Vented-LT

15/0W 1 100 aveg

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
trict III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

AUG 1 2 1990

PIT REMEDIATION AND CLOSURE REPORTS

Onerstor.	Amoco Production Company	Telephone: (505) - 326-9200
	200 Amoco Court, Farmingto	
Facility Or:_	MARTINEZ GC E	5 # /
Well Name	)	- 74 - 29N 2 100) course SPO) TURA
Location: Unit	or Qtr/Qtr Sec	Sec 24 T 29N R 10W County SAN JUAN
pit Type: Sep	arator Dehydrator	Other Blow
		, Other
	mik almanalana. lanat	th 15', width 25', depth 16'
Pit Location: Attach diagram	Pic dimensions: Tende	/ other
	Reference: wellhead_/	X, other
	Footage from reference	<u> 36</u>
	Direction from referen	nce: 40 Degrees X East North
		West South 🔀
		<del></del>
Depth To Grou	ınd Water:	Less than 50 feet (20 points)
(Vertical dista	nce from	50 feet to 99 feet (10 points) Greater than 100 feet (0 Points) 10
contaminants to high water elev	seasonal ation of	Greater chan too root (*,
ground water)		
	Laction lyan	Yes (20 points)
(Less than 200	tection Area: feet from a private	Yes (20 points) No (0 points) <u>2</u> 0
domestic water	source, or; less than all other water sources)	
1000 lest Llow	TIT ACHET METER BASEAGE)	
Distance To	Surface Water:	Less than 200 feet (20 points)
" 'Horizontal dis	tance to perennial	200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)
irrigation cana	rivers, streams, creeks,	
		RANKING SCORE (TOTAL POINTS): 40

Date Remediation St	arted:	Date Completed:	7/13/93
lemediation Method:	Excavation $\times$	Approx. cubic yards 91	300
(Check all appropriate sections)	Landfarmed 🔀	Insitu Bioremediation _	
	Other		
·	**************************************	·	
Remediation Locatio (ie. landfarmed onsite, name and location of offsite facility)	n: Onsite_X Off	site	-
General Description	Of Remedial Action		
		T ESTABLISHED LATERAL	EXTENT -
Kisx t	ysessed.		
		•	
Ground Water Encoun	tered: No 🔀	Yes Depth	
Final Pit: Closure Sampling: (if multiple samples,	Sample location	see Attached Documents	
attach sample results and diagram of sample	Sample depth	16 (PIT BOTTOM)	
locations and depths)	Sample date 7/8	1	1035
	Sample Results		
	Benzene(ppm)		
	Total BTEX(pp	m)	
	Field headspa	ce(ppm) 51.	
	TPH 12.3 ppm	<u> </u>	
Ground Water Sample	: Yes No 🔀	(If yes, attach sample	results)
I HEREBY CERTIFY TH	AT THE INFORMATION BELIEF	ABOVE IS TRUE AND COMPLET	E TO THE BEST
DATE 7/13/93	A	RIINCI	. \
SIGNATURE BASI	PRINTED AND TITL		opedinator

Coc 2791

### ENVIROTECH Inc

FIELD REPORT: CLOSURE VERIFICATION    Control   Lease   MRTSNEZ   685 (am 18   WELL No. 1   00   No. 1/4   10   10   10   10   10   10   10   1	LIGATION LEASE MERTUREZ CRS COUNTS WELL NO. 19 MANAGED CONTRACTOR FROM RNG. 10 M BM MANAGED CONTRACTOR FROM WELL-TEAD  SOIL FEMEDIATION: QUANTITY: DS-8278 (AUSBERTAN)  LIND USE: TREASE-TEAD  SURFACE CONDITIONS: QUANTITY: DS-8278 (AUSBERTAN)  LAND USE: PACHASTO LEAN LEASE FRANCE  SURFACE CONDITIONS: Exemitate Lean Metalet. AND LINCOLD CONTRACTOR FROM WELL-TEAD  DEPTH TO GROUNDWATER SO-900 Resonance See Prior to Closure (Panding Laboratory Resoures). 7/8-77  REREST SURFACE WATER: 500 Resonance Contractory Resources for the contract specific for the closure (Panding Laboratory Resource). 7/8-77  Resonance Closure/Managed Laboratory Resources for the libs of the	C49/4 5796 US HWY 64, FARMINGTON, NM 87401 (505) 632-0615	: 
SEC 24 THP 24 RIC 101 BM MARPO CNTY 53 STAM PIT CLOW CONTRACTOR POLL VINCAGUO 2  EQUIPMENT USED TRACK-NOS  SCIL PEMEDIATION: QUANTITY: DISPOSAL FACILITY: DISPOSAL FA	SEC 24 THP 284 RNG 104 BM MIND CNTY 55 ST JAM PIT GLOW  CONTRACTOR PAUL MINESCHOOL  CONTRACTOR CONTRACTOR  CONTRACTOR CONTRACTOR  CONTRACT	FIELD REPORT: CLOSURE VERIFICATION	UCB No 92140 PAGE No 1 of 1
SOIL FEMELIATION: QUANTITY: 15 x25 x 15 deep (1945) 15 x 10 x	SOIL PEMECIATION: QUANTITY: US'X25'X 15 deep (12-5-13) 15 AND USE PARTY (AND ENDANGED IN A MOUNT OF THE CONTROL	SEC: 24 TWP: 29N RNG: 10W BM: NAMPH CNTY: ST ST.NM PIT BLOW	CATE FINISHED. 7.9-93
DISPOSAL FACILITY: ON- ETTS LANDAGE  LAND USE: PREVATE LIBRO- PANAGE  SURFACE CONDITIONS: EXCHAPTED HOW MELLY 12 VARDS SYDE FROM WELLHEAD  FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 12 YARDS SYDE FROM WELLHEAD  DEPTH TO GROUNDWATER: 50-700 RECEIVED AND APPROXIMATELY 12 YARDS SYDE FROM WELLHEAD  DEPTH TO GROUNDWATER: 50-700 RECEIVED AND APPROXIMATELY 12 YARDS SYDE FROM WELLHEAD  DEPTH TO GROUNDWATER: 50-700 RECEIVED AND APPROXIMATELY 12 YARDS SYDE FROM WELLHEAD  DEPTH TO GROUNDWATER: 50-700 RECEIVED AND APPROXIMATELY 12 YARDS SYDE FROM WELLHEAD  DEPTH TO GROUNDWATER: 50-700 RECEIVED AND APPROXIMATELY 12 YARDS SYDE FROM WELLHEAD  DEPTH TO GROUNDWATER: 50-700 RECEIVED AND APPROXIMATELY 12 YARDS SYDE FROM WELLHEAD  PROFITE OF COLORED AND APPROXIMATELY 12 YARDS SYDE FROM WELLHEAD  RESIDENCE OF COLORED AND APPROXIMATELY 12 YARDS SYDE FROM WELLHEAD  RESIDENCE OF COLORED AND APPROXIMATELY 12 YARDS SYDE APPROXIMATEL	DISPOSAL FACILITY: ON- ETTS LAND BASINAM  LAND USE: PREVITE LIBES - RANGE  SURFACE CONDITIONS: EXCHURTED LAND LESSED (CONTRACE LAND LAND LIBES)  FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 12 YARD: \$40° FROM WELLHEAD  DEPTH 10 GROUNDWATER: 50'-700'  NEAREST WATER SOURCE: 500', NEAREST SURFACE WATER 500'  NEAREST SURFACE WATER: 500', Prior to closure (Produing Laboratori, Resourts).  Prior to closure (Produing Laboratori, Resourts).  Residence Located Agrica 400' Southeast of fill.  Lab Sample 10 LAB No. WEIGHT (g) ml FREON CILLUTION READTH STANCE FROM  SCALE SUBJECTION WEIGHT (g) ml FREON CILLUTION READTH STANCE FROM  O \$ 10 FRET N  PIT PERIMETER RESULTS  OVM  PIT PERIMETER RESULTS  OVM  PIT PROFILE  SOUTH SALE  100 FROM SALE	EQUIPMENT USED: TRACK-HOS	
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 12 YARDS SUCE FROM WELLHEAD  DEPTH TO GROUNDWATER: 50/10  NEAREST VATER SOURCE 500  NEAREST VATER SOURCE 500  Prior to Closure (Prioring Laboratory, Resourts).  Residuer Lacated Approx 400 Sources of Prior to Closure (Located Approx 400 Sources of Prior to Closure (Loc	FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 12 YARDS S40° FROM WELLHEAD  DEPTH TO GROUNDWATER: 50' 70°  NEAREST VATER SOURCE 50°  PREAREST VATER SOURCE 50°  Prior to Closure (Finding Laboratory (Resourts)). 76-877  Residiver Located Agrass 400' Southast of Pit.  Lob Sample 1D LAB No: WEIGHT (9) Int. FPECN CHUTION REACHES CALC. ppm  FIELD 418.1 CALCULATIONS  SAMPLE 1D LAB No: WEIGHT (9) Int. FPECN CHUTION REACHES CALC. ppm  FIELD 418.1 CALCULATIONS  SCALE  SUBSTITUTE RESULTS  PIT PROFILE  PIT PROFILE  SUBSTITUTE RESULTS  PIT PROFILE	DISPOSAL FACILITY: ON- SETTS LAW DEALLY	(15'deep (7-9-53
RECOMMEND ADDITIONAL OXCHIATION AT 4, then Reverification Prior to Closure (Prioring Laboratory, Resures).  REAREST SURFACE WATER 500', NEAREST SURFACE WATER 500', Residence Lacated Approx (400 South and 45).  Lob Sample South South Prioring South Sout	DEPTH TO GROUNDWATER: 50'-70'  NEAREST WATER SOURCE: 500', NEAREST SURFACE WATER: 500', NEAREST WATER SOURCE: 500', NEAREST WATER SOU	SURFACE CONDITIONS: EXCHUNTED UPON ALLEVAL - NO VESTELE CONTA-	MENATION
Resolution Reading Lab analysis of SOIL'S SOIL SUSPENDED TO SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOI	Recommend closure/backs// pending Lab analysis of 50/6/65  FIELD 418.1 CALCULATIONS  SAMPLE I.D LAB NO: WEIGHT (g) ML FFECH DILUTION READING CALC PEM  SCALE  SUSTAIN FROM  O 5 10 FEET    PIT PERIMETER  RESULTS  PIT PROFILE  SAMPLE PROFILE	DEPTH TO GROUNDWATER: 50'-100' NEAREST WATER SOURCE: 500' NEAREST SURFACE WATER: 500' Residence Located Approx 400' Southeast of P.	4, then Reverification 7-8-93 Results).
SCALE  SOLETALS FLOW  AND STATE OF FEET  PIT PERIMETER  RESULTS  SAMPLE PROFILE  SAMPLE PROFIL	SCALE  SUETAGE FLOW  AND SUSPECT OF FEET  PIT PERIMETER  RESULTS  SAMPLE FICE MEASURE  OWN  PIT PROFILE  SAMPLE FICE MEASURE  OWN  PIT PROFILE  SAMPLE FICE MEASURE  OWN FOR SOIL  OF PROFICE  OWN FOR SOIL  OWN FOR ME. (SIZE)  AD UISTRUT CONTANT ZUAT FOOK.	Recommend closure/backs11 pending La FIELD 418.1 CALCULATIONS	b analysis 6 7-9-93
OFFET PERIMETER  PIT PERIMETER  RESULTS  PIT PROFILE  SAMPLE FIELD MEASOPACE 10 17 ML 18.9  10 17 ML 18.9  10 10 ML 1.9  1	O S /V FEET NOVM PIT PERIMETER  RESULTS  PIT PROFILE  SAMPLE FIELD MEASURCE PRO (OPEN) PO 17 ML 48.9  10 17 ML 25.0  10 17 ML		- Company
OFFET PERIMETER  PIT PERIMETER  RESULTS  PIT PROFILE  SAMPLE FIELD MEASOPACE 10 17 ML 18.9  10 17 ML 18.9  10 10 ML 1.9  1	O S /V FEET NOVM PIT PERIMETER  RESULTS  PIT PROFILE  SAMPLE FIELD MEASURCE PRO (OPEN) PO 17 ML 48.9  10 17 ML 25.0  10 17 ML		
OFFET PERIMETER  PIT PERIMETER  RESULTS  PIT PROFILE  SAMPLE FIELD MEASOPACE 10 17 ML 18.9  10 17 ML 18.9  10 10 ML 1.9  1	O S /V FEET NOVM PIT PERIMETER  RESULTS  PIT PROFILE  SAMPLE FIELD MEASURCE PRO (OPEN) PO 17 ML 48.9  10 17 ML 25.0  10 17 ML		
		OF TO FEET PIT PERIMETER  PIT PERIMETER  RESULTS  PIT  SAMPLE FIELD HEADSPACE  DO 12 ML 48.9  30.17 ML 25.6  Wery Fine  100.000  100.00000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.00000  100.00000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.0000  100.00000  100.00000  100.00000  100.0000  100.00000  100.0000  100.00000  100.00000  100.00000  100.00000  100.00	orn Soil Tote Yellowsh Blown ML. (SIRT)  5, MOBST, NOW- TOHOS

Well Name:

Well Site location:

Pit Type:

**Producing Formation:** 

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Martinez GC B #1

Unit L, Sec. 24, T29N, R10W

Blow Pit

Aztec Pictured Cliffs

Vulnerable

< 1000 ft.

> 50 ft.

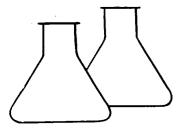
#### RISK ASSESSMENT (vulnerable area)

Pit remediation activities were terminated when trackhoe reached practical extent for abandoned pit at 16 ft. below grade.

No past or future threat to surface water or groundwater is likely based on the following considerations:

- 1. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below presumed shallow sandstone bedrock (based on informal site observation of nearby sandstone outcrop).
- 2. Topographic information does not indicate off site lateral fluid migration near the earthen pit.
- 3. Daily discharge into the earthen pit has been terminated (pit abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.
- 4. Vertical extent at the pit area was cleaned up to below the NMOCD standards (disclosed within their surface impoundment guidelines).

Based upon the information given, we conclude that the subsurface lateral contamination is limited and impact to groundwater is very unlikely. AMOCO requests pit closure approval on this location.



## ENVIROTECH LABS

5796 US Highway 64-3014 • FARMINGTON, New Mexico 87401 Phone: (505) 632-0615 • Fax: (505) 632-1865

#### EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	5 @ 16' bgs	Date Sampled:	07-08-93
Laboratory Number:	5643	Date Received:	07-08-93
Sample Matrix:	Soil	Date Analyzed:	07-13-93
Preservative:	Cool	Date Reported:	07-13-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	12.3	5.0

ND = Parameter not detected at the stated detection limit. N/A = Not applicable

Method:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and

Waste, USEPA Storet No.4551, 1978

Comments: Martinez Gas Com "B" 1, Blow Pit, C4914.

analyst haharly

Review You

CHAIN OF CUSTODY RECORD

			Remarks			CANCEL CAMY	-				Date Time	7-593 1327				the code used use
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N MEC	;	54816			Conta	1	1				Received by: (Signature)	para	Received by: (Signature)	Received by: (Signature)	INC. 64-3014 ico 87401 5	
CHAIN OF CUSIODY RECORD	1.7.7. E	/			<u>•</u> ×	٦	7	·					Receiv	Receiv	ENVIROTECH INC. 5796 U.S. Highway 64:3014 Farmington, New Mexico 87401 (505) 632:0615	
JO Z	Ø	"8" "8"			Sample Matrix	8052	SOFE				e Time	1327			ENVIII 5796 U.S Farmingto	
CHA		2 (Sas (	ly Tape No.		Jec.						Date	7693				
	Project Location	Harhin	Chain of Custody Tape No.		Lab Number	5642	5643									
					Sample Time	1005	1035									
		Q		in	Sample Date	78 42	7-873					dus				
	Client/Project Name	Anos, 92140	Sampler: (Signature)	Kohertman	Sample No./ Identification	4011,45	5016 65				Relinquished by: (Signature)	B. am C	Relinquished by: (Signature)	Relinquished by: (Signature)		

CLIENT \_ AMOCO

#### BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199

LOCATION NE: C4913

C.D.C. ND: 5646

FIFLD	REPORT:	LANDFARM	/COMPOST	PILE	CLOSURE	VERIFICATION
1 11111	TULLI OIVI.	THE TT ! TO T TITLET!	/			

LOCATION: NAME: MARTINEZ GC. B WELL #: 1

PITS: COMPR. BLOW

DATE STARTED: 12.4.97

QUAD/UNIT: (L) SEC: Z4 TWP: Z9 N RNG: 10 > PM: NM CNTY: 53 ST: NM

DATE FINISHED: \_

OTP/FOOTAGE: NW/4 SW/4

CONTRACTOR: P45

**ENVIRONMENTAL** SPECIALIST: NV/EP

SOIL REMEDIATION:

REMEDIATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: \_733

LAND USE:

BANGE

LIFT DEPTH (ft): NA

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: <1001 NEAREST WATER SOURCE: >10001 NEAREST SURFACE WATER: <10001

NMOCI PANKING SCORE: 20 NMOCD TPH CLOSURE STD: 100 PPM

SOIL IS A DRY DARK YELLOW WI LIGHT BROWN SILTY SAND

NO STAIN OR HE OFOR

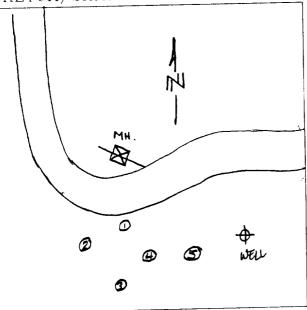
TOOK 5 PT COMP. FOR LAB ANALYSIS,

LNCERTAIN IF SOIL SAMPLE WAS MATERIAL ORIGIMALY LANDFARMED.

FIELD 418.1 CALCULATIONS

					L T	-LD 410	.1 01	1200					
SAMP.	TIME	SAMPLE	1.D.	LAB	No:	WEIGHT	(g)	mL.	FREON	DILUTION	READING	CALC.	ppm
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SKETCH/SAMPLE LOCATIONS



CALLOUT: NA

TRAVEL NOTES:

OVM RESULTS LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF.1	0.0	LF.1	8015	1245	40
			)EC	国小	A 信IU
		n	GEB GEB	1 6	1999
		<u>u</u>	H 3CI	·	1000

SCALE FT OIL COM. DIV.

ONSITE: 12 4 97 1245



#### EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	12-09-97
Laboratory Number:	C650	Date Sampled:	12-04-97
Chain of Custody No:	5646	Date Received:	12-05-97
Sample Matrix:	Soil	Date Extracted:	12-08-97
Preservative:	Cool	Date Analyzed:	12-08-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	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:

Martinez GC B #1 Landfarm. 5 Pt. Composite.

Analyst Queen

Stacy W Sendler.

Review

	Sample No./ Sample Sample Lab Number Identification  LF-1 1/1/97 /245 CL650  LF-1 1/1/97 /245 CL650  AMICTINEZ Chain of Custody Tape No. Chain of Cu
--	--



# EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

#### **Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	12-08-PM-TPH QA/QC	Date Reported:	12-09-97
Laboratory Number:	C649	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-08-97
Condition:	N/A	Analysis Requested:	TPH

Calibration	I-Cal Date	I-Cal RF.	C-Cal RF: 1	% Difference	Accept, Range
Gasoline Range C5 - C10	10-28-97	2.9715E-04	3.0698E-04	3.31%	0 - 15%
Diesel Range C10 - C28	10-28-97	2.9167E-04	3.0288E-04	3.84%	0 - 15%

Blank Conc. (mg/L - mg/Kg) Concentration Detection Limit				
Gasoline Range C5 - C10	ND	0.2		
Diesel Range C10 - C28	ND	0.1		
Total Petroleum Hydrocarbons	ND	0.2		

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	
Gasoline Range C5 - C10	ND	250	249	100%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Wast

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples C649 - C656.

nalvst

Stacy W Sendler
Review