3R – 054 - 03

PIT CLOSURE

07 / 22 / 1992

3R-054-3
30-045-21472
D39 OK
94424

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

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

RECEIVED
OCT - 4 1999
OIL CON. DIV.
DIST. 3

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone: (505) 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: VCU #11
Well Name

Location: Unit or Qtr/Qtr Sec D Sec 26 T 28N R 4W County RIO ARRIBA

Pit Type: Separator ___ Dehydrator ___ Other BLOW

Land Type: BLM ✓, State ___, Fee ___, Other UNIT AGMT.

Pit Location: (Attach diagram)
Pit dimensions: length 35', width 35', depth 8'
Reference: wellhead X, other ___
Footage from reference: 255'
Direction from reference: 11 Degrees ___ East North ✓ of ✓ West South ___

Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet (20 points) 50 feet to 99 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 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)	0
	RANKING SCORE (TOTAL POINTS):	0

94424 BLOW PIT

Date Remediation Started: _____ **Date Completed:** 7/22/92

Remediation Method: (Check all appropriate sections) Excavation ✓ Approx. cubic yards 250

Landfarmed ___ Insitu Bioremediation ___

Other STOCKPILE

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

General Description Of Remedial Action: Excavation

Ground Water Encountered: No ✓ Yes ___ Depth _____

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

Sample location see Attached Documents

Sample depth 8' (PIT Bottom)

Sample date 7/21/92 Sample time 1415

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 0.0

TPH 35.9 ppm

Ground Water Sample: Yes ___ No ✓ (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 7/22/92

SIGNATURE B J Shaw PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator

94424

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615

1650

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140
PAGE No: 1 of 1

LOCATION: LEASE: Valencia Canyon Unit WELL: No. 11 QD: NW/4 NW/4 D
SEC: 26 TWP: 28N RNG: 4W BM: N.M. CNTY: R.A. ST: NM PIT: Blow
CONTRACTOR: Vaughn well Service
EQUIPMENT USED: Loader
Fed Lease No. 14920

DATE STARTED: 7-21-92
DATE FINISHED: 7-21-92
ENVIRONMENTAL SPECIALIST: WJ

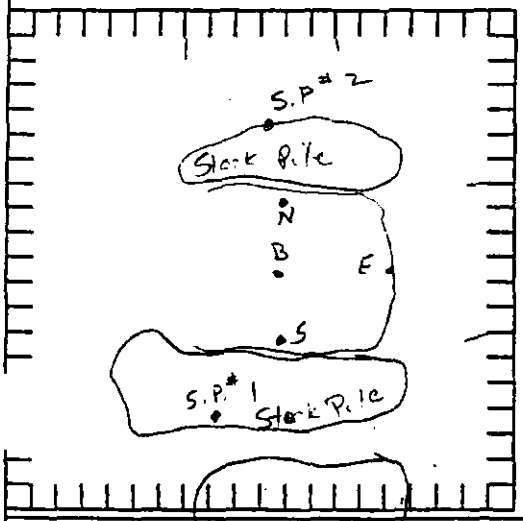
SOIL REMEDIATION: QUANTITY: 250 cy material
DISPOSAL FACILITY: On Site
LAND USE: Forest
SURFACE CONDITIONS: EARthen Pit

FIELD NOTES & REMARKS: Pit Area and Stock piles seem to be Realitively clean, Stock pile on South side of pit has isolated pockets of contamination No big quantities. Pit is Ready For back fill.

Pit is Located approx. 250' North and 50' west of well head

TPH from bottom of Pit

SCALE
0 5' 10' FEET
PIT PERIMETER

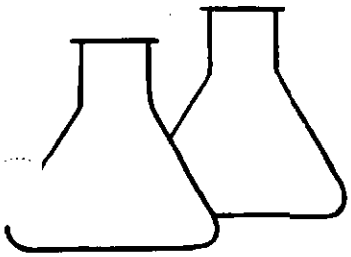


SAMPLE RESULTS

SMPL No:	ANALYTICAL RESULTS
P	ND OVM
S.P#1	9.5 OVM
S	ND OVM
E	ND OVM
N	ND OVM
S.P#2	4.7 OVM

SCALE
0 FEET
PIT PROFILE

TRAVEL NOTES: CALLOUT: ONSITE:



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	AMOCO	Project #:	92140
Sample ID:	Bottom Pit	Date Reported:	07-22-92
Laboratory Number:	1997	Date Sampled:	07-21-92
Sample Matrix:	Soil	Date Received:	07-21-92
Preservative:	Cool	Date Analyzed:	07-22-92
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	35.9	5.0

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Valencia Canyon Unit #11 Blow Pit 94424

Analyst

Review

1050

CHAIN OF CUSTODY RECORD

94424

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
Amoco 92140	Blow Pit Valencia Canyon Unit #11	

Sampler: (Signature)
J. Walkee

Chain of Custody Tape No.

Sample No./ identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH						Remarks
Bottom Pit	7-21-92	2:15	1997	Soil	1	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J. Walkee	7-21-92	1704	Kelly Pickering	7-21-92	1704
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

san juan repro Form 878-81

CLIENT: AMOCO	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: C-1424 C.O.C. NO:

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: VCU WELL #: 11 PITS: BLOW

QUAD/UNIT: D SEC: 26 TWP: 29N RNG: 4W PM: NM CNTY: RA ST: NM

QTR/FOOTAGE: CONTRACTOR:

DATE STARTED: 11-18-97

DATE FINISHED:

ENVIRONMENTAL SPECIALIST: JCG

SOIL REMEDIATION:

REMEDIATION SYSTEM: STOCKPILE (LANDFARM) APPROX. CUBIC YARDAGE: 250

LAND USE: RANGE LIFT DEPTH (ft):

FIELD NOTES & REMARKS:

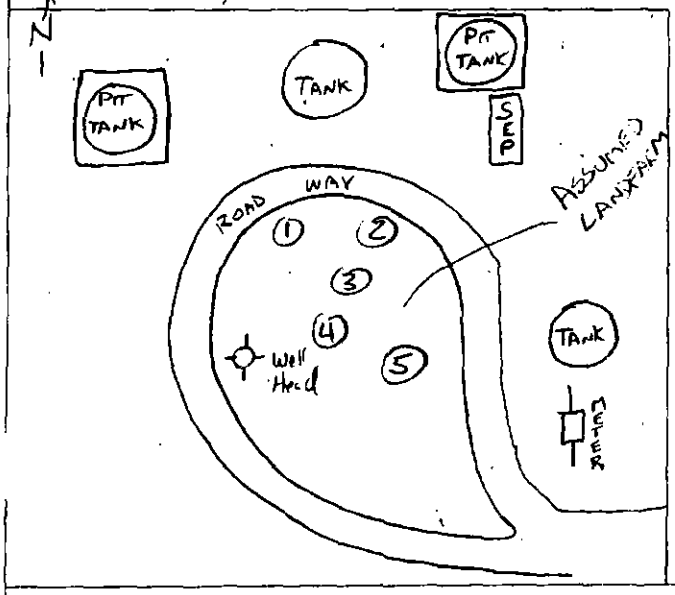
DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000

NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1215	LF-1	1936	5.0	20.0	4x	114	456

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
LF-1	0.0

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS

SCALE

0 FT

TRAVEL NOTES: CALLOUT: ONSITE:

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	AMOCO	Project #:	
Sample ID:	Landfarm	Date Analyzed:	11-19-97
Project Location:	VCU # 11	Date Reported:	11-19-97
Laboratory Number:	TPH-1936	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	**460**	**20**

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
608	568	6.80

*Administrative Acceptance limits set at 30%.

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Landfarm Composite Sample

J. C. Blagg
Analyst

Review

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

Field TPH-Worksheet

Max Characters:	**********		
Client:	AMOCO	Project #:	
Sample ID:	Landfarm	Date Analyzed:	11-19-97
Project Location:	VCU # 11	Date Reported:	11-19-97
Laboratory Number:	TPH-1936	Sample Matrix:	Soil

Sample Weight:	5.00	grams
Volume Freon:	20.00	mL
Dilution Factor:	1	(unitless)
TPH Reading:	114	mg/kg

TPH Result:	456.0	mg/kg
Reported TPH Result:	460	mg/kg
Actual Detection Limit:	20.0	mg/kg
Reported Detection Limit:	20	mg/kg

QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.
	608	568	6.80

Comments: **********Max Characters**********

Comments: Landfarm Composite Sample

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

RISK
BTEX
TPH

Valencia Canyon #11
Meter/Line ID – 90063

SITE DETAILS

Legals - Twn: 28N	**Rng: 4W**	**Sec:.26**	**Unit: D**
NMOCD Hazard Ranking: 20		**Land Type: US Forest Service**	
Operator: Amoco		**Pit Closure Date: 06/29/94**	

RATIONALE FOR RISK-BASED CLOSURE

The pit noted above was assessed and ranked according to the criteria in the New Mexico Oil Conservation Division's (NMOCD) Unlined Surface Impoundment Closure Guidelines.

A Phase I excavation was conducted on June 29, 1994, to 12 feet below ground surface and a soil sample was collected for field headspace analysis and laboratory analysis for benzene, total BTEX, and TPH. Groundwater was not encountered in the test pit. Approximately 90 cubic yards of excavated material was removed for landfarming and sent to an OCD approved centralized site. The pit was backfilled and graded in a manner to direct surface runoff away from the pit area. Headspace analysis indicated an organic vapor content of 433 ppm; laboratory analysis indicated a benzene concentration of 3.2 mg/kg, a total BTEX concentration of 204 mg/kg, and a TPH concentration of 2590 mg/kg. TPH and total BTEX were above required remediation levels for the Hazard Ranking Score.

On June 27, 1995, a Phase II borehole was conducted to 30 feet below ground surface where bedrock was encountered. Groundwater was not encountered in the borehole. The borehole was grouted to the surface in a manner to direct surface runoff away from the pit area.

El Paso Field Services Company (EPFS) requests closure of the above mentioned production pit location for the following reasons:

- The primary source, discharge to the pit, has been removed for six years.
- The pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- Groundwater was not encountered in the excavations or borehole.
- Residual hydrocarbons in the soil will degrade naturally with minimal risk to the environment.
- Bedrock was encountered at 30 feet below ground surface; consequently, impact to groundwater is unlikely.
- Excavated material has been removed from the pit eliminating potential direct contact with livestock and the public.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.
- The pit was excavated to the practical extent of the equipment, according to EPNG's pit closure plan.

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: ~~90663~~ 90063 Location: VALENCIA CANYON #11

Operator #: 0203 Operator Name: AMOCO P/L District: BLOOMFIELD

Coordinates: Letter: D Section 26 Township: 28 Range: 4

Or Latitude _____ Longitude _____

Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____

Site Assessment Date: 5-15-94 Area: 10 Run: 62

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)

Inside ☒ (1)

Outside ☐ (2)

Land Type:

BLM ☐ (1)

State ☐ (2)

Fee ☐ (3)

Indian _____

FOREST ☒

Depth to Groundwater

Less Than 50 Feet (20 points) ☒ (1)

50 Ft to 99 Ft (10 points) ☐ (2)

Greater Than 100 Ft (0 points) ☐ (3)

Wellhead Protection Area :

Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction? , or ; Is it less than 200 ft from a private domestic water source? ☐ (1) YES (20 points) ☒ (2) NO (0 points)

Horizontal Distance to Surface Water Body

Less Than 200 Ft (20 points) ☐ (1)

200 Ft to 1000 Ft (10 points) ☐ (2)

Greater Than 1000 Ft (0 points) ☒ (3)

Name of Surface Water Body _____

(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

Distance to Nearest Ephemeral Stream ☐ (1) < 100'(Navajo Pits Only)

☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 20 **POINTS**

REMARKS

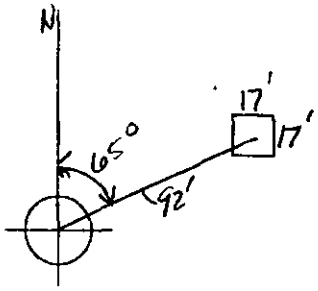
Remarks : 2 PITS ON LOCATION, ONE PIT TO CLOSE

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 65° Footage from Wellhead 89'

b) Length : 17' Width : 17' Depth : 2'



REMARKS

Remarks :

PHOTOGRAPHS AH-7(1-4)

Completed By:

Signature

5-15-94

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 90063 Location: VALENCIA CANYON #11

Coordinates: Letter: D Section 26 Township: 28 Range: 4

Or Latitude _____ Longitude _____

Date Started : 6-29-94 Area: 10 Run: 62

FIELD OBSERVATIONS

Sample Number(s): KP#113 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 433 PID Reading Depth 12' Feet

Yes No

Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ (1) Approx. Cubic Yards 90

Onsite Bioremediation ☐ (2)

Backfill Pit Without Excavation ☐ (3)

Soil Disposition:

Envirotech ☐ (1) ☒ (3) Tierra

Other Facility ☐ (2) Name: _____

Pit Closure Date: 6-29-94 Pit Closed By: B.E.I

REMARKS

Remarks : Some Line markers started Remediating to 12' Soil Turned Dark gray. with A Smell. At 12' soil still the same.

Signature of Specialist: Kelly Padilla

(SP3191) 04/07/94

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP113	945553
MTR CODE | SITE NAME:	90063	N/A
SAMPLE DATE | TIME (Hrs):	6-29-94	1019
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	6-30-94	6/30/94
DATE OF BTEX EXT. | ANAL.:	7/7/94	7/7/94
TYPE | DESCRIPTION:	VC	Dark brown fine sand & clay

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	3.2	MG/KG	20			
TOLUENE	45	MG/KG	20			
ETHYL BENZENE	16	MG/KG	20			
TOTAL XYLENES	140	MG/KG	20			
TOTAL BTEX	204	MG/KG				
TPH (418.1)	2590	MG/KG			2.04	28
HEADSPACE PID	433	PPM				
PERCENT SOLIDS	87.0	%				

– TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 –

The Surrogate Recovery was at 195 ~~Hmmm~~ 6/30/94 % for this sample All QA/QC was acceptable.

Narrative:
ATI results attached. Surrogate recovery was outside ATI QC limits due to matrix interference.

DF = Dilution Factor Used

Approved By: JP Date: 7/17/94

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 107301

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	945552	NON-AQ	06/29/94	07/07/94	07/07/94	1
11	945553	NON-AQ	06/29/94	07/07/94	07/07/94	20

PARAMETER	UNITS	10	11
BENZENE	MG/KG	<0.025	3.2
TOLUENE	MG/KG	<0.025	45
ETHYLBENZENE	MG/KG	<0.025	16
TOTAL XYLENES	MG/KG	0.030	140
SURROGATE:			
BROMOFLUOROBENZENE (%)		90	195*

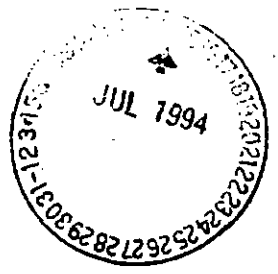
*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

Analytical Technologies, Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. **407301**

July 12, 1994



El Paso Natural Gas Co.
P.O. Box 4990
Farmington, NM 87499

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **07/01/94**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** 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.

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure

El Paso Natural Gas Company

CHAIN OF CUSTODY RECORD

Page _____ of _____

PROJECT NUMBER	PROJECT NAME
11957	Pit Closure Project # 24324

SAMPLERS: (Signature) Kelly Padilla DATE: 6-29-94

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	SAMPLE TYPE	REQUESTED ANALYSIS: TPH EPA 418.1	BTEX EPA 8020		SCR			REMARKS
				KP 6-29-94									
94 5557	6-29-94	1019	soil	KP # 113	1	VC	X	X		101			
~~6-29-94~~ 6-26-94	~~6-29-94~~ KP		soil	KP # 114 KP 6-26-94	1	VC	X	X		102			

CONTRACT LABORATORY P. O. NUMBER

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Kelly Padilla	6-29-94 1830	Brenda Liess	Brenda Liess 6/30/94 0915	300	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)
					Kim Kirk

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

FIELD SERVICES LABORATORY
EL PASO NATURAL GAS COMPANY
P. O. BOX 4990
FARMINGTON, NEW MEXICO 87499
505-599-2144 FAX: 505-599-2261

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of 1

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Project Name EPNG Pits
Project Number 14509 Phase ~~601~~ 2000
Project Location Valencia Canyon #11, 90063

Elevation
Borehole Location T29, R4, S.26, D
GWL Depth
Logged By S.Kelly
Drilled By K. Padilla
Date/Time Started 6/27/95, 0855
Date/Time Completed 6/27/95, 1100

Well Logged By S.Kelly
Personnel On-Site K. Padilla, F. Rivera, D. Charley
Contractors On-Site
Client Personnel On-Site

Drilling Method 4¼" ID HSA
Air Monitoring Method CGI, PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU BZ	Air Monitoring Units: NDU BH	Air Monitoring Units: NDU S/HS	Drilling Conditions & Blow Counts
0				Backfill to 12'						
5										
10										
15	1	15-17	1.2'	SAND, brown, fine to med grain, loose, damp.		18	0	0	352/664	0905
20	2	20-22	.7'	clayey SAND, fine sand, trace silt, dk. brown, loose damp.		23			399/551	0915
25	3	25-27	.3'	silty SAND, light tan, fine sand, 10-25% silt, very dense					595/972	spoon only driven 2" Feels like 0925 weathered rock
30	4	30-32	.15'	SAA, w/ trace clay.			13	113	241/610	spoon only driven 0943 2"
				BOH - 30'						
35										
40										

Comments: Auger refusal at 30' No sample taken due to high headspace readings at refusal. BH grouted to surface

Geologist Signature Sarah Kelly