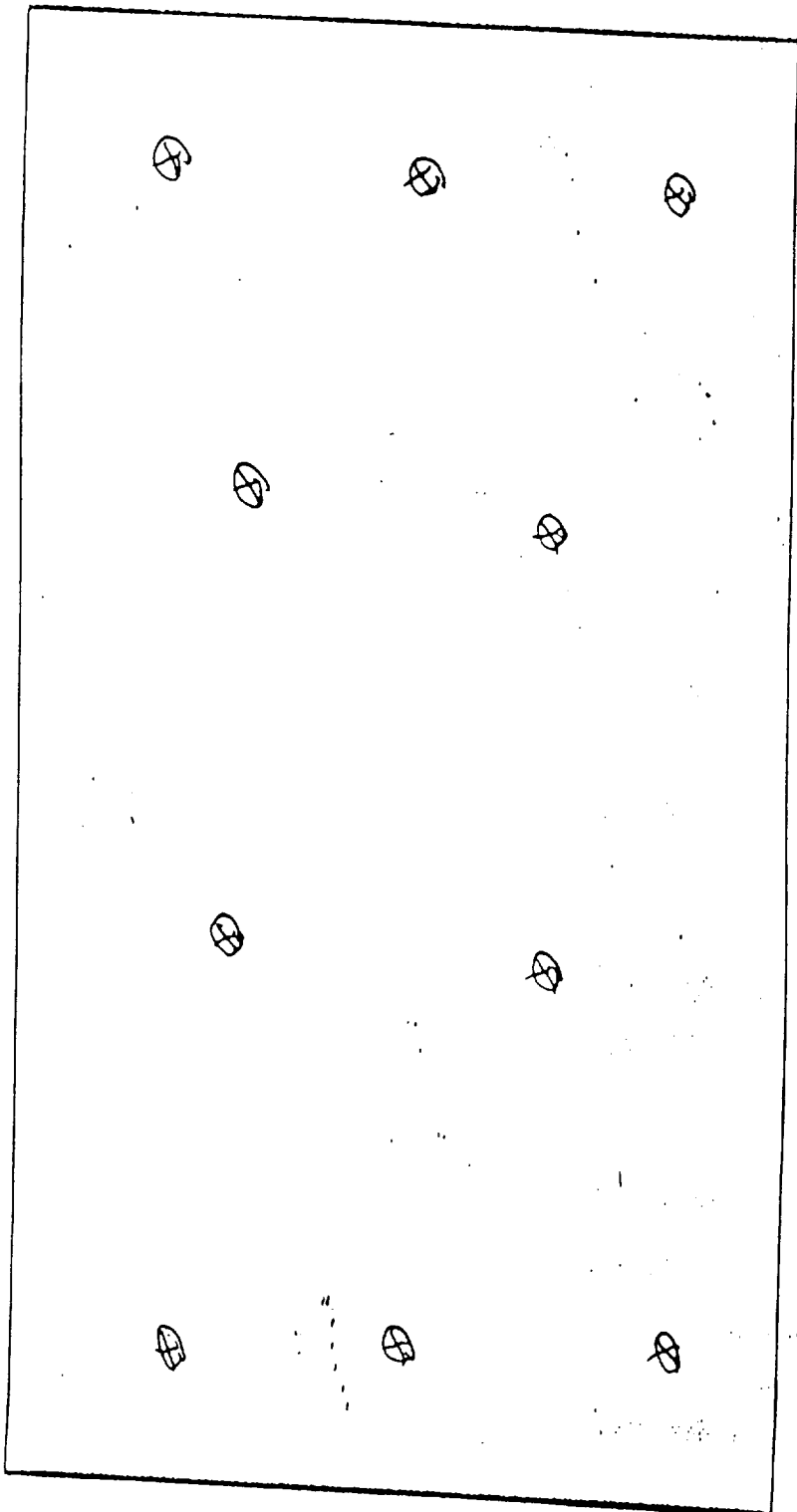
198-105 A-2

SAMPLE DATE:

10/17/97

DIMENSIONS:

○ = SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 16" TO 12" INTO CELL.

Took a 10 Point composite sample