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310

REPORTS

DATE:

2000

CHUZA OPERATING

REMEDIATION STATUS REPORT

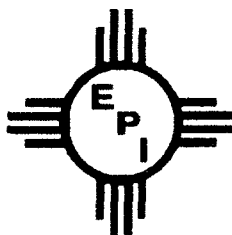
GINSBURG FEDERAL #5

Unit Letter D, NW¼ NW¼ Sec31, T25S, R38E,
~7 miles east of Jal
Lea County, New Mexico

May 31, 2001

Prepared by

Environmental Plus, Inc.
1324 North Main Street
P.O. Box 1558
Eunice, New Mexico 88231
Tele 505•394•3481 FAX 505•394•2601



CONTRACT #:

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
00 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-141
Revised March 17, 1999

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company <i>CHUZA OPERATING</i>	Contact <i>William K. Dean</i>	
Address <i>P.O. Box 51010 Midland TX 79702</i>	Telephone No.	
Facility Name <i>Ginsburg Federal #5</i>	Facility Type <i>Flow line</i>	
Surface Owner <i>ARCO Permian</i>	Mineral Owner <i>Federal</i>	Lease No.

LOCATION OF RELEASE

Unit Letter <i>D</i>	Section <i>31</i>	Township <i>25S</i>	Range <i>38E</i>	Feet from the <i>NW 4 NW 4</i>	North/South Line	Feet from the	East/West Line	County <i>LEA</i>
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NATURE OF RELEASE

Type of Release <i>Production Fluid (oil + water)</i>	Volume of Release <i>< 5 bbls</i>	Volume Recovered <i>0</i>
Source of Release <i>Flowline</i>	Date and Hour of Occurrence <i>March 22, 2000</i>	Date and Hour of Discovery <i>March 22, 2000</i>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? <i>Buddy Hill</i> <i>Donna Williams (at location)</i>	
Whom?	Date and Hour <i>June 27, 2000</i>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Flowline ruptured. Repaired line. No fluid present on land surface.

Sampled on 7:6:00 to determine vertical extent of TPH, BTEX, & Chloride

Describe Area Affected and Cleanup Action Taken.*

Spill Dimension: ~50' wide tapering down 2'. Extends ~500 SW.

72 yds of bovine manure was raked into the surface of the impacted area.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: <i>William K. Dean by [Signature]</i>	Approved by District Supervisor:	
Printed Name: <i>William K. Dean</i>	Approval Date:	Expiration Date:
Title: <i>Lease Operator</i>	Conditions of Approval:	
Date: <i>July 11, 2000</i> Phone: <i>39631-5010</i>	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

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1.0 INTRODUCTION

On March 22, 2000, the Chuza Ginsburg Federal #5 oil well flow line ruptured and released approximately 5 barrels of production fluid, i.e., a mixture of saline water and crude oil, approximately 90% and 10%, respectively. The affected surface area extended approximately 500' southwest of the rupture tapering from approximately 50' to 2' in width. The surface at this site tilts slightly to the southwest. It was reported that a rain event occurred simultaneously with the release that caused the crude oil component to be washed down gradient and exaggerated the magnitude of the surface area of the spill. The site was characterized, the report submitted to the New Mexico Oil Conservation Division (NMOCD). The selected remediation strategy was to disk bovine manure into the affected surface area and monitor progress until closure thresholds were attained. This status report provides the analytical results from the May 12, 2001 sampling of the site and discusses remediation progress. The initial investigation determined that the only remedial action threshold exceeded was the 1000 mg/Kg Total Petroleum Hydrocarbon (TPH-EPA method 8015M) in the 0-1' below ground surface (bgs) interval, therefore, only the 0-1' bgs interval is being monitored.

2.0 REMEDIATION PROGRESS

Samples were obtained from the same general sample locations as during the 12-19-00 sampling event. The original analytical reports from the 5-12-01 sampling event are included as Attachment I and summarized below along with previous data.

		East Composite		
		7/6/2000	12/19/2000	5/12/2001
GRO ¹	mg/Kg	50	50	50
DRO ²	mg/Kg	15300	2620	12800
GRO+DRO	mg/Kg	15350	2670	12850
BTEX ³	mg/Kg	0.03	0.03	0.084
Benzene	mg/Kg	0.005	0.005	0.005
Toluene	mg/Kg	0.005	0.005	0.02
Ethyl Benzene	mg/Kg	0.005	0.005	0.01
Total Xylene	mg/Kg	0.015	0.015	0.049

		Middle Composite		
		7/6/2000	12/19/2000	5/12/2001
GRO	mg/Kg	50	50	na
DRO	mg/Kg	15300	2610	na
GRO+DRO	mg/Kg	15350	2660	na
BTEX	mg/Kg	0.03	na	na
Benzene	mg/Kg	0.005	na	na
Toluene	mg/Kg	0.005	na	na
Ethyl Benzene	mg/Kg	0.005	na	na
Total Xylene	mg/Kg	0.015	na	na

		West Composite		
		7/6/2000	12/19/2000	5/12/2001
GRO	mg/Kg	50	50	50
DRO	mg/Kg	15300	1620	2710
GRO+DRO	mg/Kg	15350	1670	2760
BTEX	mg/Kg	0.03	0.03	0.116
Benzene	mg/Kg	0.005	0.005	0.005
Toluene	mg/Kg	0.005	0.005	0.017
Ethyl Benzene	mg/Kg	0.005	0.005	0.014
Total Xylene	mg/Kg	0.015	0.015	0.08

¹GRO – Gasoline Range Organics

²DRO – Diesel Range Organics

³TPH – Total Petroleum Hydrocarbon (GRO+DRO)

3.0 DISCUSSION

The data indicates that the remediation strategy of mixing bovine manure with the hydrocarbon contaminated soil was initially effective in reducing TPH concentrations. Chloride concentrations are declining in the near surface, probably due to dispersion and leaching into the subsurface. The increase TPH level indicated in the east composite area is probably due to random sampling variation but nevertheless needs to be addressed.

4.0 CONCLUSION

Given that the site has not remediated to below the NMOCD guideline remedial goal for TPH, i.e., <1000 mg/Kg, the NMOCD will be asked to extend the time necessary to achieve the remediation goals to March 2002. During the interim, the site will be monitored and tilled as necessary to promote natural attenuation of the hydrocarbon.

Attachment I: Analytical Reports and Summary



ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: PAT McCASLAND

P.O. BOX 1558

EUNICE, NM 88231

FAX TO: (505) 394-2601

Receiving Date: 05/17/01

Reporting Date: 05/21/01

Project Owner: CHUZA

Project Name: GINSBURG FEDERAL #5

Project Location: ULD NW/4 NW/4 S31, T25S, R38E

Sampling Date: 05/12/01

Sample Type: SOIL

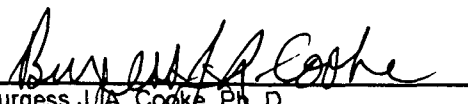
Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		05/18/01	05/18/01	05/17/01	05/17/01	05/17/01	05/17/01
H5876-1	S51201GF5EC	<50	12800	<0.005	0.020	0.010	0.049
H5876-2	S51201GF5WC	<50	2710	<0.005	0.017	0.014	0.080
Quality Control		926	1052	0.104	0.108	0.101	0.285
True Value QC		1000	1000	0.100	0.100	0.100	0.300
% Recovery		92.6	105	104	108	101	95.1
Relative Percent Difference		0.5	7.4	0.5	5.4	1.0	0.6

METHODS: TPH GRO & DRO - EPASW-846 8015 M; BTEX - SW-846 8260.


Burgess J. A. Cooke, Ph. D.

5/21/01
Date

H5876.XLS

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