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

Actived (Revised 3/9/94)

# PIT REMEDIATION AND CLOSURE REPORT

Operator: Conoco		89111	4
Address: 30-045-	225-19	DEC	2002
Facility Or: Marron WN Fed #1A, Meter 8 Well Name	89822	M COA	2002 18. Day
Location: Unit or Qtr/Qtr Sec_E_Sec_2	7 T 27 R 8 County S	and da	2 State Char
Pit Type: Separator Dehydrator	X Other	<u>-</u>	<del></del>
Land Type: BLM X, State	, Fee Other	· · · · · ·	
Pit Location: Pit dimensions: length 17' (Attach diagram)		-	
	_, other		
Footage from reference:	120'		•
l <u> </u>			
Direction from reference:7	<u>Y4</u> Degrees <u>X</u> East North		<u> </u>
Direction from reference:7	C	of	h
Depth To Ground Water	West Less than 50 feet	of	(20 points)
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of	West	of Sout	h
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet to 99 feet	of Sout	(20 points) (10 points)
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of	Less than 50 feet 50 feet to 99 feet	Sout Yes	(20 points) (10 points)
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)  Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.)  Distance To Surface Water:	Less than 50 feet 50 feet to 99 feet Greater than 100 feet  Less than 200 feet	Sout Yes	(20 points) (10 points) ( 0 points)10_  (20 points) ( 0 points)0  (20 points)
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)  Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	Sout Yes	(20 points) (10 points) ( 0 points)10_  (20 points) ( 0 points)

	Date Remediation Starte	ed: 09/26/94 Date completed: 09/26/94
•	Remediation Method:	Excavation Approx. cubic yards
		Landfarmed Insitu Bioremediation  Other Backfill pit without excavation
	Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)	Onsite N/A Offsite N/A
	General Description of I	Remedial Action: 10 yds. fill
	Ground Water Encounte	ered: No X Yes Depth
	Final Pit: Closure Sampling: (if multiple samples,	Sample location _ Four walls and center of pit composite
	attach sample results and diagram of sample	Sample depth 5'
	locations and depths)	Sample Date09/26/94 Sample time11:45
		Sample Results
		Benzene(ppm) Not reported
		Total BTEX(ppm) Not reported
l		Field headspace(ppm) 144
	Ground Water Sample:	TPH 3910  Ves No. V. (If yes, ettech sample results)
		Yes No X (If yes, attach sample results)
Ì		nformation above is true and complete to the best of my knowledge and belief.
	Date 1/8/03	Printed Name Scott T. Pope and Title Senion EAN Scientist
	Signature Jour	and Title Sonion FAIN Scientist



## Marron WN Fed #1A Meter/Line ID 89822

SITE DETAILS

Legals - Twn: 27N **NMOCD Hazard Ranking: 10**  Rng: 8W

Sec: 27

Land Type: BLM

Pit Closure Date: 9/26/94

**Operator: Conoco** 

### 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 test pit was excavated to 5 feet (ft) below ground surface (bgs) where sandstone was encountered and a soil sample was collected for field headspace analysis and laboratory analysis for TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 144 ppm; laboratory analysis indicated a TPH concentration of 3,910 mg/kg. The headspace analysis and TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score of 10.

No soil was disposed of offsite. The pit was backfilled with site soil, topped with clean soil from the surrounding berms as well as 10 cubic yards of imported clean fill, and graded in a manner to direct surface runoff away from the pit area.

A Phase II boring was completed to 21 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 20-21 ft bgs. Headspace analysis indicated an organic vapor content of 10 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of <3 mg/kg, and a TPH concentration of <20 mg/kg. The benzene, BTEX and TPH concentrations were below recommended remediation levels for the Hazard Ranking Score.

No Phase III activities were conducted.

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

- The primary source, discharge to the pit, has been removed for over eight years.
- The test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- Bedrock was encountered at 5 feet bgs making further excavation impractical.
- The clean soil from the berms in combination with the imported clean fill placed on top of the excavation would limit the potential for direct contact with hazardous constituents by livestock or the public; i.e., current direct contact exposure pathways are unlikely to be completed.
- Groundwater was not encountered in the soil boring at 21 ft bgs; local geologic features indicate the depth to groundwater is greater than 50 ft bgs.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.



## PIT CLOSURE REQUEST

- Benzene, total BTEX, and TPH concentrations in the soil sample collected at the base of the Phase II soil boring at 21 ft bgs were non-detect, indicating that no significant downward constituent migration is occurring.
- Residual hydrocarbons in soil are likely to degrade by natural attenuation with minimal risk to human health and the environment.

## **ATTACHMENTS**

Field Pit Assessment Form Revised Field Pit Assessment Form Field Pit Remediation/Closure Form Phase II Soil Boring Log Laboratory Analytical Results

# **REVISED**FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 89822 Location: Marron WN Fed #1A
$\exists \mathbf{R}$	Operator #: Operator Name: P/L District:
Z	Coordinates: Letter: 上 Section 27 Township: 27 Range: 8
GE	Or Latitude Longitude
	Pit Type: Dehydrator Location Drip: Line Drip: Other:
	Site Assessment Date: $\frac{\partial}{\partial 5/9}$ & Area: Run:
	NMOCD Zone: Land Type: BLM 💢 (1)
	(From NMOCD State (2)
	$\begin{array}{cccc} \text{Maps}) & \text{Inside} & \boxed{ (1)} & \text{Fee} & \boxed{ (3)} \end{array}$
	Outside (2) Indian
	Depth to Groundwater
ı	Less Than 50 Feet (20 points) (1)
	50 Ft to 99 Ft (10 points) $\boxtimes$ (2)
	Greater Than 100 Ft (0 points) (3)
	Wellhead Protection Area
ASSESSMENT	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?
ES	(1) YES (20 points) (2) NO (0 points)
SS	Horizontal Distance to Surface Water Body
; A	
SITE	Less Than 200 Ft (20 points) (1)
SI	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, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)
	Distance to Nearest Ephemeral Stream (1) < 100' (Navajo Pits Only)
	TOTAL HAZARD RANKING SCORE:POINTS
KS	Remarks: Site has been re-assessed, due to initial assessment including washes
Z.	as a Surface Water Body. Site is < 100' vertical from
M	
REMARKS	Center of Unotre Jaquez Canyon.
4	

# FIELD PIT SITE ASSESSMENT FORM

AL	Meter: 8982 Location: Marron WN Feb. No. 1A					
ER	Operator #: 0286 Operator Name: Consco P/L District: Ballard					
GENERAL	Coordinates: Letter: E Section 27 Township: 27 Range: 8					
	Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other:					
	Site Assessment Date: <u>6/11/94</u> Area: <u>07</u> Run: <u>32</u>					
<b> </b>	Ared. D7 Run: 34					
	NMOCD Zone: Land Type: BLM 🔀 (1)					
	(From NMOCD State (2)					
	Maps) Inside (1) Fee (3)					
Ī	Outside 🔀 (2) Indian					
	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)					
E	Wellhead Protection Area:					
	Is it less than 1000 ft from wells, springs, or other sources of					
SSI	I HODE WALE EXHACIONS OF 18 It loss them opposite					
ASSESSMENT	demostic water source? (1) YES (20 points) (2) NO (0 points)					
AS	Horizontal Distance to Surface Water Body					
园	Less Inan 200 Ft (20 points)     (1)					
SITE	200 Ft to 1000 Ft (10 points) (2)					
<b>j</b>	Greater Than 1000 Ft (0 points) 💢 (3)					
	Name of Surface Water Body					
	(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks,					
	"" 34 day add a day bitches, bulkes, bulkes					
	Distance to Nearest Ephemeral Stream [ (1) < 100'(Navajo Pits Only)					
	$\square (2) > 100'$					
	TOTAL HAZARD RANKING SCORE: ΔD POINTS					
KS KS	Remarks: Realine Book + Vulnerable Zone Topo - Dutside					
[AR	2 pits. Will Close 1. At dry					
REMARKS						
μ4	PUSH-IN					



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

# PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

	SAMPLE	IDENTIFICA	TION			
	Field	ID	t	ab ID		
SAMPLE NUMBER:	yw 33	3	941.21	<b>%</b>		· ·
MTR CODE   SITE NAME:	89827			N/A		
SAMPLE DATE   TIME (Hrs):	9/26/9	1	114	15		
SAMPLED BY:		N	/A			
DATE OF TPH EXT.   ANAL.:	9/27/9	4	9/27/	34		
DATE OF BTEX EXT.   ANAL.:	NIA		NIA			
TYPE   DESCRIPTION:	VG		Brown	Sand O	Clan	į,
REMARKS:			·			
		DECLU TO				
		RESULTS				
	RESULT	UNITS		QUALIFIE	RS ·	
PARAMETER			DF	Ω	M(g)	V(ml)
TPH (418.1)	3900 3910	MG/KG			2.10	28
HEADSPACE PID	144	PPM	100			
PERCENT SOLIDS	87.9	%		. 4., 1. 1. 1. 1. 1. 1.		
		TPH is by EPA Metho	od 418.1			•
arrative:						
F = Dilution Factor Used	<del></del>					
•				,		
		·				

# FIELD PIT REMEDIATION/CLOSURE FORM

AI.	Meter: 89822 Location: Marron WN Fed # 1A
CENERAL	Coordinates: Letter: <u>E</u> Section <u>27</u> Township: <u>27</u> Range: <u>B</u>
F.F.	
	Date Started: <u>9-2b-9リ</u> Run: <u>07 32</u>
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
ORSERVATIONS	Sample Number(s): <u>UW333</u>
VAT	Sample Depth: Feet Feet
SER	Final PID Reading 144 PID Reading Depth 5 Feet
ı	Yes No
FIELD	Groundwater Encountered 🗆 🖾 Approximate Depth Feet
ΠŢ	
	Remediation Method :
	Excavation Excavation Approx. Cubic Yards
	Onsite Bioremediation
CITOF	Backfill Pit Without Excavation 🗵 🗝 -
1 5	
	ALSON DISPOSITION
5	ALSON DISPOSITION
	Envirotech
	Envirotech
015	Envirotech
015	Envirotech
	Envirotech

(SP3191) 03/16/94

El Paso Natural Ses Company

CHAIN OF CUSTODY RECORD

Matural Bas Company			CONTRACT LABORATORY P. O. NUMBER
PROJECT NAME :	St	REQUESTED ANALYSIS	
Pit Closure Project #	MPLE PAYER	<b>—</b>	7
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PREJINGUISHED BY: (Signature)  DATE/TIME 259 RECEIVED BY: (Signature)	pature)	(Stonold	0
9.26. OK 1809   NUMBER   SQUARING	De X Lill gnehurs)	RELINQUISHED BY: (Signature)	DATE/TIME RECEIVED OF LABORATORY BY: (Signature)
Religioushing er: (Sommer)	1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SAMPLE RECEIPT REMARKS  SAMPLE RECEIPT REMARKS	I REMARKS		FIELD SERVICES LABORATORY FIELD SATURAL GAS COMPANY EL PASO NATURAL GAS COMPANY
CARNIER CO.			P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499
CHARGE CODE			505-599-2144
BILLINO:			FM-08-0565A (Rev. 00

OENESO PHASE # DIPLIMANTS

10.31. PS Agor.

CHAIN OF CUSTODY RECORD 10-34-98 Bral.

Page

PROJECT NUMBER PRO # 24324 Did	PROJECT NAME Dit Closure Droject	re Pr	† jec		SF	-		REQUE	REQUESTED ANALYSIS	IALYSIS		CONTRACT LABORATORY P. O. NUMBER
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LABID DA	DATE TIN	TIME MA	MATRIX	FIELD ID	ATOT DD 90		9T 5 A93	3T8 3 A93	8AJ 19T	197 68 317 219	# seone	10 pord REMARKS
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CARRIER CO.				SAMPLE RECEIPT REMARKS  COOL & L	EMARKS F	1 th	2	1	708C		RESULTS & INVOICES TO: FI	FIELD SERVICES LABORATORY FI PASO NATIBAL GAS COMPANY
BILL NO:				CHARGE CODE								P.O. BOX 4990 FARMINGTON, NEW MEXICO 87499
										505	505-599-2144	FAX: 505-599-2261

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

ELLAG ARRE A IB... AR NA



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

# SAMPLE IDENTIFICATION

<u></u>	Field ID	Lab ID
SAMPLE NUMBER:	НАВЗ6	980652
MTR CODE   SITE NAME:	89822	Marron WN Fed #1A
SAMPLE DATE   TIME (Hrs):	9/15/98	1153
PROJECT:	Phas	e II Drilling
DATE OF TPH EXT.   ANAL.:	9/23/98	9/25/98
DATE OF BTEX EXT.   ANAL.:	9/17/98	9/17/98
TYPE   DESCRIPTION:	VG	SOIL

Field Remarks: 20-21'

# RESULTS

PARAMETER	RESULT	UNITS	DE:	OWALIFI)	onanannannosaeaannaa	
BENZENE	<0.5	MG/KG			Mig)	Y(m))
TOLUENE	<0.5	MG/KG				
ETHYL BENZENE	<0.5	MG/KG				
TOTAL XYLENES	<1.5	MG/KG				
TOTAL BTEX	<3	MG/KG				·
TPH (MOD.8015)	<20	MG/KG				
HEADSPACE PID	10	PPM				
PERCENT SOLIDS	92.9	%				

<b></b>	TPH is by EPA Method 418.1 and BTEX is by EPA Method 418.1	sthod 8020	7
The Surrogate Recovery was at	89.0 % for this sample	All QA/QC was acceptable.	
DF = Dilution Factor Used	2		
Approved By:	- laO .	Data: 16/68	÷





## GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

**CLIENT** 

: EL PASO FIELD SERVICES

PINNACLE I.D.: 809047

PROJECT #

: (none)

**PROJECT NAME** 

: PHASE II DRILLING

PROJECT	NAME	. PHASE II DIN	LLING				
SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	980648		NON-AQ	9/14/98	9/23/98	9/25/98	1 .
02	980649		NON-AQ	9/14/98	9/23/98	9/25/98	1
03	980650		NON-AQ	9/14/98	9/23/98	9/25/98	1
PARAMET	ER	DET. LIMIT	UN	IITS	01	02	03
FUEL HYD	ROCARBONS, C6-C10	10	MG	/KG	55	< 10	< 10
FUEL HYD	ROCARBONS, C10-C22	5.0	MG	/KG	610	< 5.0	< 5.0
FUEL HYD	ROCARBONS, C22-C36	5.0	MG	KG	420	< 5.0	< 5.0
CULAT	FED SUM:				1085		
O-TERPHE SURROGA		( 66 - 151 )			114	103	99

CHEMIST NOTES:

N/A





# GAS CHROMOTOGRAPHY RESULTS

**TEST** 

: EPA 8015 MODIFIED (DIRECT INJECT)

**CLIENT** 

: EL PASO FIELD SERVICES

**PINNACLE I.D.: 809047** 

PROJECT#

: (none)

**PROJECT NAME** 

: PHASE II DRILLING

- · · · · · · · · ·								
SAMPLE				DATE	DATE	DATE	DIL.	
ID. #	CLIENT I.D.	_	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR	
04	980651		NON-AQ	9/15/98	9/23/98	9/25/98	1	—
05	980652		NON-AQ	9/15/98	9/23/98	9/25/98	1	
PARAMET	ER	DET. LIMIT	UN	ITS,	04	05		_
<b>FUEL HYD</b>	ROCARBONS, C6-C10	10	. MG	/KG	< 10	< 10		_
FUEL HYD	ROCARBONS, C10-C22	5.0	MG	/KG	< 5.0	< 5.0	· •	
<b>FUEL HYD</b>	ROCARBONS, C22-C36	5.0	MG	/KG	< 5.0	< 5.0	•	
CALCULAT	FED SUM:		•					
ROGA	TE:							
0-TERPHE	ENYL (%)				101	101		
SURROGA	TE LIMITS	( 66 - 151 )	•					

CHEMIST NOTES: N/A

American Environmental Network (NM), Inc.

SHADED ARE FOR LAB USE ONLY.

CHANDE CUSTODY
DATE: 9/17/98\_PAGE: 1.0F\_1

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	100	:slafsM	<b> </b>	-	ļ	<u> </u>					ļ								<b>     </b>	12
	47	RCRA Metals by TCLP (Method 1311)	—	<del> </del>	-		<u> </u>				_			Time		Date:	ĺ		Time:	M. Class
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	AN	8260 (TCL) Volatile Organics												1	//Calm	ar	pany	낊	Signature	Printed Name:
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		80S1 (TCL)					_	$\dashv$		_	_	_	R		l œ		l			
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٤	3	COMPANY: E1  ADDRESS: 772  PHONE: 665  FAX: 605  BILL TO: 605  ADDRESS: 605											٦	왿	¥	اق	ä	1 8	Į į	1 5
È	PHOJECT MANAGER: JOhn	O A E E B O A						-						PROJ. NO.:	PROJ. NAME:	P.O. NO.:	SHIPPED VIA:		CUSTODY SEALS	RECEIVED INTACT.
_		PROCESS.				1		- 1		1	- 1		120 / 1	~ /	~ 1	- 1	~,	🛘 📲	_ ,	, p

15198 AEN Inc.: American Environmental Network (NM), Inc. • 2709-D Pan American Freeway. NE • Albuniernue New Mevirn 87107 • 15051 344-3777 • 5-2 15051 344 344

BLUE ICENDE

PLEASE FILL THIS FORM IN COMPLETELY.

Сотрапу:

# RECORD OF SUBSURFACE EXPLORATION

PHILIP'SERVICES CORP.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

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Project Number 19643 Phase Project Name EPFS PITS >10 1001.77

Project Location MARRON WN FEO

Elevation Borehole Location LTR: E S: 27 T: 27 R: 8 GWL Depth Drilled By K. PADILLA Well Logged By H. BRADBURY Date Started 9/15/99 **Date Completed** 

Drilling Method 4 1/4 ID HSA

- 7/15	148	Drillin Air Aa	g Method	4 1/4 ID HSA	
Depth (Feet) Sample Sample Interval Recover (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology	Air Monitoring Units: PPM BZ BH S/HS	Drilling Conditions & Blow Counts
5	EXCAVATION SAMPLE COLLECTED At 5'				BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
10 1 10-11 6	LTBR SANDSTONE MED SAND LOW CEMENTATION, DRY			0 172 361	1123 hrs
	MOD GETTENHATION, dry				1137 hrs
20 3 2021 6 L	TBR SANDSTONE, FINE SAND, IOW CEMENTHION, SPU TOB21			1 72	hard deilling 1183 hrs
30					
35					
40					
Comments: #ABBL 25 ENCOUNTER	0-21' SENT to 1ALD F	DR	TPH	BTE	t GW NOT

Geologist Signature

## **BTEX SOIL SAMPLE WORKSHEET**

File :	980652	Date Printed :	9/23/98	
Soil Mass (g):	5.13	Multiplier (L/g) :	0.00097	
Extraction vol. (mL):	10	CAL FACTOR (Analytical):	200	
Shot Volume (uL):	50	CAL FACTOR (Report):	0.19493	
		DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L) : <	0.5	Benzene (mg/Kg): #	<b>VALUE!</b>	0.487

(ug/L) : <0.5 Toluene (mg/Kg): #VALUE! 0.487 Toluene 1.03 0.487 Ethylbenzene (ug/L): Ethylbenzene (mg/Kg): 0.200 p & m-xylene (mg/Kg): 0.221 0.975 p & m-xylene (ug/L) : 1.13 o-xylene (mg/Kg): #VALUE! o-xylene (ug/L): <0.5 0.487

Total xylenes (mg/Kg): #VALUE!

Total BTEX (mg/Kg): #VALUE!

1.462