# CHUZA OPERATING

# REMEDIATION STATUS AND CLOSURE DOCUMENTATION

## GINSBURG FEDERAL #5

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

December 8, 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



Muza - 4452 Inudent - nPAC0606851859 Application pPAC060852078

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December 10, 2001

Mr. Paul Sheeley, Environmental Engineer Energy Minerals and Natural Resources Department Oil Conservation Division Environmental Bureau 1625 North French Hobbs, New Mexico 88240

Subject: Chuza Operating Ginsburg Federal #5 Final C-141 and closure documentation

Dear Mr. Sheeley,

Environmental Plus, Inc. (EPI), on behalf of Mr. Jim Chandler, Chuza Operating, Midland, Texas submits the attached Final C-141 and Closure documentation for your consideration, requesting closure of the site. The report documents remediation and monitoring of the site consistent with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks and Spills, August 1993 and also provides a conservative closure justification even though the TPH<sup>8015m</sup> levels are slightly elevated above the NMOCD remedial goals.

Please direct all official communications to:

Chuza Operating Mr. Jim Chandler P.O. Box 51010 Midland, Texas 79702

If there are any questions please call Mr. Ben Miller or myself at the office or at 505.390.0288 and 505.390.7864, respectively.

Sincerely,

Pat McCasland

Pat McCasland EPI Technical Services Manager

cc: Jim Chandler, Chuza Operating Ben Miller, EPI Vice President and General Manager Sherry Miller, EPI President file



March 29, 2002

Chuza Operating Jim Chandler P.O. Box 310 Roswell, New Mexico 88201

Re: Chuza Operating Closure Documentation UL D-Sec 31-T25S-R38E Ginsberg Federal Well No. 5

Dear Mr. Chandler:

The New Mexico Oil Conservation Division (OCD) has received the final closure plan proposal submitted by Environmental Plus, Inc., (EPI) for Chuza Operating dated December 10, 2001. OCD hereby denies your closure plan proposal at this time. TPH and chloride concentrations measured at the last sampling in December 2001 are above OCD remedial goals for the ranking of the site.

Chuza Operating must continue monitoring the site and, if required, implement further remediation to achieve analyte concentration levels required by the Guidelines.

For guidance in this matter see <u>Guidelines for Remediation of Leaks</u>, Spills and Releases, August 13, 1993, on the OCD website:

www.emnrd.state.nm.us/ocd/bureaus/environemntal/review/spill1.doc

If you have any questions or need any assistance please feel free to contact me at (505) 393-6161 x113 or email psheeeley@state.nm.us

Sincerely,

Paul Sheeley Environmental Engineer cc: Roger Anderson-Environmental Bureau Chief Chris Williams-District I Supervisor Bill Olson- OCD Hydrologist Larry Johnson - Environmental Engineer Pat McCasland - EPI

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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 report discusses remediation status and provides the analytical results from the May 12 and December 4, 2001 sampling of the site. The initial investigation determined that the only NMOCD remedial action threshold exceeded was the 1000 mg/Kg Total Petroleum Hydrocarbon EPA method 8015M (TPH<sup>8015m</sup>) in the 0-1' below ground surface (bgs) interval, therefore, only the 0-1' bgs interval was monitored. Based on the most recent monitoring data, there is justification for site closure even though the THP<sup>8015m</sup> levels exceed the 1000 mg/Kg NMOCD remedial goal.

#### 2.0 SITE RANK

The NMOCD ranking process scores a site based on depth to ground water and nearness to water wells or surface water bodies.

#### 2.1 Area Ground Water Levels

According to The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and Ground-Water Conditions in Southern Lea County, New Mexico," A. Nicholson and A Clebsch, 1961, and the New Mexico State Engineers Office, the uppermost aquifer occurs in the area between approximately 51.48? and 70.91' below ground surface (bgs). The Ogallala Formation is at its' southern most extent and forms a continuous aquifer in this area with the Quaternary Alluvium. Further review of data from the New Mexico Tech website, <u>http://geoinfo.nmt.edu/.esrimap</u> corroborates this data. The wells are plotted on the topographical map in Attachment I.

#### 2.2 Water Well Inventory

The New Mexico State Engineers Office in Roswell, New Mexico has the following wells recorded for sections 29 and 31 in T25S R38E. The New Mexico Tech supplemental information is provided on the topographical map include in Attachment I.

Township	Range	Section	Detail Code <sup>1</sup>	Measurement Date	Feet bgs (below ground surface)
258	38E	29	13344	1953	69.84
25S	38E	29	21411	1996	51.48
25S	38E	31	13331	1996	70.91
<sup>1</sup> 1=NW quarter secti 2=NE quarter sectio 3=SW quarter section 4=SE quarter section	n n		S - A	he site was being pumpe nearby site that taps t he site had been pumped	he same aquifer was being pumped.

Based on this information, the ground water level at this site is conservatively estimated to occur at or below 61.2' bgs or approximately 61' bgs, the average of 70.91' and 51.48'.

## 2.3 Depth to Ground Water Calculation

The NMOCD requires the site be ranked to determine which soil remedial goals will apply and defines depth to ground water as, "the vertical distance from the lowermost contaminants to the seasonal high water elevation of the ground water." The uppermost occurrence of ground water is conservatively estimated to be 61' bgs. The vertical extent of crude oil contamination is restricted to the upper foot of soil and thus the calculated NMOCD depth to ground is 60' bgs.

### 2.3.1.1 Ground Water Gradient

According to the USGS (Nicholson & Clebsch), the Quaternary Alluvium and Ogallala formations form a continuous aquifer with the flow gradient to the southeast.

### 2.4 Wellhead Protection Area

The listed water wells are greater than 1,000 feet from the site.

### 2.5 Distance to Nearest Surface Water Body

There are no naturally occurring surface water bodies located within a 1,000-foot radius of the site.

### 2.6 Site Ranking Matrix

The ranking score is 10 with the following NMOCD remedial goals.

1. Gr	ound Water	2. Wellhead Protection Area	3. Distance to Surface Water Body				
If Depth to G	W <50 feet: 20 points	If <1000' from water source, or;<200'	<200 horizontal feet: 20 points				
If Depth to Gy points	W 50 to 99 feet: 10	from private domestic water source: 20 points	200-100 horizontal feet: 10 points				
If Depth to G	W >100 feet: 0 points	If >1000' from water source, or; >200'from private domestic water source: 0points					
Ground water Sc	ore = 10	Wellhead Protection Area Score= 0 Surface Water Score= 0					
Site Rank (1	+2+3) = 10+0+0	= 20 points					
Parameter	T	otal Site Ranking Score and Acceptable Concentrations					
1 4141110101	>19	10-19	0-9				
Benzene <sup>1</sup>	10 ppm	10 ррт	10 ppm				
BTEX <sup>1</sup>	50 ppm	50 ppm	50 ppm				
TPH	100 ppm	<b>1000 ppm</b> 5000 ppm					
1100 ppm field	VOC headspace meas	urement may be substituted for lab analysi	s				

#### 3.0 REMEDIATION AND MONITORING

Samples were obtained from the same general sample locations as during the 12-19-00 sampling event. The original analytical reports from the 7-6-00, 12-19-00, 5-12-01 and 12-04-01 sampling events are included as Attachment II and summarized below.

		East Surfa	ce Composite 0-1'bg	zs	
	:	7/6/2000	12/19/2000	5/12/2001	12/04/2001
GRO <sup>1</sup>	mg/Kg	50	50	50	50
DRO <sup>2</sup>	mg/Kg	15300	2620	12800	1950
GRO+DRO	mg/Kg	15350	2670	12850	2000
BTEX <sup>3</sup>	mg/Kg	0.03	na	0.084	na
Benzene	mg/Kg	0.005	na	0.005	na
Toluene	mg/Kģ	0.005	na	0.020	na
Ethyl Benzene	mg/Kg	0.005	na	0.010	na
Total Xylene	mg/Kg	0.015	na	0.049	na
Chloride	mg/Kg	9120	2236	na	na
		Middle Sur	face Composite 0-1'	bgs	
		7/6/2000	12/19/2000	5/12/2001	12/04/2001
GRO	mg/Kg	50	50	na	na
DRO	mg/Kg	15300	2610	na	na
GRO+DRO	mg/Kg	15350	2660	na	na
BTEX	mg/Kg	0.03	na	na	na
Benzene	mg/Kg	0.005	na	na	na
Toluene	mg/Kg	0.005	na	na	na
Ethyl Benzene	mg/Kg	0.005	na	na	na
Total Xylene	mg/Kg	0.015	na	na	na
Chloride	mg/Kg	9120	5217	na	na
	:	West Surfa	ace Composite 0-1'b	gs	
		7/6/2000	12/19/2000	5/12/2001	12/04/2001
GRO	mg/Kg	50	50	50	50
DRO	mg/Kg	15300	1620	2710	2490
GRO+DRO	mg/Kg	15350	1670	2760	2540
BTEX	mg/Kg	0.03	na	0.116	na
Benzene	mg/Kg	0.005	na	0.005	na
Toluene	mg/Kg	0.005	na	0.017	na
Ethyl Benzene	mg/Kg	0.005	na	0.014	na
Total Xylene	mg/Kg	0.015	na	0.080	na
Chloride	mg/Kg	9120	4265	Na	na
<sup>1</sup> CPO Casalina P	ance Ormanics				

<sup>1</sup>GRO – Gasoline Range Organics

<sup>2</sup>DRO – Diesel Range Organics

<sup>3</sup>TPH – Total Petroleum Hydrocarbon (GRO+DRO)

#### 4.0 DISCUSSION

Please note, that initially the site was divided into two sampling transects but was increased to three for the 12-19-00 event and reduced to two again in May and December 2001 because of the moderate size of the site and to reduce analytical expense. Additionally, monitoring of Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) achieved compliance with the NMOCD remedial goals during the 5-12-01 event and were not monitored during the 12-4-01 event. The 12-19-00 data indicated that the remediation strategy of mixing bovine manure with the hydrocarbon contaminated soil was being effective in reducing TPH<sup>8015m</sup> concentrations but had not reached acceptable levels, however, the 5-12-01 data had increased, probably due to random sampling variation. Subsequent to the 5-12-01 sampling event, the site was disked and blended to aerate and promote attenuation. Monitoring samples from 12-4-01 show that the processes have been effective

> GINSBURG FEDERAL #5 REMEDIATION STATUS & CLOSURE REQUEST DECEMBER 8, 2001

in reducing the TPH<sup>8015m</sup> levels to near the NMOCD remedial guideline of 1000 mg/Kg. Initial sampling of the chloride source term showed a decreasing gradient from the surface to 4'bgs, i.e., 9120 mg/Kg to 448 mg/Kg, respectively. Surface chloride data from the 12-19-00 event indicate the chloride source term is dispersing. The initial site investigation also established acceptable TPH<sup>8015m</sup> levels in the subsurface at the 2' and 4'bgs intervals, i.e., east 2'=621 mg/Kg, east 4'=116.4 mg/Kg and west 2'=672 mg/Kg, west 4'=139.3 mg/Kg and were not monitored in subsequent events.

#### 5.0 CONCLUSION

Remediation at the site has been effective. The highly mobile BTEX compounds and the Gasoline Range Organic (GRO) components of the TPH<sup>8015m</sup> are nominal. However, the less mobile Diesel Range Organic (DRO) components of the TPH <sup>8015m</sup> source term remain elevated above the NMOCD guideline remedial goal, i.e., <1000 mg/Kg, but only nominally. Given that the annual precipitation for the area is between 7" and 12" per year, it is not tenable that the surficial TPH<sup>8015m</sup> residue will impact local ground water above the Water Quality Control Commission ground water standards for the BTEX compounds or free product. It is therefore concluded that this site presents no future environmental hazards and should be granted closure. Upon receipt of closure the site will be reseeded and restored to agricultural productivity.

Attachment I: Figures and Maps



Attachment II: Analytical Reports and Summary

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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: 07/11/00 Reporting Date: 07/12/00 Project Number: 7500 Project Name: GINSBURG FEDERAL #5 Project Location: UNIT D NW 1/4 NW 1/4 S31 T25S R38E Sampling Date: 07/05 & 07/06/00 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/AH

		GRO	DRO	
		(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	Cí*
LAB NUMBE	ER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS	DATE	07/11/00	07/11/00	07/11/00
H4989-1	S7600CGF5S	<50	15300	9120
H4989-2	S7500CGF5W2	<50	622	528
H4989-3	S7500CGF5E2	<50	571	3200
H4989-4	S7500CGF5W4	<50	89.3	448
H4989-5	S7500CGF5E4	<50	66.4	128
Quality Cont	trol	938	986	1000
True Value		1000	1000	1000
% Recovery	· · · · · · · · · · · · · · · · · · ·	93.8	98.6	100
Relative Per	rcent Difference	2.4	7.1	1.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB \*Analyses performed on 1:4 w:v aqueous extracts.

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PLEASE HORE Subject and the second state of services here under by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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Receiving Date: 07/11/00 Reporting Date: 07/13/00 Project Number: 7500 Project Name: GINSBURG FEDERAL #5 Project Location: UNIT D NW 1/4 NW 1/4 S31 T25S R38E Sampling Date: 07/05 & 07/06/00 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC

		BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
LAB NO.	SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS I	DATE	07/12/00	07/12/00	07/12/00	07/12/00
H4989-1	S7600CGF5S	<0.005	<0.005	<0.005	<0.015
			1		
Quality Cont	trol	0.092	0.099	0.098	0.294
True Value	20	0.100	0.100	0.100	0.300
% Recovery	,	91.9	98.6	98.3	98.1
<b>Relative Per</b>	rcent Difference	3.4	3.5	7.6	5.8

METHOD: EPA SW-846 8260

Jestf Cooke

13/00 Date

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Project Manager:	d		BILLTO	0 Po#:		
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CITY: EUNISS	State: <i>(JM</i> Zip:	81231	Attn:		.   01	
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ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: PAT McCASLAND P.O. BOX1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 12/19/00 Reporting Date: 12/20/00 Project Number: 2500 Project Name: GINSBURG FEDERAL #5 Project Location: UNIT D NW1/4 NW1/4 S31,T25S,R38E Sampling Date: 12/19/00 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: GP Analyzed By: BC/AH

		GRO	DRO	
		(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	Cl*
H5454-2 S121900GF5SM		(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS	DATE	12/19/00	12/19/00	12/20/00
H5454-1	S121900GF5SE	<50	2620	2236
H5454-2	S121900GF5SM	<50	2610	5217
H5454-3	S121900GF5SW	<50	1620	4265
Quality Con	trol	744	773	932
True Value	QC	800	800	1000
% Recovery	1	93.0	96.6	93.2
<b>Relative Pe</b>	rcent Difference	5.7	6.1	6.7

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB \*Analyses performed on 1:4 w:v aqueous extracts.

Burcess A Code

#### H5454.XLS

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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

		GRO	DRO			ETHYL	TOTAL
LAB NUMB	ER SAMPLE ID	(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(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	\$51201GF5WC	<50	2710	<0.005	0.017	0.014	0.080
Quality Con	trol	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
<b>Relative</b> Per	cent 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.

61

Date

H5876.XLS

PLEASE NOTE: Liability and Damagas. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

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**NNA** 

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

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

ANALYTICAL RESULTS FOR ENVIRONMNETAL PLUS, INC. ATTN: PAT McCASLAND P.O. BOX 1558 **EUNICE, NM 88231** FAX TO: (505) 394-2601

GRO

 $(C_{0} - C_{10})$ 

(mg/Kg)

Receiving Date: 12/04/01 Reporting Date: 12/05/01 Project Owner: CHUZA OPERATING/JIM CHANDLER Project Name: CHUZA GINSBERG FEDERAL #5 Project Location: UL-D SEC31 T25S R38E

Sampling Date: 12/04/01 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: BC

DRO

(>C10-C28)

(mg/Kg)

#### LAB NUMBER SAMPLE ID

ANALYSIS	DATE:	12/05/01	12/05/01
H6320-1	S12402CGF5EC	<50	1950
H6320-2	S12402CGF5WC	<50	2490
	······		
<b>Quality Cor</b>	itrot	792	821
True Value	QC	800	800
% Recover	l	99.0	103
<b>Relative Pe</b>	rcant Difference	11.5	2.7

METHOD: SW-846 8015 M

La Code

>/O Date

medy for any claim anising, whether based in contract or tort, shell be limited to the amount paio by Grows ro-co-nemed waived unless made in unling and received by Cardinal within thinty (30) days after completion of the app annual method, without Unitation, business interruptions, loss of use, or loss of profits incurred by client, its subsid al be ( no event shell G al or con isi dam IAA OF SUCC

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## Attachment III Photographs

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**Attachment IV: Site Information and Metrics Form** 

Site Information and Metrics										
SITE: Ginsburg Federal #5		Assigned Site Reference #:								
Company: CHUZA Operating		Assigned bite Reference #.	· · · · · · · · · · · · · · · · · · ·							
Company Street Address:			· • • • • • • • • • • • • • • • • • • •							
Company Mailing Address: P.O. Box 5101	0									
Company City, State, Zip: Midland, Texas	/9/02	<u> </u>								
Company Representative: Jim Chandler	200 20	40								
Company Representative Telephone: 505.	590.52	48	······································							
Company Telephone: Fax:										
Fluid volume released (bbls) = 5 bbls none			144							
		verbally within 24 hrs and submit form C-								
		to unauthorized releases >500 mcf Natura								
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)										
Leak, Spill, or Pit (LSP) Name: CHUZA (		ng Ginsburg Federal #5								
Source of contamination: flow line ruptur			·							
Land Owner, i.e., BLM, ST, Fee, Other: A										
LSP Dimensions: affected area = $\sim 30^{\circ}$ NS	x 500'I	±₩	· · · · · · · · · · · · · · · · · · ·							
$LSP Area = \sim 15,000 \text{ ft}^2$										
Location of Reference Point (RP): Leak or		······································								
Location distance and direction from RP:	west	· · · · · · · · · · · · · · · · · · ·								
Latitude:										
Longitude:		· · · · · · · · · · · · · · · · · · ·								
Elevation above mean sea level: $\sim 3270$ and	nsl									
Feet from South Section Line										
Feet from West Section Line										
Location- Unit or $\frac{1}{4} = D$										
Location-Section = 31										
Location- Township = T25S										
Location-Range = R38E		······································								
			· · · · · · · · · · · · · · · · · · ·							
Surface water body within 1000 ' radius of	site: N	lone	· · · · · · · · · · · · · · · · · · ·							
Domestic water wells within 1000' radius of			· · · · · · · · · · · · · · · · · · ·							
Agricultural water wells within 1000' radiu	s of sit	e: None								
Agricultural water wells within 1000' radiu										
Public water supply wells within 1000' rad										
Public water supply wells within 1000' rad			· · · · · · · · · · · · · · · · · · ·							
Depth from land surface to ground water										
	<u>`</u>	<b>v</b>								
Depth of contamination (DC): TPH contamination at 1' bgs is 622 mg/Kg Depth to ground water (DG - DC = DtGW) 60' bgs										
Depth to ground water (DG - DC = DtGw) 60 bgs       1. Ground Water     2. Wellhead Protection Area     3. Distance to Surface Water Body										
If Depth to GW <50 feet: 20 points	IF <	1000' from water source, or;<200' from	S. Distance to Sufface water body <200 horizontal feet: 20 points							
If Depth to GW 50 to 99 feet: 10 points		ate domestic water source: 20 points	200 nonzontal feet: 20 points							
			1							
If Depth to GW >100 feet: 0 points If >1000' from water source, or; >200' from >1000 horizontal feet: 0 points										
In Depin to Own 100 rect. 0 points     private domestic water source: 0 points     1000 holizontal rect. 0 points       Ground water Score = 10     Wellbead Protection Area Score = 0     Surface Water Score = 0										
Site Rank $(1+2+3) = 10+0+0 = 10$ points										
	, 11									
Total Site Ranking Score and Acce	otable									
Parameter >19		10-19	0-9							
Benzene <sup>1</sup> 10 ppm		10 ppm	10 ppm							
BTEX <sup>1</sup> 50 ppm		50 ррт	50 ррт							
TPH         100 ppm		1000 ррт	5000 ррт							
<sup>1100</sup> ppm field VOC headspace measurem										

District II	of New Mexico ls and Natural Resources ervation Division South Pacheco 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												
		nitial Report I Final Report										
Name of Company	Contact											
CHUZA OPERATING	William K. Telephone No.	Dean										
Address P.O. Box 51010 Midland TX 79	5124390000											
Facility Name Cinsburg Federal #5 Facility Type Flow line												
Surface Owner ARCO Permian Mineral Owner	* Federal	Lease No.										
LOCATION OF RELEASE												
Unit Letter Section Township Range Feet from the North	South Line Feet from the East/W	/est Line County										
D 31 255 38E NW4 NW4	4	LEA										
NATURE OF RELEASE												
Type of Release	Volume of Release	Volume Recovered										
Production Fluid (oil + water.	) <5 bb/s	0										
Source of Release Flowline	Date and Hour of Occurrence	Date and Hour of Discovery March 22, 2000										
Was Immediate Notice Given?	If YES, To Whom? BLOON H	ill.										
Yes V No V Not Required	10-11-10 bit -1-1-10-10-	s (at location)										
Whom?	Date and Hour June 27, 2000 112 13 14 1576											
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.											
If a Watercourse was Impacted, Describe Fully.*		is DEC LED N										
		In hi Hobbs N										
		1000 AU										
Describe Cause of Problem and Remedial Action Taken.*	······································	150 150										
Describe Cause of Problem and Remedial Action Taken.* Flow line ruptured. Repaired line.	No fluid present on la	nd survey										
Sampled on 7.6.00 to determin	e vertical extent of	" TPH, BTEX, + Chloride										
Soil Dimension: ~50 wide tovering down 2. Extends ~ 500 SW												
12 yds of bovine manure was raked into the surface of the impacted area. See closure seport)												
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.												
		TION DIVISION										
Signature: William K. Dean by to Milaelf												
inted Name: William K. Dean	Approved by District Supervisor:											
Title: Lease Operator	Approval Date:	Expiration Date:										
Date: July 11, 2000 Phone: 39631-5010	Conditions of Approval:	Attached										

\* Attach Additional Sheets If Necessary