

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

Submit 1 copy to
appropriate
District Office
and 1 copy to
the Santa Fe Office

(Revised 3/9/94)



PIT REMEDIATION AND CLOSURE REPORT

30-039-23604

Operator: Chaparral Energy Telephone: (405) 478-8270

Address: 701 Cedar Lake Blvd, Oklahoma City, Oklahoma 73114

Facility Or: Oso Canyon C-1

Well Name

Location: Unit or Qtr/Qtr Sec "F" Sec 13 T 24 N R 2 W County Rio Arriba

Pit Type: Separator X Dehydrator Other

Land Type: BLM , State , Fee X Other

Pit Location: Pit dimensions: length 15-ft, width 15-ft, depth 3-ft
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 78

Direction from reference: 85 Degrees X East North X
of
 West South

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

Date Remediation Started: June 6,2003 Date completed: June 6,2003

Remediation Method: Excavation _____ Approx. cubic yards 0
(Check all appropriate sections.) Landfarmed N/A Insitu Bioremediation N/A

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 6-feet below ground level (3-ft below Pit bottom). The sample was analyzed for GRO/DRO and BTEX analysis. All analisis were within BLM and NMOCD requirements

Ground Water Encountered: No X Yes _____ Depth _____

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

Sample location Cenetr of pit 6-feet below surface level (3-feet below pit bottom)

Sample depth 6-feet

Sample Date 6/6/03 Sample time 11:46

Sample Results

Benzene(ppm) ND

Total BTEX(ppm) 0.550

Field headspace(ppm) 248

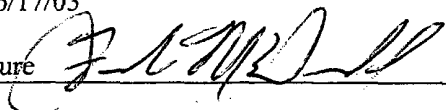
TPH 304 ppm

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 6/17/03

Signature



Printed Name Frank McDonald
and Title Sr. Environmental Specialist

Location: Oso Canyon C-1
Footages: 1650' FNL & 1650' FWL
Unit Letter: F **Sec.** 13 **Twn.** 24N **Rng** 2W
Latitude: **Longitude:**
Lease Num. NM-40636 **Land Type:** Fee Surface

Pit Type: Separator

Pit Reference

Reference: From wellhead **Footage:** Approx. 78-ft
Direction: N or S 85 Degrees E or W
Initial size: 15' x 15' x 3' deep
Final Size: 15' x 15' x 3' deep
Total Cubic Yards: 0

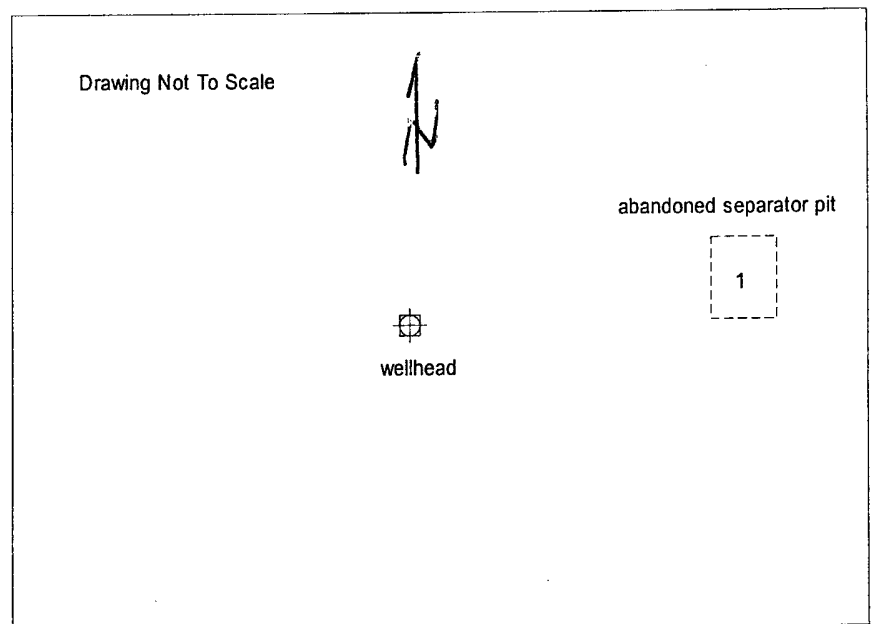
Distances from (ft):

Groundwater: >100 ft
Wellhead Protection Area: No
Nearest Surface Water: >1000 ft
Distance to ephemeral stream:
(Navajo/Jicarilla only)

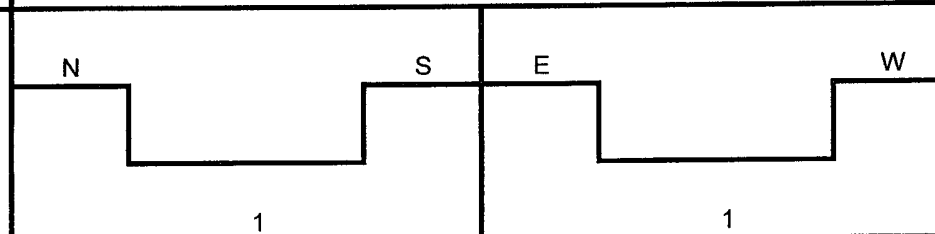
Ranking Score (points): 0

Sample ID	Description	OVM Reading
1	center pit @ 6-ft	248 ppm
2		
3		
4		
5		
6		
7		
8		
9		
10		

Comments: Soil is light brown, silty clay. No hydrocarbon odor or staining

Site Diagram:

Not to Scale



ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

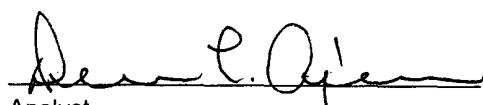
Client:	B.E.S.T, LLC.	Project #:	02023-001
Sample ID:	Ctr Pit @ 6 ft	Date Reported:	06-10-03
Laboratory Number:	25825	Date Sampled:	06-06-03
Chain of Custody No:	10987	Date Received:	06-09-03
Sample Matrix:	Soil	Date Extracted:	06-09-03
Preservative:	Cool	Date Analyzed:	06-10-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH


Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	36.8	0.2
Diesel Range (C10 - C28)	267	0.1
Total Petroleum Hydrocarbons	304	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: Chaparral Oso Canyon C - 1.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	B.E.S.T., LLC	Project #:	02023-001
Sample ID:	Ctr Pit @ 6 ft	Date Reported:	06-10-03
Laboratory Number:	25825	Date Sampled:	06-06-03
Chain of Custody:	10987	Date Received:	06-09-03
Sample Matrix:	Soil	Date Analyzed:	06-10-03
Preservative:	Cool	Date Extracted:	06-09-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	72.2	1.5
p,m-Xylene	377	2.2
o-Xylene	101	1.0
Total BTEX	550	

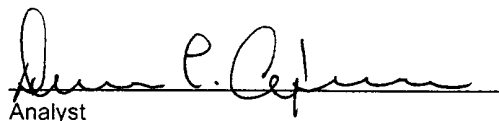
ND - Parameter not detected at the stated detection limit.

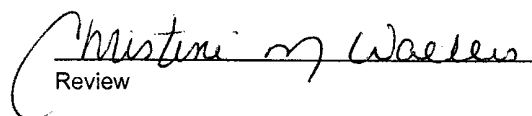
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	95 %
	1,4-difluorobenzene	95 %
	Bromochlorobenzene	95 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chaparral Oso Canyon C - 1.


Analyst


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