

Approved

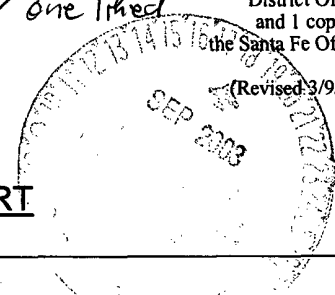
District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

2 Abcd pits  
one lined

Submit 1 copy to  
appropriate  
District Office  
and 1 copy to  
the Santa Fe Office  
(Revised 3/9/94)



30-031-20640 PIT REMEDIATION AND CLOSURE REPORT

Operator: Warren E & P Telephone: (307)237-3535

Address: 123 W. First St., Ste.505 Casper, WY 82601

Facility Or: Chittum-Penistaja #1  
Well Name

Location: Unit or Qtr/Qtr Sec P Sec 36 T 20N R 5W County McKinnley

Pit Type: Separator            Dehydrator            Other            Abandoned Pit

Land Type: BLM           , State X, Fee            Other           

Pit Location: Pit dimensions: length 30', width 20', depth 4'  
(Attach diagram)

Reference: wellhead X, other           

Footage from reference: 50'

Direction from reference: 50 Degrees            East North X  
of  
X 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) <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)
	No	( 0 points) <u>0</u>

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): 0 pts.

Date Remediation Started: 9/5/03 Date completed: 9/5/03

Remediation Method: Excavation \_\_\_\_\_ Approx. cubic yards \_\_\_\_\_  
(Check all appropriate sections.) Landfarmed \_\_\_\_\_ Insitu Bioremediation \_\_\_\_\_  
Other \_\_\_\_\_

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

General Description of Remedial Action: \_\_\_\_\_

A soil sample was extracted at 7-ft below ground level (4-ft. below pit bottom). The sample was analyzed for GRO/DRO analysis. All analyses were within BLM and NMOCD requirements.

Ground Water Encountered: No X Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit: Sample location Center of pit, 7-ft below surface level (4-ft. below pit bottom)

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

Sample depth 4-ft. below pit bottom

Sample Date 9/5/03 Sample time 7:30

Sample Results

Benzene(ppm) N/A

Total BTEX(ppm) N/A

Field headspace(ppm) Non-Detect

TPH Non-Detect

Ground Water 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 9/17/03

Signature Frank McDonald

Printed Name Frank McDonald  
and Title Senior Environmental Specialist

**Location:** Chittum-Penistaja # 1  
**Footages:** 990' FSL & 990' FEL  
**Unit Letter:** P **Sec.** 36 **Twn.** 20N **Rng** 5W  
**Latitude:** **Longitude:**  
**Lease Num.** **Land Type:** NM State

**Pit Type:** Abandoned

**Pit Reference**

**Reference:** Wellhead Marker **Footage:** 50-ft  
**Direction:** N or S 50 Degrees E or W  
**Initial size:** 30' x 20' x 4' deep  
**Final Size:** 30' x 20' x 4' deep

**Total Cubic Yards:** 0

**Distances from (ft):**

**Groundwater:** >100-ft  
**Wellhead Protection Area:** >1000-ft  
**Nearest Surface Water:** >1000-ft  
**Distance to ephemeral stream:** N/A

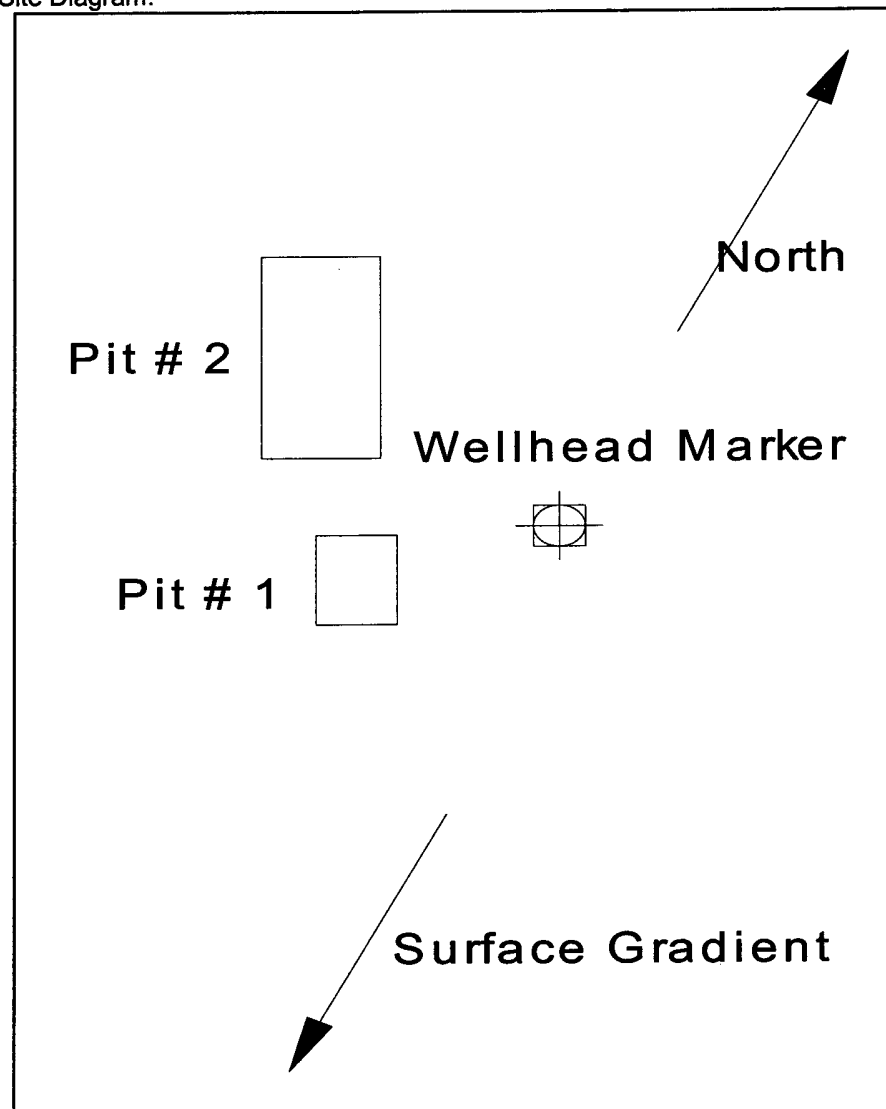
(Navajo/Jicarilla only)

**Ranking Score (points):** 0

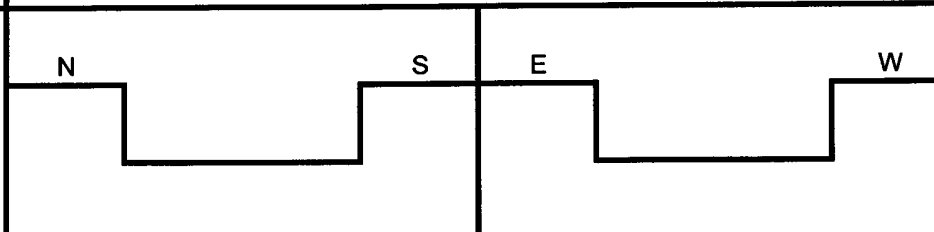
Sample ID	Description	OVN Reading
1	ctr btm @ 7-ft	non-detect
2		
3		
4		
5		
6		
7		
8		
9		
10		

**Comments:**

Sample was from the center bottom @ 7-ft. Soil was brown sandy loam. No hydrocarbon staining or odor was noticed.

**Site Diagram:**

Not to Scale



# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

September 12, 2003

Mr. Frank McDonald  
B.E.S.T.  
5101 North College Blvd.  
Suite 5046  
Farmington, NM 87402

Phone: (505) 566-3703

Client No.: 02023-001

Dear Mr. McDonald,

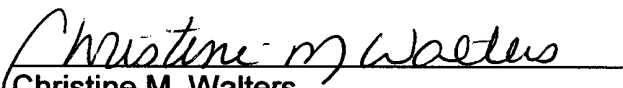
Enclosed are the analytical results for the samples collected from the location designated as "Chittum Penestaza #1". Two soil samples were collected by B.E.S.T designated personnel on 9/05/03, and received by the Envirotech laboratory on 9/05/03 for Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015 analysis.

The samples were documented on Envirotech Chain of Custody No. 11296 and were assigned Laboratory No. 26522 (Pit #1 @ Ctr @ 7 ft) and 26523 (Pit #2 @ Ctr @ 7 ft) for tracking purposes.

The samples were analyzed on 9/09/03 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,  
**Envirotech, Inc.**

  
Christine M. Walters  
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/BEST.wpd

EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

Client:	B.E.S.T. LLC	Project #:	02023-001
Sample ID:	Pit #1 @ Ctr @ 7-ft	Date Reported:	09-09-03
Laboratory Number:	26522	Date Sampled:	09-05-03
Chain of Custody No:	11296	Date Received:	09-05-03
Sample Matrix:	Soil	Date Extracted:	09-05-03
Preservative:	Cool	Date Analyzed:	09-09-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

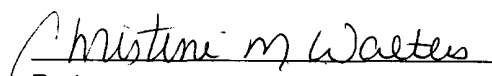
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chittum Penestaza #1.

  
Analyst

  
Review

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Address: 123 W. First St., Ste.505 Casper, WY 82601

Facility Or: Chittum-Penistaja #1  
Well Name

Location: Unit or Qtr/Qtr Sec P Sec 36 T 20N R 5W County McKinnley

Pit Type: Separator            Dehydrator            Other Abandoned Lined Pit

Land Type: BLM           , State X, Fee            Other           

Pit Location: Pit dimmensions: length 10', width 10', depth 4'  
(Attach diagram)

Reference: wellhead X, other           

Footage from reference: 50'

Direction from reference: 75 Degrees            East North             
of  
X West South X

Depth To Ground Water	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) <u>0</u>
high water elevation of		
ground water.)		

Wellhead Protection Area:	Yes	(20 points)
(Less than 200 feet from a private	No	( 0 points) <u>0</u>
domestic water source, or; less than		
1000 feet from all other water sources.)		

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) <u>0</u>
irrigation canals and ditches.)		

RANKING SCORE (TOTAL POINTS): 0 pts.

Date Remediation Started: 9/5/03 Date completed: 9/5/03

Remediation Method: Excavation \_\_\_\_\_ Approx. cubic yards \_\_\_\_\_  
(Check all appropriate sections.) Landfarmed \_\_\_\_\_ Insitu Bioremediation \_\_\_\_\_  
Other \_\_\_\_\_

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

General Description of Remedial Action: \_\_\_\_\_

A soil sample was extracted at 7-ft below ground level (4-ft. below pit bottom). The sample was analyzed for GRO/DRO analysis. All analyses were within BLM and NMOCD requirements.

Ground Water Encountered: No X Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit: Sample location Center of pit, 7-ft below surface level (4-ft. below pit bottom)  
Closure Sampling: \_\_\_\_\_  
(if multiple samples, attach sample results and diagram of sample locations and depths)  
Sample depth 4-ft. below pit bottom  
Sample Date 9/5/03 Sample time 8:00

Sample Results

Benzene(ppm) N/A

Total BTEX(ppm) N/A

Field headspace(ppm) Non-Detect

TPH Non-Detect

Ground Water 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 9/17/03

Signature 

Printed Name Frank McDonald  
and Title Senior Environmental Specialist

**Location:** Chittum-Penistaja # 1  
**Footages:** 990' FSL & 990' FEL  
**Unit Letter:** P **Sec.** 36 **Twn.** 20N **Rng** 5W  
**Latitude:** **Longitude:**  
**Lease Num.** **Land Type:** NM State

**Pit Type:** Abandoned lined

**Pit Reference**

**Reference:** Wellhead Marker **Footage:** 50-ft  
**Direction:** N or S 75 Degrees E or W  
**Initial size:** 10' x 10' x 4' deep  
**Final Size:** 10' x 10' x 4' deep  
**Total Cubic Yards:** 0

**Distances from (ft):**

**Groundwater:** >100-ft  
**Wellhead Protection Area:** >1000-ft  
**Nearest Surface Water:** >1000-ft  
**Distance to ephemeral stream:** N/A

(Navajo/Jicarilla only)

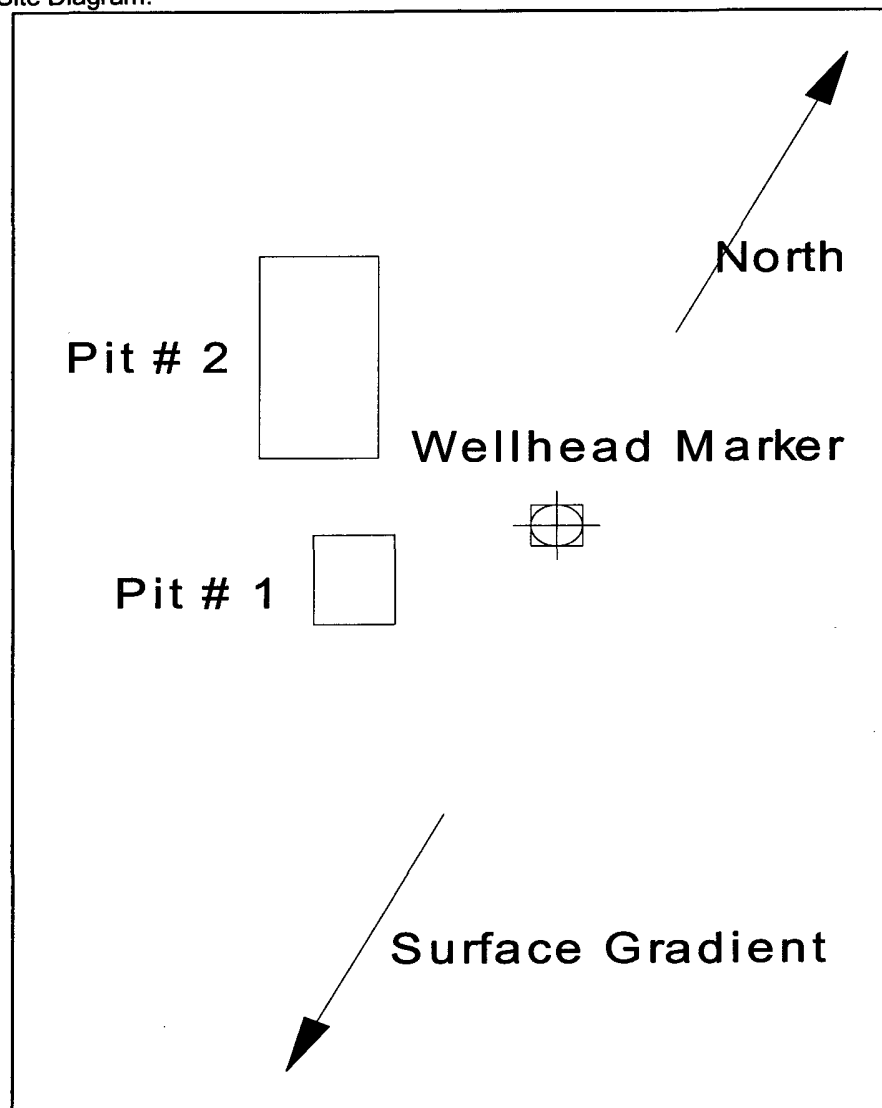
**Ranking Score (points):** 0

Sample ID	Description	OVM Reading
1	ctr btm @ 7-ft	non-detect
2		
3		
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6		
7		
8		
9		
10		

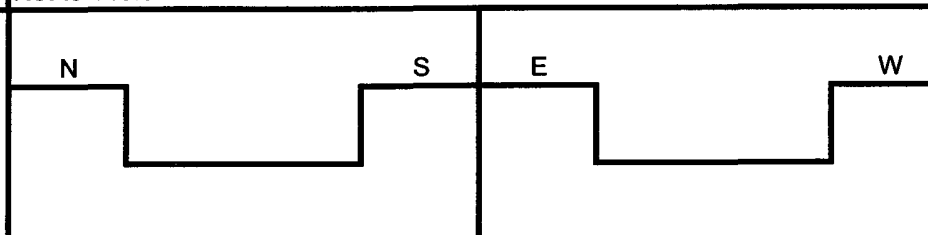
**Comments:**

Pit was lined. Liner was moved aside and sample was from the center bottom @ 7-ft. Bedrock was encountered @ 7-ft below surface. Soil was brown sandy loam. No hydrocarbon staining or odor was noticed.

**Site Diagram:**



Not to Scale





EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

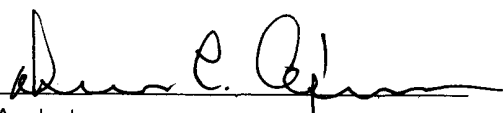
Client:	B.E.S.T. LLC	Project #:	02023-001
Sample ID:	Pit #2 @ Ctr @ 7-ft	Date Reported:	09-09-03
Laboratory Number:	26523	Date Sampled:	09-05-03
Chain of Custody No:	11296	Date Received:	09-05-03
Sample Matrix:	Soil	Date Extracted:	09-05-03
Preservative:	Cool	Date Analyzed:	09-09-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

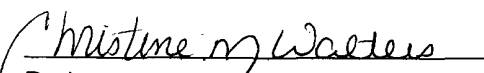
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Chittum Penestaza #1.**

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

11296

Client / Project Name <b>B.E.S.T., LLC</b>			Project Location <b>Chittom Penstaza #1</b>		ANALYSIS / PARAMETERS								
Sampler: <b>F. McDonald</b>			Client No. <b>02023-001</b>		No. of Containers <b>1</b>	<b>X</b>						Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix									
<b>Pit #1 @</b>	<b>9/5/03</b>	<b>7:30</b>	<b>26523</b>	<b>Soil</b>	<b>1</b>	<b>X</b>							
<b>Ch @ 7-Pe</b>													
<b>Pit #2 @</b>	<b>9/5/03</b>	<b>8:00</b>	<b>26523</b>	<b>Soil</b>	<b>1</b>	<b>X</b>							
<b>Ch @ 7-Pe</b>													
Relinquished by: (Signature) <b>[Signature]</b>			Date <b>9/5/03</b>	Time <b>12:12</b>	Received by: (Signature) <b>[Signature]</b>						Date <b>9/5/03</b>	Time <b>12:12</b>	
Relinquished by: (Signature)					Received by: (Signature)								
Relinquished by: (Signature)					Received by: (Signature)								
<b>ENVIROTECH INC.</b> 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615										Sample Receipt			
											Y	N	N/A
										Received Intact	<input checked="" type="checkbox"/>		
										Cool - Ice/Blue Ice	<input checked="" type="checkbox"/>		