

State of New Mexico  
Energy, Minerals and Natural Resources Department

Oil Conservation Division  
2040 S. PACHECO  
Santa Fe, New Mexico 87505

Submit 1 copy to  
Natural Resource Dept.  
and Oil & Gas Administration

OK  
note  
sample  
Headspace

**PIT REMEDIATION AND CLOSURE REPORT**

Operator: Apache Corporation Telephone 505-325-0318

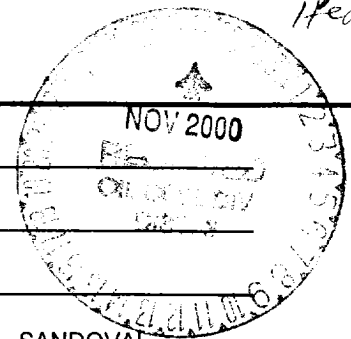
Address: 2855 Southside River Road, Suite A, Farmington, NM 87401

Facility or Well Name: JAT 390 #2

Location: Unit or Qtr/Qtr Sec NE/SE Sec 24 T 23N R 4W County SANDOVAL

Pit Type: Separator: \_\_\_\_\_ Dehydrator \_\_\_\_\_ Other BLOW PIT

Land Type: JIC. TRIBAL



Pit Location: Beginning Pit Dimensions: Length 35' Width 35' Depth 4'  
(Attach diagram) Ending Pit Dimensions: Length 35' Width 35' Depth 4'

Reference: Wellhead XXX Other \_\_\_\_\_

Footage from reference: 200'

Direction from reference: 230 Degrees \_\_\_\_\_ East of \_\_\_\_\_ North \_\_\_\_\_  
West \_\_\_\_\_ South X

**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) 0  
high water elevation of groundwater)

**Distance to an Ephemeral Stream:** Less than 100 feet (10 points) \_\_\_\_\_  
(Downgradient dry wash greater than Greater than 100 feet (0 points) 0  
ten feet in width)

**Distance to Nearest Lake, Playa, or Watering Pond:** Less than 100 feet (10 points) \_\_\_\_\_  
(Downgradient lakes, playas and Greater than 100 feet (0 points) 0  
livestock or wildlife watering ponds)

**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 100 feet (20 points) \_\_\_\_\_  
(Horizontal distance to perennial 100 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)** 0

Date Remediation Started: 11/18/1999 Date Completed: 09/18/2000

Remediation Method: Excavation \_\_\_\_\_ Approx. cubic yards \_\_\_\_\_  
(Check all appropriate sections) Landfarmed \_\_\_\_\_ Insitu Bioremediation \_\_\_\_\_  
Other Core sample 4' below pit bottom center, composite core sample 4' below pit bottom corners

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

General Description of Remedial Action: NONE REQUIRED, NO CONTAMINATION DETECTED

9/18/00 BACKFILLED AND RESEED

Groundwater Encountered: No XXX Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit: Sample location Core sample 4' below pit bottom center, 4 points composite sample of pit corner

Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths) Sample depth CORE SAMPLE 4' BELOW PIT BOTTOM.

Sample Date 11/18/1999 Sample Time 11:30AM, 10:45AM  
Sample results corner/center

Soil:	Benzene	(ppm)	<u>ND/ND</u>	Water:	Benzene	(ppb)	<u>NA</u>
	Total BTEX	(ppm)	<u>ND/ND</u>		Toluene	(ppb)	<u>NA</u>
	Field Headspace	(ppm)	<u>ND/ND</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>ND/ND</u>		Total Xylenes	(ppb)	<u>NA</u>

Groundwater Sample: Yes \_\_\_\_\_ No XXX (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 11-22-00 PRINTED NAME Jeff Cross

SIGNATURE Jeff Cross AND TITLE Project Manager

JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE  
P. O. BOX 507  
DULCE, NEW MEXICO 87528

Submit 1 copy to  
Natural Resource Dept.  
and Oil & Gas Administration

**PIT REMEDIATION AND CLOSURE REPORT**

Operator: <u>APACHE CORPORATION</u>		Telephone <u>505-325-0318</u>	
Address: <u>2855 SOUTH SIDE RIVER ROAD FARMINGTON N.M. 87401</u>			
Facility or Well Name: <u>JAT 390 # 2</u>			
Location:	Unit or Qtr/Qtr Sec	<u>NE/SE SEC 24 T 23N R 4W</u>	County <u>SANDOVAL</u>
Pit Type:	Separator: <u>          </u>	Dehydrator <u>          </u>	Other <u>BLOW PIT</u>
Land Type: <u>JIC. TRIBAL</u>			
<hr/>			
Pit Location: (Attach diagram)	Pit Dimensions:	Length <u>35'</u>	Width <u>35'</u> Depth <u>4'</u>
	Reference:	Wellhead <u>XXX</u>	Other <u>          </u>
	Footage from reference:	<u>200'</u>	
	Direction from reference:	<u>230°</u> Degrees	East <u>          </u> North <u>          </u> West <u>          </u> South <u>X</u>
<hr/>			
<b>Depth To Groundwater:</b> (vertical distance from contaminants to seasonal high water elevation of groundwater)		Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) <u>          </u> (10 points) <u>          </u> ( 0 points) <u>0</u>
<b>Distance to an Ephemeral Stream:</b> (Downgradient dry wash greater than ten feet in width)		Less than 100 feet Greater than 100 feet	(10 points) <u>          </u> ( 0 points) <u>0</u>
<b>Distance to Nearest Lake, Playa, or Watering Pond:</b> (Downgradient lakes, playas and livestock or wildlife watering ponds)		Less than 100 feet Greater than 100 feet	(10 points) <u>          </u> ( 0 points) <u>0</u>
<b>Wellhead Protection Area:</b> (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources)		Yes No	(20 points) <u>          </u> ( 0 points) <u>0</u>
<b>Distance To Surface Water:</b> (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)		Less than 100 feet 100 feet to 1000 feet Greater than 1000 feet	(20 points) <u>          </u> (10 points) <u>          </u> ( 0 points) <u>0</u>
		RANKING SCORE (TOTAL POINTS) <u>0</u>	

<b>Date Remediation Started:</b>		<u>11/18/99</u>		<b>Date Completed:</b>		<u>9-18-00</u>	
<b>Remediation Method:</b> (Check all appropriate sections)		Excavation _____		Approx. cubic yards _____			
		Landfarmed _____		Insitu Bioremediation _____			
		Other <u>Core sample 4' below pit bottom center, composite core sample 4' below pit bottom corners.</u>					
<b>Remediation Location:</b> (i.e. landfarmed onsite, name and location of offsite facility)		Onsite <u>XX</u>		Offsite _____			
<b>General Description of Remedial Action:</b> <u>9-18-00 Backfill pit and Reseed.</u>							
<u>NONE required Pit TO BE BACKFILLED and Reseeded.</u>							
<u>No Contaminations Detected.</u>							
<b>Groundwater Encountered:</b>		No <u>XXX</u>		Yes _____		Depth _____	
<b>Final Pit:</b>		<b>Sample location</b> <u>core sample 4' below pit bottom center, 4 point composite sample of pit bottom corners.</u>					
<b>Closure Sampling:</b> (in multiple samples, attach sample results and diagram of sample locations and depths)		<b>Sample depth</b> <u>CORE SAMPLE 4' BELOW PIT BOTTOM.</u>					
<b>Sample Date</b>		<u>11/18/99</u>		<b>Sample Time:</b>		<u>11:30Am, 10:45Am</u>	
<b>Sample results</b>							
Soil:	Benzene	(ppm)	<u>ND/ND</u>	Water:	Benzene	(ppb)	<u>NA</u>
	Total BTEX	(ppm)	<u>ND/NA</u>		Toluene	(ppb)	<u>NA</u>
	Field Headspace	(ppm)	<u>ND/ND</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>ND/ND</u>		Total Xylenes	(ppb)	<u>NA</u>
<b>Groundwater Sample:</b>		Yes _____		No <u>XXX</u>		(If yes attach sample results)	
<b>I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.</b>							
<b>DATE</b> <u>9-18-2000</u>		<b>PRINTED NAME</b>		<u>JEFF CROSS</u>			
<b>SIGNATURE</b> <u>Jeff Cross</u>		<b>AND TITLE</b>		<u>PROJECT MANAGER</u>			
<b>AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.</b>							
<b>APPROVED:</b>		YES <u>X</u>		NO _____		(REASON) _____	
<b>SIGNED:</b> <u>Kent C Mamm</u>		<b>DATE:</b>		<u>11-9-00</u>			

# Pit Impact Rating Sheet

Well Name: JAT 390 # 2

Well Location: NE/SE SEC 24 T 23 N R 4 W

Number of Pits at Location: 1

Pit Number and Usage: BLOW PIT

Estimated Elevation: 7150'

Estimated Groundwater Elevation: \_\_\_\_\_

Vulnerable Area: YES NO XX

Fluid in Pits: YES NO XX

% Water: 0

% Oil: 0

Visual Soil Contamination:

Highly Contamination/Satureated Soils: NONE

Unsatureated Contamination (Odor or PID Reading): ND

Suspected Groundwater Contamination: NO XX YES \_\_\_\_\_

Reason for Suspicion: \_\_\_\_\_

## RATING:

Depth to Groundwater:		Wellhead Protection Area:	
< 50'	20	< 1000' from water source, or	
50' - 99'	10	<200' from a domestic source?	
> 100'	0	Yes	20
Rating	0	No	0
		Rating	0

Distance to Surface Water:		Distance to Ephermal stream > 10 feet width	
< 200' horizontal feet	20	< 100' horizontal feet	Yes 10
200' - 1000' horizontal feet	10	> 100' horizontal feet	No 0
> 1000' horizontal feet	0	Rating	0
Rating	0		

Distance to Lake, Playa or Watering Pond	
< 100' horizontal feet	Yes 10
> 100' horizontal feet	No 0
Rating	0

## FINAL SOIL REMEDIATION STANDARDS:

Total Rating 0

TPH: 5000 ppm

Benzene: 10 ppm

BTEX: 50 ppm

## KNOWN ANALYSIS:

Soil: TPH: ND ppm Benzene: ND ppm BTEX: ND ppm

Groundwater: TPH: NA ppm Benzene: NA ppm BTEX: NA ppm

## PROBABLE SOIL REMEDIATION TECHNIQUE:

Bioremediation: On-Site \_\_\_\_\_

Composting: \_\_\_\_\_

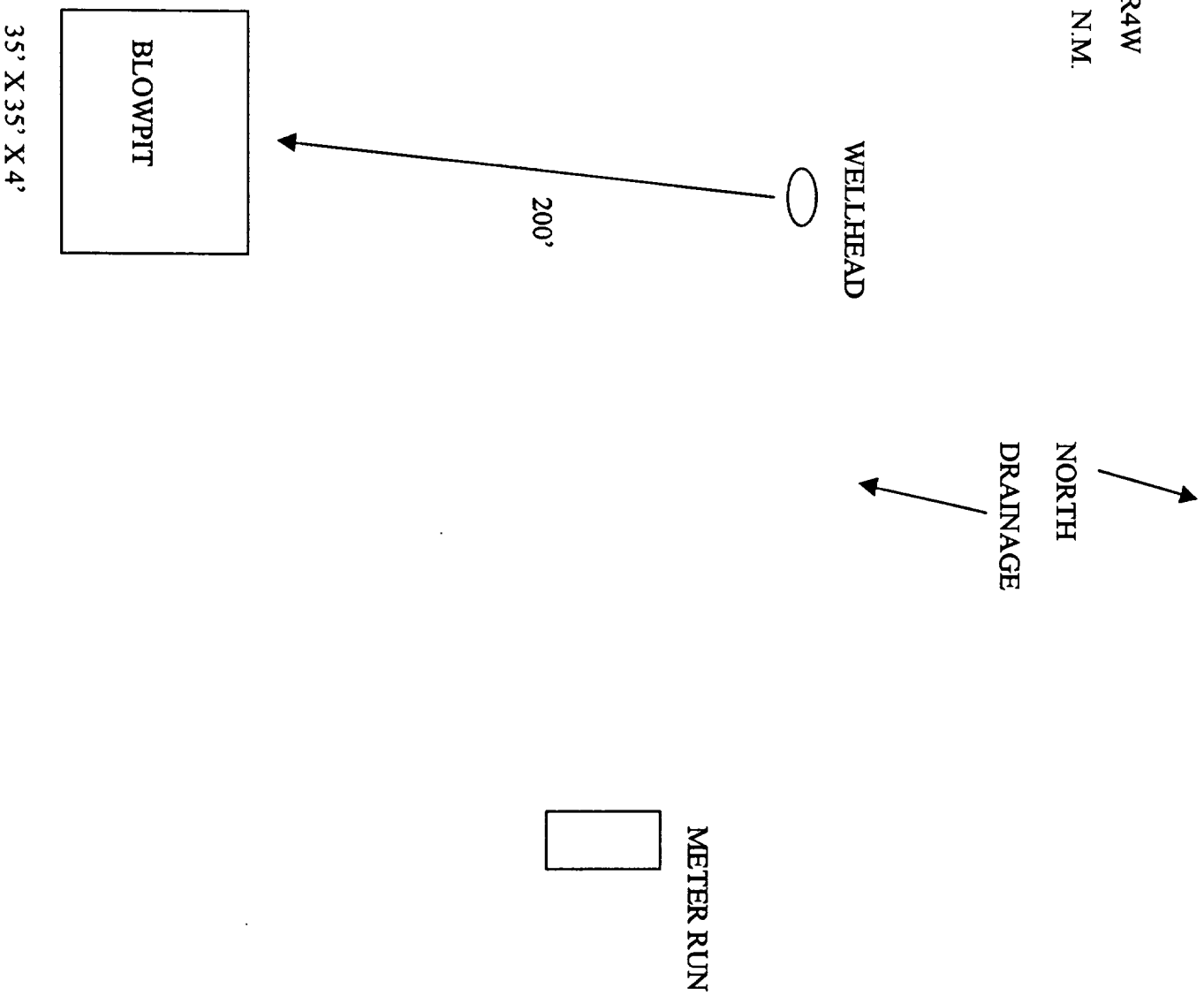
Disposal: Facility Name \_\_\_\_\_

Thermal Desorption: \_\_\_\_\_

Soil Venting: \_\_\_\_\_

Other: \_\_\_\_\_

JAT 390 # 2  
NE/SE (I) SEC 24 T23N R4W  
SANDOVAL, COUNTY N.M.



LOCATION	JAT 390 #2
PIT COUNT	1

PIT COUNT 1

[illegible]



# ASSAIGAI ANALYTICAL LABORATORIES, INC.

7300 Jefferson, NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259

3332 Wedgewood Dr., Suite N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

**APACHE CORPORATION**  
attn: **JEFF CROSS**  
**2855 SOUTHSIDE RIVER RD STE A**  
**FARMINGTON, NM 87401-7947**

### Explanation of codes

<b>B</b>	<i>analyte detected in Method Blank</i>
<b>E</b>	<i>result is estimated</i>
<b>H</b>	<i>analyzed out of hold time</i>
<b>N</b>	<i>tentatively identified compound</i>
<b>S</b>	<i>subcontracted</i>
<b>1-9</b>	<i>see footnote</i>

Assaigai Analytical Laboratories, Inc.

## Certificate of Analysis

Client: **APACHE CORPORATION**  
Project: **9911218 JIC. PIT REMEDIATION**

  
William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Client Sample ID **JAT 390#2PIT SIDES** Sample Matrix **SOIL** Sample Collected **11/18/99 11:00:00**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Run Code	Date
<b>9911218-01A SW846 5030A/8021B Purgeable VOCs by GC/PID</b>									
X99379	XG.1999.995-6	71-43-2	Benzene	ND	mg / Kg	1	0.005	1	11/24/99
X99379	XG.1999.995-6	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005	1	11/24/99
X99379	XG.1999.995-6	95-47-6	o-Xylene	ND	mg / Kg	1	0.005	1	11/24/99
X99379	XG.1999.995-6		p/m-Xylenes	ND	mg / Kg	1	0.01	1	11/24/99
X99379	XG.1999.995-6	108-88-3	Toluene	ND	mg / Kg	1	0.005	1	11/24/99

<b>9911218-01A SW846 ME/8015A Diesel Range Organics by GC/FID</b>									
X99385	XG.1999.1002-2		Diesel Range Organics	ND	mg / Kg	1	25		11/30/99

Client Sample ID **JAT390#2 PIT CENTER** Sample Matrix **SOIL** Sample Collected **11/18/99 10:45:00**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Run Code	Date
<b>9911218-02A SW846 5030A/8021B Purgeable VOCs by GC/PID</b>									
X99379	XG.1999.995-7	71-43-2	Benzene	ND	mg / Kg	1	0.005	1	11/24/99
X99379	XG.1999.995-7	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005	1	11/24/99
X99379	XG.1999.995-7	95-47-6	o-Xylene	ND	mg / Kg	1	0.005	1	11/24/99
X99379	XG.1999.995-7		p/m-Xylenes	ND	mg / Kg	1	0.01	1	11/24/99
X99379	XG.1999.995-7	108-88-3	Toluene	ND	mg / Kg	1	0.005	1	11/24/99



Assalgal Analytical Laboratories, Inc.  
**Certificate of Analysis**

Client: **APACHE CORPORATION**  
Project: **9911218 JIC. PIT REMEDIATION**

9911218-02A

SW846 ME/8015A Diesel Range Organics by GC/FID

X99385

XG.1999.1002-3

	Diesel Range Organics	ND	mg / Kg	1	25		11/30/99
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\*\*\* Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. \*\*\*

\*\*\* ND = Not detected: less than the sample specific Detection Limit. Results relate only to the items tested. \*\*\*

**footnote**      1      Sample was received in an improper container and with headspace.

**memo**              Please note that the cooler was received at a temperature greater than 4 degrees C.



**ASSAIGAI**  
**ANALYTICAL**  
**LABORATORIES, INC.**

# Chain of Custody Record

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

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

127 EASTGATE DRIVE, 212-C  
LOS ALAMOS, NEW MEXICO 87544  
(505) 662-2558

Lab Job No. 9911218 Date 11/23/99  
Page 1 of 1

Client Assaigai Corporation  
Address 2100 S. 1st St. Suite 200 El Paso, TX 79901  
City/State/Zip El Paso, TX 79901  
Project Name/Number P.T. Remediation  
Contract/Purchase Order/Quote

Project Manager/Contact JEFF CROMB  
Telephone No. 505-325-0318  
Fax No. 505-325-0328  
Samplers: (Signature) Jeff C

Received by: Jenni Sanderson  
Signature J. Sanderson  
Printed J. Sanderson  
Company AAI  
Reason Analysis

Relinquished by:   
Signature   
Printed   
Company   
Reason

Date 11/23/99  
Time 4:15

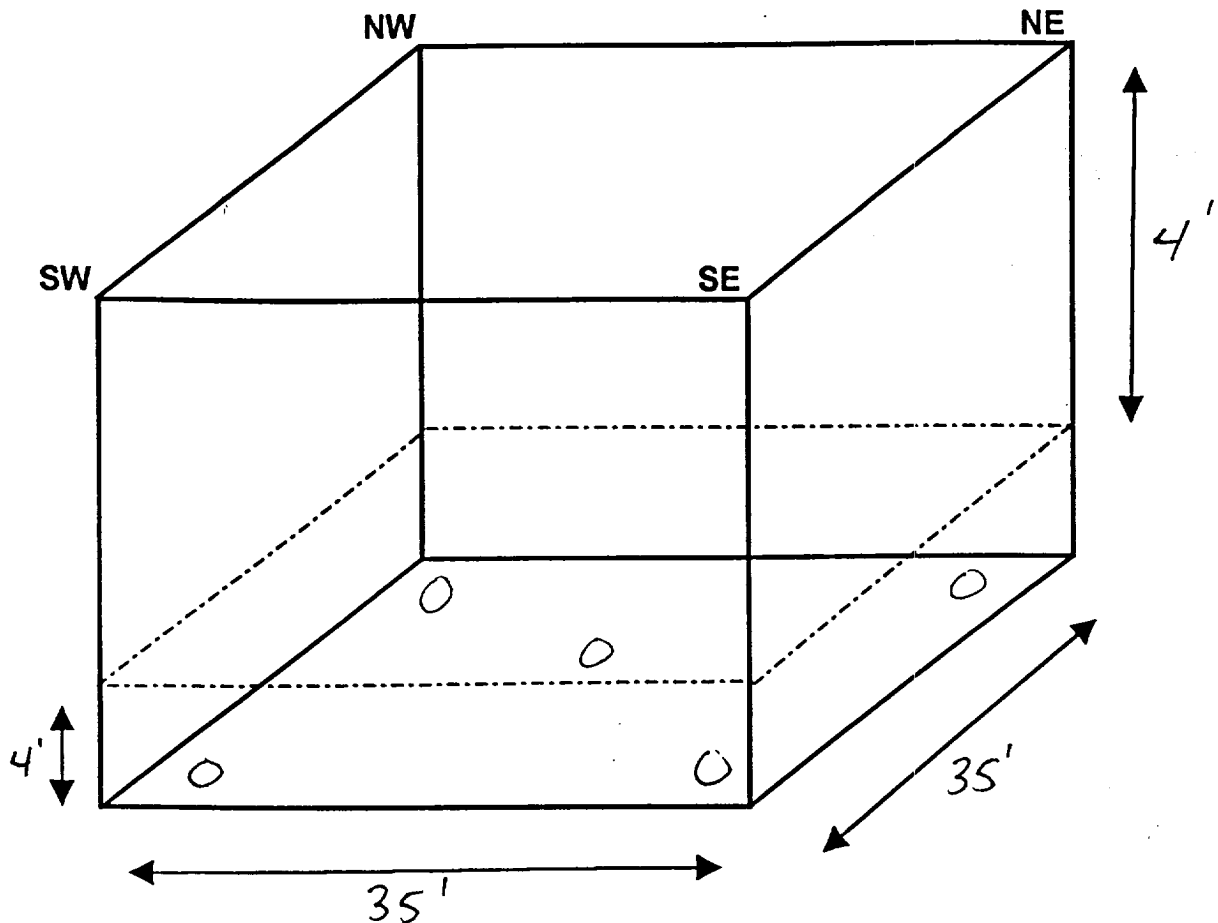
Comments: GPS

Disposition:

Returned to customer:

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

COURIER



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= PIT BOTTOM



= SAMPLE AREA

WELL NAME

JAT 390 #2

SAMPLE DATE

11-18-99

NOTES

4 POINT COMPOSITE SAMPLE TAKEN 4' BELOW PIT

BOTTOM CORNERS.

1 POINT GRAB SAMPLE TAKEN 4' BELOW PIT BOTTOM CENTER

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