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 RISK bedvock defined to plume

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

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

	289	10/11/27	\
Operator: Dugan Production Corp	Telephone:	EC 20	
Address: 30	039-05748 m on on	~ 4002 }	1718
Facility Or: Mexico Federal H#1, Meter 732 Well Name	218	7.3° M.	J
Location: Unit or Qtr/Qtr Sec_D_Sec_3	4 T 25 R 3 County	y Rio A	rriba
Pit Type: Separator Dehydrator	Other <u>Drip</u>		
Land Type: BLM, State, Fe	e X Other		
	, other		
Footage from reference:1	21'		
Direction from reference:240	0 Degrees X East No		
Direction from reference: 240		orth of est Sout	
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)		of	
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of	Less than 50 feet 50 feet to 99 feet	of est Sout	(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	Less than 50 feet 50 feet to 99 feet	of est Sout	(20 points) (10 points) (0 points)20

Date Remediation Starte	d: <u>10/05/94</u> Date completed: <u>10/05/94</u>
Remediation Method:	Excavation Approx. cubic yards
	Landfarmed Insitu Bioremediation Other Backfill pit without excavation
(i.e. landfarmed onsite, name and location of offsite facility)	Onsite N/A Offsite N/A emedial Action: 10' sandstone
Ground Water Encounters Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	ed: NoX Yes Depth Sample locationFour walls and center of pit composite
locations and depths)	Sample depth10' Sample Date10/05/94
Ground Water Sample:	Yes NoX (If yes, attach sample results)
hereby certify that the interpolate 1/8/03	Printed Name Swit T. Pope and Title Senior Env. Scientist
- June	1.1. and THE Senial KNV. Scientist



Mexico Federal H#1 Meter/Line ID 73218

SITE DETAILS

Sec: 34

Rng: 3W Legals - Twn: 25N

NMOCD Hazard Ranking: 20 Operator: Dugan Production Corp

Land Type: Fee

Pit Closure Date: 10/05/94

Unit: D

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 10 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 186 ppm; laboratory analysis indicated a TPH concentration of 6,910 mg/kg. The field headspace analysis and TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score of 20.

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

A Phase II boring was completed to refusal at 21.5 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 21-21.5 ft bgs. There was not enough sample for Headspace analysis; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of <3 mg/kg, and a TPH concentration of 37 mg/kg. The benzene, TPH and BTEX 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.
- The clean soil from the berms 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 to 21 ft bgs.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the
- Benzene and total BTEX concentrations were non-detect at the base of the soil boring.
- TPH concentrations in the soil at 21 ft bgs were less than 1% of the concentration at 12 ft bgs, and were below the recommended remediation levels for this site. This strong attenuation with depth



indicates that residual hydrocarbons will degrade by natural attenuation with minimal risk to 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

REVISEDFIELD PIT SITE ASSESSMENT FORM

	Meter: 73218 Location: Mexico Federal H#154 #1
	Operator #: Operator Name: P/L District:
IEF	Coordinates: Letter: D Section 34 Township: $\Delta 5$ Range: 3
GENER	
G	Or Latitude Longitude
	Pit Type: Dehydrator Location Drip: Line Drip: Other:
	Site Assessment Date: 4/14/98 Area: Run:
·	
,	NMOCD Zone: Land Type: BLM (1)
	(From NMOCD State (2)
	Maps) Inside \Box (1) Fee \boxtimes (3)
	Outside (2) Indian
	Depth to Groundwater
	Less Than 50 Feet (20 points) \boxtimes (1)
·	50 Ft to 99 Ft (10 points) (2)
	Greater Than 100 Ft (0 points) (3)
	Wellhead Protection Area
	Is it less than 1000 ft from wells, springs or other sources of fresh water
M	extraction?, or; Is it less than 200 ft from a private domestic water source?
SITE ASSESSM	
SSI	
A	Horizontal Distance to Surface Water Body
TE	Less Than 200 Ft (20 points) (1)
SI	200 Ft to 1000 Ft (10 points) (2)
	Greater Than 1000 Ft (0 points)
	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: 20 POINTS
RKS	
RI	Remarks: Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Site has been re-assessed, due to initial assessment including washes
	Leeson Canyon
7	C. Sui) Canyon
1	

(assess) 12/16/9

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 73-218 Location: Mexico Federal ## Operator #: 1862 Operator Name: Production P/L District: Ojito Coordinates: Letter: D Section 34 Township: 25 Range: 3 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 8/11/94 Area: 08 Run: 91
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside (2) Depth to Groundwater Less Than 50 Feet (20 points) Greater Than 100 Ft (0 points) 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? Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) Greater Than 1000 Ft (0 points) Greater Body Less Than 200 Ft (20 points) (1) 200 Ft to 1000 Ft (10 points) (2) Greater Than 1000 Ft (0 points) (3) Name of Surface Water Body Lesson Canyon (Surface Water Body: Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only) (2) > 100'
	TOTAL HAZARD RANKING SCORE: 40 POINTS
	Remarks: Realine Book - Inside Vulnerable Zone Tage - Outside
REMA	Three pits on site, location drip pit is dry, will close one.
題	
	WINCH TAX



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field	I ID		Lab ID		•	
SAMPLE NUMBER:	vw 37	. الو	<i>عدا</i>	346			
MTR CODE SITE NAME:	7321	8		N/A			
SAMPLE DATE TIME (Hrs):	10 - 5 -	1	15	200			
SAMPLED BY:		N/	Α .				
DATE OF TPH EXT. ANAL.:	10-6-9)4	,				
DATE OF BTEX EXT. ANAL.:	414			A			
TYPE DESCRIPTION:	V G		Poroun/a	Frey San	d & Clan		
		•	/ (, ,	1		
REMARKS:						: 	<u></u>
		RESULTS					
PARAMETER	RESULT	UNITS		QUALIF	IERS		
	en e		DF	Q	M(g)	V(ml)	
69 TPH (418.1)	10 6920	MG/KG			125	28	
HEADSPACE PID	186	PPM					
PERCENT SOLIDS	94.3	%				n p. Nave	
		TPH is by EPA Method	1 418.1				,
ırrative:		,					٠.
		· .		· · · · · · · · · · · · · · · · · · ·		·	
= Dilution Factor Used							

10-13-94

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 73218 Location: Mexico Federal H #/ Coordinates: Letter: D Section 34 Township: 25 Range: 3 Or Latitude Longitude Date Started: 10-5-94 Run: 08 9/
FIELD OBSERVATIONS	Sample Number(s): \(\subseteq \text{376} \) Sample Depth: \(\subseteq \text{10'} \) Feet Final PID Reading \(\subseteq \text{10'} \) Feet Yes No Groundwater Encountered \(\subseteq \text{10'} \) Approximate Depth \(\subseteq \text{10'} \) Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: 10 Sandelane
	Signature of Specialist: Vall Wilson (SP3181) 03/16/84

PROJECT NUMBER		PROJECT N	IAME		,			BEOTTED ANALYSIS		CONTRACT LABORATORY P. O. NUMBER
		PIT CL	osure l	Pit Closure Project # 24324	A36 8A3			מבתספטובה אואביוסיי		
SAMPLERS: (Signature)				DATE:	MUN J	AMPLE TYPE	18.1 X:	020 2020	#	
74	10 M	Г		44.5-0	IATO OO 3			8 A	<u> </u>	STANDO
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER)O		+	43	25	НЕМАНКО
0011 10.5.20 1100	D-5-94	1100	50:1	VW 375		1/2	又		338	
7/10/59	7.594	1200),'&S	VW 376		3	×		337	
005/W 10594 1850	₩ 9-594	7300 1300	1:05	VW3>>		3	×		338	
त्र भुष्ट । भ		1340	50,[1/W378	_	2/3	X		339	
5751 12.5-01 2451	1.5.24	25	56;(Vw3>9		16	\times		340	
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1,7,4										
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	-				· · · · · · · · · · · · · · · · · · ·					
RELINQUISHED BY: (Signature)	ED BY: (Si	gnature)		10.5 % PECEIVED BY: (Signature)	nature)	1000		RELINOHISHED BY: (Signatura)	Lica	DATETIME ARECEIVED BY: (Signature)
RELINOUISH	4ED BY: (Signature	gnature)			mature)			AELINOUISHED BY: (Signatura)		DATECTIME RECEIVED OF LABORATORY BY: (Signature)
REQUESTED TURNAROUND TIME: C) ROUTINE CARNIER CO.	D TURNAR	NAROUND TIME:		SAMPLE RECEIPT REMARKS	REMARKS		1		RESULTS & INVOICES TO:	FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPANY
BILL NO.:				CHARGE CODE					505-599-2144	FARMING



Mase I Drilling CHAIN OF CUSTODY RECORD 4.3. 18 Bud.

77318 21-21.5 FIELD SERVIÇES LABORATORY EL PASO NATURAL GAS COMPANY P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499 RECEIVED OF LABORAZORY BY: REMARKS CONTRACT LABORATORY P. O. NUMBER Mexico Fe HAHI DATE/TIME 4 RESULTS & INVOICES # SEGNENCE 20 X518 8088 1608 1914 ₹ REQUESTED ANALYSIS RELINQUISHED BY: (Signature) RELINQUISHED BY: (Sign **GIN BA**J **BTEX** 0208 A93 1406 H9T 1.814 A93 (BO) + Tutact 200 SAMPLE 39YT TOTAL NUMBER OF CONTAINERS RECEIVED BY: (Signature) DATE: 2/3/9 & CHARGE CODE CMC406 FIELD ID 1081/36/0 DATE/TIME PROJECT NAME PIT Closure Project MATHIX 1103 4561 18/5/8 TIME DATE REQUESTED TURNAROUND TIME: O RUSH # 24324 SAMPLERS (Signature) IOUISHED BY: (Sig PROJECT NUMBER 980539 \ABID O ROUTINE CARRIER CO. BILL NO.:

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

FAX: 505-599-2261



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID		
SAMPLE NUMBER:	CMC406	980539		
MTR CODE SITE NAME:	73218	Mexico Fed H #1		
SAMPLE DATE TIME (Hrs):	8/3/98	1324		
PROJECT:	Phase II Drilling			
DATE OF TPH EXT. ANAL.:	8/13/98	8/14/98		
DATE OF BTEX EXT. ANAL.:	8/10/98	8/11/98		
TYPE DESCRIPTION:	VG	SOIL		

Field Remarks: 21-21.5' There was not enough sample for the headspace PID test.

RESULTS

PARAMETER	RESULT	UNITS		OUALIFI	entra en tra tra tra de la companya	
			DF.	O .	Mgl	Y(m))
BENZENE	<0.5	MG/KG				
TOLUENE	<0.5	MG/KG	<u> </u>			
ETHYL BENZENE	<0.5	MG/KG				
TOTAL XYLENES	<1.5	MG/KG		·		
TOTAL BTEX	<3	MG/KG				
TPH (MOD.8015)	37	MG/KG	·			
HEADSPACE PID	N/A	PPM				
PERCENT SOLIDS	95.0	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at	88.5	_% for this sample	All QA/QC was acceptable
81			

DF = Dilution Factor Used

Date: 8/25/48

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

1000 Monroe Road nington, New Mexico 87401 05) 326-2262 FAX (505) 326-2388

Borehole #	вн-
Well#	NA
Page 1	of /

Project Number 19643 Phase 1001.77
Project Name EPFS PITS >10
Project Location Mexico Fold Hall 7.3318

Elevation

Borehole Location LTR: D S: Y T: 25 R:

GWL Depth
Drilled By
Well Logged By
Date Started
Date Completed

Elevation

LTR: D S: Y T: 25 R:

NA

K: PADILLA C. Levate

C. CHANCE

9/3/4 A

2/3/4 R

Drilling Method 4 1/4 ID HSA
Air Monitoring Method PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	١ ،	r Monito Inits: P	PM	Drilling Conditions & Blow Counts
(Feet) 0	Number 1	Interval	Recovery (inches)		Symbol	Lithology	BZ O	Units: PBH	767 5905 267	& Blow Counts BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
30										

Geologist Signature

omments:



GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

PINNACLE I.D.: 808033

PROJECT#

: (none)

PROJECT NAME

: PHASE II DRILLING

SAMPLE			· · · · · · · ·	DATE	DATE	DATE	DIL.
ID.#	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	980539		NON-AQ	8/3/98	8/13/98	8/14/98	1 .
02	980540		NON-AQ	8/3/98	8/13/98	8/14/98	. 1
03	980559		NON-AQ	8/6/98	8/13/98	8/14/98	1
PARAMET	TER	DET. LIMIT	UN	ITS	01	02	03
FUEL HYD	DROCARBONS, C6-C10	10	MG	/KG	< 10	< 10	< 10
FUEL HY	DROCARBONS, C10-C22	5.0	MG	/KG	22	< 5.0	5.4
FUEL HYD	DROCARBONS, C22-C36	5.0	MG	/KG	15	< 5.0	8.4
CALCULA	ATED SUM:				37		13.8
SURROGA O-TERPH					107	95	104
SURROGA	ATE LIMITS	(66 - 151)					

CHEMIST NOTES:

N/A

2709-D Pan American Freeway, NE, Albuquerque, New Mexico 87107

Phone: 505-344-3777, Fax: 505-344-4413

Printed: 8/18/98; 9:21 AM

onfidential



GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

PINNACLE I.D.: 808033

PROJECT#

: (none)

PROJECT NAME

: PHASE II DRILLING

SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	980560		NON-AQ	8/6/98	8/13/98	8/14/98	1
05	980561		NON-AQ	8/7/98	8/13/98	8/14/98	1
PARAME	TER	DET. LIMIT	UN	NTS	04	05	· · · · · · · · · · · · · · · · · · ·
FUEL HY	DROCARBONS, C6-C10	10	MG	S/KG	< 10	< 10	
FUEL HY	DROCARBONS, C10-C22	5.0	MG	KG	< 5.0	< 5.0	
FUEL HY	DROCARBONS, C22-C36	5.0	MG	KG	< 5.0	< 5.0	
CALCUL	ATED SUM:					5.5	

91

91

ROGATE: ERPHENYL (%) SURROGATE LIMITS

(66 - 151)

CHEMIST NOTES:

N/A

2709-D Pan American Freeway, NE, Albuquerque, New Mexico 87107

Phone: 505-344-3777, Fax: 505-344-4413

American nvironmental Network (NM), Inc.

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TODY	Market .
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CH B DATE: B DATE:	

RCRA Metals by TCLP (Method 1311) Metals:												William Wells and State							
RCRA Metals (8)											1	Time	2	Cale		i)			
Target Analyte List Metals (S3)											i ii								
Priority Pollutant Metals (13)	<u> </u>						<u> </u>	<u> </u>						ني ا		8			
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General Chemistry:												Sig	٥					鑑	
Polynuclear Aromatics (610/8310)														95					
Base/Neutral/Acid Compounds GC/MS (625/8270)										Ш		ì	20	<u> </u>	•				
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Pesticides /PCB (608/8081)	<u> </u>								 		*	Time	3				T T T T T	Date:	
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S260 (CUST) Volatile Organics	<u> </u>	-		ļ	_		_			<u> </u>	ileili	9	3	==	T/				
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850 Fie N. N. S99 - 599	8/3	8/3	9/6/	8/6/	8/2	`					7.10		_	-					
SS. 770 W. (505) 599 (505)	980539	980540	980559	980860	980561						NEW MERCENT CONTRACTOR		PHOJ. NAME: Phase IL Drilling		ed Ex	SALE Idea of the Control		3	
COMPANY: E 1 ADDRESS: FA PHONE: (SC FAX: (SC COMPANY: ADDRESS:	6	0	6	6	36						ENEXTE	PROJ. NO.:	PROJ. NAME: P	P.O. NO.:	SHIPPED VIA: Fed		SEMPONEOUS COM	THE WINGSHA	THE CONTRACTOR OF THE CONTRACT

1/5/98 AEN Inc.: American Environmental Network (NM), Inc. • 2709-D Pan American Freeway, NE • Albuquerque, New Mexico 87107 • (505) 344-3777 • Fax (505) 344-4413

PLEASE FILL THIS FORM IN COMPLETELY.

DISTRIBUTION: White - AEN, Canary - Originator

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

Q00 Monroe Road nington, New Mexico 87401 5) 326-2262 FAX (505) 326-2388 Borehole # Well#

Project Number 19643 Ph Project Name EPFS PITS >10 Phase 1001.77

Project Location Mexico

Elevation Borehole Location LTR: D **GWL** Depth K. PADILLA Drilled By Well Logged By C. CHANCE **Date Started Date Completed**

Drilling Method 4 1/4 ID HSA

Air Monitoring Method PID

Dames		ĺ <u>.</u>	Sample	·	1	Depth			
Depth (Fast)	Sample Number	Sample	Type &	Sample Description	uscs	Lithology	Air M	onitoring	Drilling Conditions
(Feet)	NUMBER	Interval	Recovery (inches)	Classification System: USCS	Symbol	Change	1	s: PPM	& Blow Counts
0		-	(RICHES)		 	(feet)	BZ	BH S/HS	
					1		1 1	- 1	BZ=Breathing Zone
⊢					1	l			BH=Borehole
_			•					ł	S/HS=Sample/Headspace
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Geologist Signature

BTEX SOIL SAMPLE WORKSHEET

File		:	980539	Date Printed :	8/12/98
Soil Mass	(g)	:	5.02	Multiplier (L/g) :	0.00100
Extraction vol.	(mL)	:	10	CAL FACTOR (Analytical):	200
Shot Volume	(uL)	:	50	CAL FACTOR (Report):	0.19920

		DILUTION F	FACTOR:	1	Det. Limit
Benzene	(ug/L) : <0.5	Benzene	(mg/Kg):	#VALUE!	0.498
Toluene	(ug/L):< 0.5	Toluene	(mg/Kg):	#VALUE!	0.498
Ethylbenzene	(ug/L) : < 0.5	Ethylbenzen e	(mg/Kg):	#VALUE!	0.498
p & m-xylene	(ug/L) : <1.0	p & m-xylene	(mg/ Kg):	#VALUE!	0.996
o-xylene	(ug/L) : <0.5	o-xylene	(mg/Kg):	#VALUE!	0.498
		Total xylenes	(mg/Kg):	#VALUE!	1.494
		Total BTEX	(mg/Kg):	#VALUE!	