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 Telephon 505-325-0318

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

Facility or Well Name: JAT 358 #6

Location: Unit or Qtr/Qtr Sec SW/NW Sec 6 T 22N R 2W County SANDOVAL

Pit Type: Separator: _____ Dehydrator _____ Other BLOW PIT

Land Type: JIC. TRIBAL

Pit Location: (Attach diagram)

Beginning Pit Dimensions:	Length	50'	Width	35'	Depth	6'
Ending Pit Dimensions:	Length	50'	Width	35'	Depth	6'

Reference: Wellhead XXX Other _____

Footage from reference: 150'

Direction from reference: 140 Degrees _____ East of North _____
_____ West South X

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)	0
Distance to an Ephemeral Stream: (Downgradient dry wash greater than ten feet in width	Less than 100 feet	(10 points)	
	Greater than 100 feet	(0 points)	0
Distance to Nearest Lake, Playa, or Watering Pond: (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet	(10 points)	
	Greater than 100 feet	(0 points)	0
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)	0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 100 feet	(20 points)	
	100 feet to 1000 feet	(10 points)	
	Greater than 1000 feet	(0 points)	0
	RANKING SCORE (TOTAL POINTS)		0

Date Remediation Started: 11/19/1999 Date Completed: 09/20/2000

Remediation Method: (Check all appropriate sections)

Excavation _____ Approx. cubic yards _____

Landfarmed _____ Insitu Bioremediation _____

Other Core sample 4' below pit bottom center, composite core sample 4' below pit bottom corners

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

Onsite XX Offsite _____

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

9/20/00 BACKFILLED AND RESEEDED

Groundwater Encountered: No XXX Yes _____ Depth _____

Final Pit: Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)

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

Sample depth CORE SAMPLE 4' BELOW PIT BOTTOM.

Sample Date 11/19/1999 Sample Time 8:15AM, 8:30AM

Sample results corner/center

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

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: APACHE CORPORATION Telephone 505-325-0318

Address: 2855 SOUTH SIDE RIVER ROAD FARMINGTON N.M. 87401

Facility or Well Name: JAT 358 # 6

Location: Unit or Qtr/Qtr Sec SW/NW SEC 6 T 22N R 2W County SANDOVAL

Pit Type: Separator: _____ Dehydrator _____ Other BLOW PIT

Land Type: JIC. TRIBAL

Pit Location: (Attach diagram)

Pit Dimensions: Length 50' Width 35' Depth 6'

Reference: Wellhead XXX Other _____

Footage from reference: 150'

Direction from reference: 140° Degrees _____ East North of _____ West South X

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)	0
Distance to an Ephemeral Stream: (Downgradient dry wash greater than ten feet in width	Less than 100 feet	(10 points)	
	Greater than 100 feet	(0 points)	0
Distance to Nearest Lake, Playa, or Watering Pond: (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet	(10 points)	
	Greater than 100 feet	(0 points)	0
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)	0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 100 feet	(20 points)	
	100 feet to 1000 feet	(10 points)	
	Greater than 1000 feet	(0 points)	0
	RANKING SCORE (TOTAL POINTS)		0

Date Remediation Started: 11/19/99 Date Completed: 9-20-00

Remediation Method: (Check all appropriate sections)

Excavation _____ Approx. cubic yards _____

Landfarmed _____ Insitu Bioremediation _____

Other Core sample 4' below pit bottom center,composite core sample 4' below pit bottom corners.

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

Onsite XX Offsite _____

General Description of Remedial Action: . NONE Required, Pit TO BE Back filled and Reseeded. No Contamination Detected - 9-20-00 Backfill pit AND Re seed.

Groundwater Encountered: No XXX Yes _____ Depth _____

Final Pit: Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)

Sample location: core sample 4' below pit bottom center,4point composite sample of pit bottom corners.

Sample depth: CORE SAMPLE 4' BELOW PIT BOTTOM.

Sample Date: 11/19/99 Sample Time; 8:15Am,8:30Am

Sample results

			corners/center				
Soil:	Benzene	(ppm)	ND/ND	Water:	Benzene	(ppb)	NA
	Total BTEX	(ppm)	ND/ND		Toluene	(ppb)	NA
	Field Headspace	(ppm)	ND/ND		Ethylbenzene	(ppb)	NA
	TPH	(ppm)	ND/ND		Total Xylenes	(ppb)	NA

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 9-20-2000 JC **PRINTED NAME** JEFF CROSS

SIGNATURE Jeff Cross **AND TITLE** PROJECT MANAGER

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON) _____

SIGNED: Kevin C Manuel **DATE:** 11-9-00

Pit Impact Rating Sheet

Well Name: JAT 358 # 6
Well Location: SW/NW SEC 6 T 22 N R 2 W
Number of Pits at Location: 1
Pit Number and Usage: BLOW PIT
Estimated Elevation: 7300'
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:

< 50'	20
50' - 99'	10
> 100'	0
Rating	0

Wellhead Protection Area:
< 1000' from water source, or
<200' from a domestic source?

Yes	20
No	0
Rating	0

Distance to Surface Water:

< 200' horizontal feet	20
200' - 1000' horizontal feet	10
> 1000' horizontal feet	0
Rating	0

Distance to Ephermeral stream > 10 feet width

< 100' horizontal feet	Yes	10
> 100' horizontal feet	No	0
	Rating	0

Distance to Lake, Playa or Watering Pond

< 100' horizontal feet	Yes	10
> 100' horizontal feet	No	0
	Rating	0

Total Rating 0

FINAL SOIL REMEDIATION STANDARDS:

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

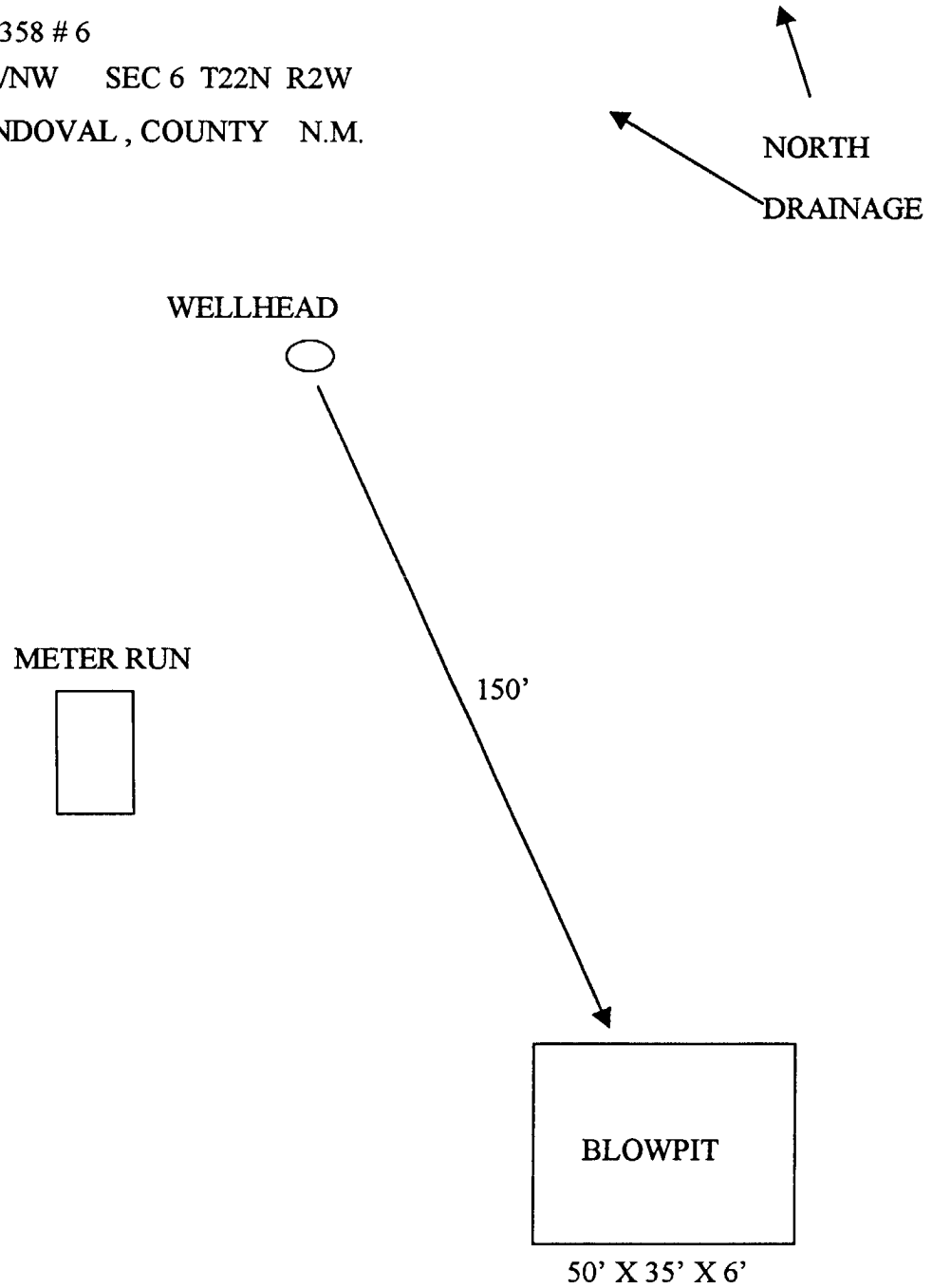
Composting:

Disposal: Facility Name
Thermal Desorption:
Soil Venting:
Other:

JAT 358 # 6

SW/NW SEC 6 T22N R2W

SANDOVAL , COUNTY N.M.



APACHE CORPORATION/FARMINGTON DISTRICT
PIT EXCAVATION AND CLOSURE REPORT

LOCATION JAT 358 # 6

PIT COUNT 1

START					FINISH				
DIMENSIONS									
	L	W	D			L	W	D	CU YDS
Pit 1	50'	35'	6'		Pit 1				
Pit 2					Pit 2				
Pit 3					Pit 3				
DATE:		Pit 1 @ 10'	Pit 2 @	Pit 3 @	Date:		Pit 1 @	Pit 2 @	Pit 3 @
PID	Center	ND			PID	Center			
	NW Corner	ND				NW Corner			
	NE Corner	ND				NE Corner			
	SW Corner	ND				SW Corner			
	SE Corner	ND				SE Corner			

NOTE PIT SHOWS NO VISIABLE STAINING , OVERGROWN WITH SAGEBRUSH.

11/19/99 TOOK ONE CORE SAMPLE 4' BELOW PIT BOTTOM CENTER, PID READINGS ND.
NO VISIABLE STAINING OR ODOR.
11/19/99 TOOK 4 POINT COMPOSITE CORE SAMPLE 4' BELOW PIT BOTTOM CORNERS.
PID READINGS ND. WITH NO VISIABLE STAINING OR ODOR.

DATE 11/19/99 SOIL SAMPLING

		Pit 1 @ 10'	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	Assaigai
PID	Center	ND			PIT	TPH	BETEX	WITNESS	DATE
	NW Corner	ND			NO	SIDE\BTM	SIDE\BTM		
	NE Corner	ND			1	ND/ND	ND/ND	J.C.	11/19/99
	SW Corner	ND			2				
	SE Corner	ND			3				

RE-SAMPLE

DATE:		Pit 1 @	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	
PID	Center				PIT	TPH	BETEX	WITNESS	DATE
	NW Corner				NO	SIDE\BTM	SIDE\BTM		
	NE Corner				1				
	SW Corner				2				
	SE Corner				3				

RE-SAMPLE

DATE:		Pit 1 @	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	
PID	Center				PIT	TPH	BETEX	WITNESS	DATE
	NW Corner				NO	SIDE\BTM	SIDE\BTM		
	NE Corner				1				
	SW Corner				2				
	SE Corner				3				

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

Explanation of codes	
B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

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

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **APACHE CORPORATION**
Project: **9911223 JIC. PIT REMEDIATION**

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

Client Sample ID ***JAT358#6 PIT SIDES*** Sample Matrix ***SOIL*** Sample Collected ***11/19/99 08:15:00***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
9911223-01A		**SW846 5030A/8021B Purgeable VOCs by GC/PID**							
X99383	XG.1999.993-14	71-43-2	Benzene	ND	mg / Kg	1	0.005	1	11/24/99
X99383	XG.1999.993-14	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005	1	11/24/99
X99383	XG.1999.993-14	95-47-6	o-Xylene	ND	mg / Kg	1	0.005	1	11/24/99
X99383	XG.1999.993-14		p/m-Xylenes	ND	mg / Kg	1	0.01	1	11/24/99
X99383	XG.1999.993-14	108-88-3	Toluene	ND	mg / Kg	1	0.005	1	11/24/99
9911223-01A		**SW846 ME/8015A Diesel Range Organics by GC/FID**							
X99385	XG.1999.1002-12		Diesel Range Organics	ND	mg / Kg	1	25		11/30/99

Client Sample ID ***JAT358#6 PIT CENTER*** Sample Matrix ***SOIL*** Sample Collected ***11/19/99 08:30:00***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
9911223-02A		**SW846 5030A/8021B Purgeable VOCs by GC/PID**							
X99383	XG.1999.993-17	71-43-2	Benzene	ND	mg / Kg	1	0.005	1	11/24/99
X99383	XG.1999.993-17	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005	1	11/24/99
X99383	XG.1999.993-17	95-47-6	o-Xylene	ND	mg / Kg	1	0.005	1	11/24/99
X99383	XG.1999.993-17		p/m-Xylenes	ND	mg / Kg	1	0.01	1	11/24/99
X99383	XG.1999.993-17	108-88-3	Toluene	ND	mg / Kg	1	0.005	1	11/24/99

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **APACHE CORPORATION**

Project: **9911223** **JIC. PIT REMEDIATION**

9911223-02A **SW846 ME/8015A Diesel Range Organics by GC/FID**

X99385	XG.1999.1002-13		Diesel Range Organics	ND	mg / Kg	1	25		11/30/99

**** 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 with headspace.

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

ASSAIGAI ANALYTICAL LABORATORIES, INC.

APA 01 D-8 12/07

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.: 9911223 Date: 11/23/99

Page ____ of ____

Client: [illegible]

Address: [illegible]

City/State/Zip: [illegible] NM 87401

Project Name/Number: [illegible]

Contract/Purchase Order/Quote: ____

Project Manager/Contact: Jeff [illegible]

Telephone No.: 505-325-0318

Fax No.: 505-325-0328

Samplers: (Signature) [illegible]

Sample Identification	Date	Time	Matrix	Container Type	Preservation Cont.	Preservation Chemical													
[illegible]	11-19-99	8:15	soil	500 g glass			1	X	X										
[illegible]	11-19-99	8:30	soil	500 g glass			1	X	X										

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: ____	11-19-99	Signature: ____	Signature: ____	11/23/99	Signature: Jenni Samuelson
Printed: ____	Time: 4:15	Printed: ____	Printed: ____	Time: 14:00	Printed: J. Samuelson
Company: ____		Company: ____	Company: ____		Company: AA
Reason: ____		Reason: ____	Reason: ____		Reason: Analysis

Method of Shipment: UPS

Shipper: ____

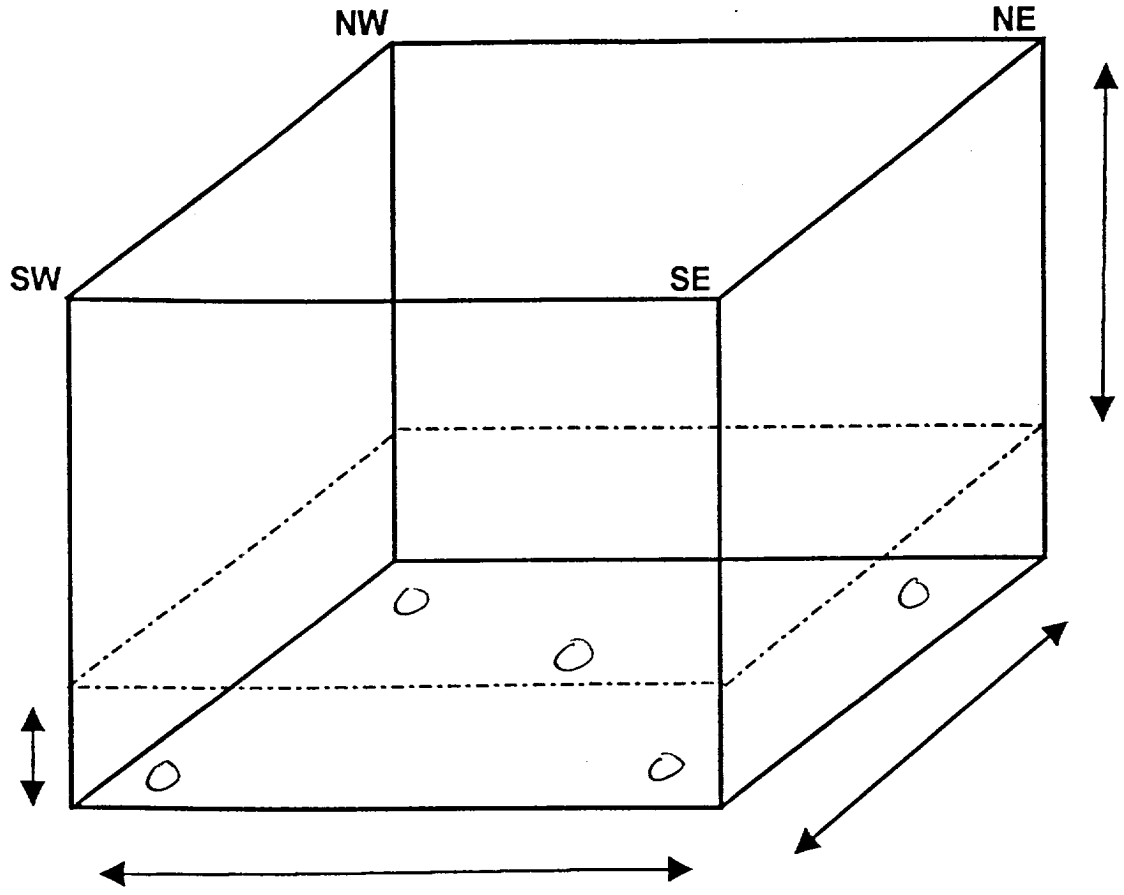
Special Instructions: ____

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



= PIT BOTTOM

= SAMPLE AREA

WELL NAME JAT 358 #6

SAMPLE DATE 11-19-99

NOTES 4 POINT COMPOSITE SAMPLE TAKEN 4' BELOW PIT BOTTOM CORNERS.

1 POINT GRAB SAMPLE TAKEN 4' BELOW PIT BOTTOM CENTER