1R - 202

REPORTS

DATE:

4/30/98



Remediation/Cleanup Closure Report

Petroleum Production Management Inc. Crossroads, New Mexico State "BD" Pit

RECEIVER

APR 3 U 1998

OFFICE

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

State of New Mexico Energy, Minerals and Natural Resources Department

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

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

(Revised 3/9/94

PIT REMEDIATION AND CLOSURE REPORT

Operator: PAMIT	Telephone: 875-2478
Address: P.O. Box 957 CROSSE	BADS NM
Facility Or: PPMI. State	DB
Location: Unit or Otr/Otr Sec Sély SE 14	sec 34 r 13 r 32 county LEA
Pit Type: Separator Dehydrator	Other OVER FROW PIT
Land Type: BLM , State , Fee	, Other
Pit Location: Pit dimensions: leng (Attach diagram) Reference: wellhead Footage from reference	gth $115'$, width $60'$, depth $4'$ X, other
	V Alter Dames V
Direction from refer	of West South
Depth To Ground Water:	Less than 50 feet (20 points)
contaminants to seasonal high water elevation of ground water)	Greater than 100 feet (0 Points) O
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than	OCUNNESS No (0 points)
1000 Lest from all other water sources;	
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)

Date Remediation Sta	arted: 3-26-96 Date Completed: 3-27-96
Remediation Method:	Excavation Approx. cubic yards 1865
(Check all appropriate sections)	Landfarmed V Insitu Bioremediation
	Other
Remediation Location (ie. landfarmed onsite, name and location of offsite facility)	n: OnsiteOffsite
General Description	Of Remedial Action: SEE ATTACHMENT.
Ground Water Encoun	tered: No Ves Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample location PPMI State BO"
attach sample results	
and diagram of sample	Sample depth $\frac{4i/2}{2}$
and diagram of sample locations and depths)	Sample depth $\frac{41/2}{5}$ Sample date $3-26-96$ Sample time 3^{PM}
and diagram of sample locations and depths)	Sample depth $\frac{4i/2}{2}$ Sample date $3-26-96$ Sample time 3^{PM} Sample Results
and diagram of sample locations and depths)	Sample depth $\frac{41/2}{2}$ Sample date $3-26-96$ Sample time 3^{em} Sample Results Benzene(ppm) $\frac{60050}{2}$
and diagram of sample locations and depths)	Sample depth $\frac{4!/2!}{3}$ Sample date $3-26-96$ Sample time 3^{PM} Sample Results Benzene(ppm) $\frac{80050}{5}$ Total BTEX(ppm) $\frac{80050}{5}$
and diagram of sample locations and depths)	Sample depth $\frac{41/2}{2}$ Sample date $3-26-96$ Sample time 3^{PM} Sample Results Benzene(ppm) 60050 Total BTEX(ppm) 60050 Field headspace(ppm)
and diagram of sample locations and depths)	Sample depth $4\frac{4}{2}$ Sample date $3-26-94$ Sample time 3^{PM} Sample Results Benzene(ppm) 60050 Total BTEX(ppm) 60050 Field headspace(ppm) TPH $1070 Rem$
and diagram of sample locations and depths) Ground Water Sample	Sample depth $4i/2i$ Sample date 3-26-96 Sample time 3 ^{em} Sample Results Benzene(ppm) 60050 Total BTEX(ppm) 60050 Field headspace(ppm) TPH 1070 Rem Yes No $$ (If yes, attach sample results)
and diagram of sample locations and depths) Ground Water Sample I HEREBY CERTIFY TH OF MY KNOWLEDGE AND	Sample depth $4i/2$ Sample date $3-26-96$ Sample time 3^{em} Sample Results Benzene(ppm) 60050 Total BTEX(ppm) 60050 Field headspace(ppm) TPH 1070 Rem Ves No $$ (If yes, attach sample results) WAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST D BELIEF
and diagram of sample locations and depths) Ground Water Sample I HEREBY CERTIFY TH OF MY KNOWLEDGE AND DATE 3- 15 MC	Sample depth $\frac{41/2}{3-36-96}$ Sample date $3-36-96$ Sample time 3^{20} Sample Results Benzene(ppm) 60050 Total BTEX(ppm) 60050 Field headspace(ppm) TPH 1070 Rem Set Yes No 10000 (If yes, attach sample results) HAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST DELIEF

Safety & Environmental Solutions, Inc.

PIT REMEDIATION AND CLOSURE REPORT

PETROLEUM PRODUCTION MANAGEMENT, INC. STATE "BD" PIT

Purpose

To purpose of this document is to request closure on an old overflow pit located in Lea County, New Mexico.

Background

This is an old pit that has not been used in several years. It was used as an overflow for produced water.

• • • •

Action Plan

The heavily affected soil will excavated and placed on the side of the pit. The pit area will be tested both vertical and horizontally. The vertical sample will be done with backhoe and if needed a boring machine will be used. The sample will be tested for BTEX, TPH and Chlorides. The spoils piles will be remediated with any remaining affected soil onsite, and blended to regulatory guidelines established in the **"Unlined Surface Impoundment Closure Guidelines"** *New Mexico Oil Conservation Division* - February, 1993. The excavation will be backfilled and the site restored to original grade. This blending of the residual affected soil will:

1. Aid in the aeration of the residual affected soil.

- 2. Reduce the TPH to a level unlikely to move downward and contaminate additional soils.
- 3. Add indigenous microbes to the residual affected soil in order to biodegrade the residual hydrocarbons in a shorter length of time.

The excavation to obtain additional media will be performed with a bulldozer, backhoe, grader or combination thereof, with a minimum of disturbance to the existing location. Safety & Environmental Solutions, Inc. will verify that the extent of contamination by performing THP field tests using the Hanby soil extraction method conducted on soil samples from the area.

Soil samples will be obtained from the bottom and sides of the excavation as the remediation is performed. Once acceptable levels are achieved, the soil will be folded back into the excavation, blending it to assure replacement is within New Mexico Oil Conservation Division guidelines for leaks, spills, and releases. TPH field tests will be conducted on the blended soil. These tests results will verify that the soil is minimally affected (New Mexico Oil Conservation Divisions guidelines for leaks, spills, and release), and the appropriate documents will be filed requesting closure.

Site Safety

There are a number of health and safety concerns associated with the excavation of trenches at these types of sites. Compliance with the following OSHA standards will be required as necessary at the site:

- Trenching and Shoring 29 CFR 1926.650 653
- Hazwoper/Atmospheric Testing 29 CFR 1910.120
- Respiratory Protection 29 CFR 1910.134
- Personal Protective Equipment 29 CFR 1910.132 140

Standard Operating Procedures for Closure Of Pits

Standard Operating Procedures (SOP's) were obtained from the "Unlined Surface Impoundment Closure Guidelines" New Mexico Oil Conservation Division - February, 1993.

Soil Survey

This area is Kimbrough-Lea complex soil. About 50% Kimbrough gravelly loam and 25% Lea loam, and in few areas 40% Kimbrough soils and 40% Lea soils. It is 20% to 25% inclusions of Stegall, Arvana, Slaughter, and Sharvana soils. The Kimbrough soil is gently sloping and is nearly level and is in swales between ridges.

The soils in this complex are used as range, wildlife, habitat, and recreational areas. They are also a source of caliche for construction.

Water Survey

Sam Salazar of the State Engineer's Office in Santa Fe, New Mexico stated that the depth to ground water in Section 34 T13N R32E in Lea County, was approximately 145 feet.

Work performed

On March 20, 1996 pictures were taken of location. Samples were taken from the pit at the points indicated on Figure A-1 at 1:30 P.M. witnessed by Gary Cothran of PPMI. A composite of this sample was sent to Cardinal Laboratories TPH, BTEX, and Chlorides testing. The results of the lab tests show TPH at 1989 ppm and BTEX under .001 ppm with the exception of Orthoxylene whose level was .041 ppm. The chloride level was 520.0 ppm. (See Figure A-3 A, B & C) Also field test was performed using Hanby Field test kit on spoils pile to determine TPH level. (See Figure A-2) The composite sample from the pit was sent to Trace Analysis to the lab for testing of TPH and BTEX. The results of the tests showed TPH of 1,070 ppm and BTEX of < 50 ppm.(See Figure A-5)

On March 26, 1996 SES personnel arrived at Saunders Plant at 7:15 A.M. and met the excavation equipment. Excavation was started at 7:45 A.M. by moving the spoils pile to a clear off area which was used as blending site. The spoil pile was tested with Hanby test kit before being moved, the results were less than 5% TPH.(Figure A-2) The pit wall was tested and found to be below 5% TPH and therefore could be used for blending. Excavation was started on the South side and was pushed to the West to blending area. This process was done through out the pit area and the day, field testing was performed at various levels. First level TPH was 1989 ppm per lab results. (Figure A-3-A) The second level was 850 ppm TPH at a depth of 3' with the field test kit. The third level was 500 ppm TPH at a depth of 4' with the field test kit. (Figure A-4)

On March 27, 1996, blending was continued most of the morning. At 11:00 A.M. the dozer was released and the maintainer stayed to finish the job. Appx.2500 cubic yards of dirt was used to complete the process. A final composite sample was taken from the sides and bottom and sent to the lab. Field results were TPH 650 ppm (Photos C-D) and lab results were 1070 ppm. (Figure A-5)

On April 9, 1996 a hand auger was used to extract a sample from the middle of the pit site at a depth of 5'. This sample was sent to Trace Analysis for testing. The results of the **8015 TPH Diesel Range Test** was 505 ppm.

Apr-19-96 03:31P

6701 Aberdeen Avenue Lubbock, Texas 79424 806 • 794 • 1296 FAX 806 • 794 • 1298

ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC. Attention: Pat Cleer P. O. Box 1613 Hobbs, NM 88241

April 19, 1996 Receiving Date: 04/10/96 Sample Type: Soil Project No: Pit Project Location: Lea County Extraction Date: 04/15/96 Analysis Date: 04/15/96 Sampling Date: 04/08/96 Sample Condition: Intact & Coo Sample Received by: SH Project Name: "BD"

TPH

TA #	FIELD CODE	Diesel Range (mg/kg)	
T50800	Center of Pit Bottom 5'	505	<u></u>
QC	Quality Control	247	

RI	PD	20
8	Extraction Accuracy	111
8	Instrument Accuracy	97

METHODS: EPA 8015 Modified. DIESEL SPIKE: 100 mg/kg. DIESEL QC: 250 mg/L TRPHC.

Director, Dr. Blair Leftwich Director, Dr. Bruce McDonell

4-19-96

DATE

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Submit 3 Copies to Appropriate District Office	State of New Mexico Energy, Minerals and Natural Resources Department	Form C-103 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVATION DIVISION 310 Old Santa Fe Trail, Room 206	WELL API NO.
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexico 87503	5. Indicate Type of Lease
DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410		6. State Oil & Gas Lease No.
SUNDRY NOT	ICES AND REPORTS ON WELLS	
(DO NOT USE THIS FORM FOR PR DIFFERENT RESE (FORM C	OPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A RVOIR. USE "APPLICATION FOR PERMIT" >-101) FOR SUCH PROPOSALS.)	7. Lease Name or Unit Agreement Name
1. Type of Well: OL GAS WELL WELL	other over-flows Pit	State BB
2. Name of Operator Ro	duction Management Trac	8. Well No.
3. Address of Operator P.O. BOX 957	Crossroads AM.	9. Pool name or Wildcat
4. Well Location	Ford Proces 73 and a start of the start of t	The Dam The Line
	Feet From The Line and	Feel From The Line
Section	Township Range J 10. Elevation (Show whether DF, RKB, RT, GR, etc.)	NMPM County
11. Check	Appropriate Box to Indicate Nature of Notice, R	leport, or Other Data
	TENTION TO: SUE	
	CHANGE PLANS	3 OPNS. L PLUG AND ABANDONMENT L
PULL OR ALTER CASING		
OTHER:	OTHER:	
 Describe Proposed or Completed Oper work) SEE RULE 1103. 	ations (Clearly state all pertinent details, and give pertinent dates, inc	luding estimated date of starting any proposed
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To check to	r vertical extent of	in farmation "
use of back	Love and if needed bo	
And then sn	-plement Attac RECEIVE	RECEIVE
	MAR 1 8 1998	MAR
	ULL AUBUS	ULUTIN
		OFEICE
	and complete to the best of my knowledge and belief.	Nerintenlight 3-15-96
TYPE OR PRINT NAME GAR	yT-Cothraw	TELEPHIONE NO. 675-2476
(This space for State Use)	7	
APPROVED BY JAMAR LEN	ENUN ENGL	- MMech 3/22/96
CONDITIONS OF APPROVAL, IF ANY: 11	OCD APPROVAL CONDITIONS	FOR REFA EXEMPT
	UNLINED PIT CLOSUMES".	AP

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Safety & Environmental Solutions, Inc.

March 15, 1996

Work Plan Petroleum Production Management Inc Pit Closure and Remediation (Sec. 34T-13-R32) State DB

Purpose

The purpose of this work plan is to present a systematic approach to the excavation, and remediation resulting from an old overflow pit located in Lea County, New Mexico.

Background

This is an old pit that has not been used in several years. It was used as an overflow for produced water.

Action Plan

The heavily affected soil will excavated and placed on the side of the pit. The pit area will be tested both vertical and horizontally. The vertical sample will be done with backhole and if needed a boring machine will be used. The sample will be tested for Btex, TPH and clorides. The spoils piles will be remediated with any remaining affected soil onsite, and blended to 5000 ppm or lower accroding to New Mexico Oil Conservation guidelines for remediation of leaks, spills, and releases. The excavation will be backfilled and the site restored to original grade. This blending of the residual affected soil will:

1. Aid in the aeration of the residual affected soil.

RECEIVET MAR 1 8 1996

- 2. Reduce the TPH to a level unlikely to move downward and contaminate additional soils.
- 3. Add indigenous microbes to the residual affected soil in order to biodegrade the residual hydrocarbons in a shorter length of time.

Safety & Environmental Solutions, Inc. 703 E. Clinton Hobbs, New Mexico 88240 (505)397-0510

The excavation to obtain additional media will be performed with a bulldozer, backhoe, grader or combination thereof, with a minimum of disturbance to the existing location. Safety & Environmental Solutions, Inc. will verify that the extent of contamination by performing THP field tests using the Hanby soil extraction method conducted on soil samples from the area.

Soil samples will be obtained from the bottom and sides of the excavation as the remediation is performed. Once acceptable levels are achieved, the soil will be folded back into the excavation, blending it to assure replacement is wihin New Mexico Oil Conservation Division guidelines for leaks, spills, and releases. TPH field tests will be conducted on the blended soil. These tests results will verify that the soil is minimally affected (New Mexico Oil Conservation Divisions guidelines for leaks, spills, and release), and the appropriate documents will be filed requesting closure.

Site Safety

There are a number of health and safety concerns associated with the excavation of trenches at these types of sites. Compliance with the following OSHA standards will be required as necessary at the site:

- Trenching and Shoring 29 CFR 1926.650 653
- Hazwoper/Atmospheric Testing 29 CFR 1910.120
- Respiratory Protection 29 CFR 1910.134
- Personal Protective Equipment 29 CFR 1910.132 140

This general type of plan has been verbally approved by the Bureau of Land Management and the Oil Conservation Division in Lea County.

Standard Operating Procedures for Auger Sampling (if necessary)

Standard operating procedures (SOPs) were obtained from the Environmental Protection Agency, 1984, Characterization of Hazardous Waste Sites - A Methods Manual: Vol II. Available sampling methods. EPA/600/4-84-076.

This system consists of an auger bit, a series of drill rods, and a "T" handle. The auger bit is used to bore a hole to the desired sampling depth. Since this soil is expected to be of various types, the samples will be taken directly from the auger itself at the specified depths.

Safety & Environmental Solutions, Inc. 703 E. Clinton Hobbs, New Mexico 88240,

Procedure for Use

- 1. Clear the area to be sampled of any surface debris.
- 2. Begin drilling, periodically removing accumulated soils. This prevents accidentally brushing loose material back down the borehole when removing the auger or adding drill rods.
- 3. After reaching desired depth, slowly and carefully remove the auger, and collect sample from the auger.
- 4. Place sample in sample container. Check that a Teflon liner is present in the cap if required. Secure the cap tightly.
- 5. Label the sample container with appropriate sample tag. Complete all chain-of-custody forms and record in the field log book.
- 6. Perform field test or alternatively refrigerate and transport to laboratory.
- 7. Decontaminate equipment after use and between samples.

Standard Operating Procedures for Excavation Sampling

- 1. Collect undisturbed sample from the side of the excavation at the desired depth.
- 2. Follow steps 4-7 in the preceding instructions.

Standard Operating Procedures for Closure Of Pits

Standard Operating Procedures (SOP's) were obtained from the New Mexico Oil Conservation Division "Guidelines for Unlined Surface Impoundment Closure" New Mexico Oil Conservation Division - Febuary, 1993.

Safety & Environmental Solutions, Inc. 703 E. Clinton Hobbs, New Mexico 88240 (505)397-0510

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OCD APPROVAL CONDITIONS FOR RCRA EXEMPT UNLINED PIT CLOSURES

- 1. The following closure actions will be performed in accordance with OCD's February 1993 "SURFACE IMPOUNDMENT CLOSURE GUIDELINES":
 - a. Vertical and horizontal extent of contamination will be determined either prior to, during or upon completion of remedial actions.
 - b. Contaminated soils will be remediated to the OCD's recommended levels or a risk assessment will be provided which shows that an alternate cleanup level is protective of surface water, ground water, human health and the environment.
 - c. Final soil contaminant concentrations will be determined upon completion of remedial actions.
 - d. Soil samples for verification of completion of remedial actions will be sampled and analyzed for benzene, toluene, ethylbenzene, xylene and total petroleum hydrocarbons.
- 2. All wastes removed from a specific site will be disposed of at an OCD approved facility.
- 3. The OCD Santa Fe Office's Environmental Bureau Chief and the OCD Hobbs District Office will be notified within 24 hours of the discovery of ground water contamination related to a pit closure.
- 4. Upon completion of all closure activities, a completed OCD "Pit Remediation and Closure Report" form containing the results of all pit closure and soil remediation activities will be submitted to the OCD for approval. The report will include the concentrations and application rates of any materials or additives used to enhance bioremediation of the contaminants and the final concentrations of any soils landfarmed onsite or the final disposition of soils removed from the site . To simplify the approval process, the OCD requests that the final pit closure reports be submitted only upon completion of all closure activities including onsite remediation or landfarming of contaminated soils.
- 5. All original documents will be submitted to the OCD Hobbs Office for approval with copies provided to the OCD Santa Fe Office.
- 6. OCD approval does not relieve you of liability should closure activities determine that contamination exists which is beyond the scope of the work plan or if the closure activities fail to adequately remediate contamination related to your activities. In addition, OCD approval does not relieve you of responsibility for compliance with other federal, state or local laws and regulations.







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

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

PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

TPH/BTEX ANALYSIS REPORT

Company: Address: City, State: Project Name: Location:	P.P.M.I. PO Box 957 Crossroads, NM PPMI ST "BD"	88114	•	·	Date: Lab # :	03/25/96 H2462
Sampled by:	PC			Date:	03/21/96	
Analyzed by:	SW			Date:	03'/23'/96	
Sample Type:	Soil		Sample	Condition: Units:	intact mg/kg	

****	******	*******	********	*******	*******	*******	*******	*******
Samp #	Field Code	TRPHC	BENZENE	TOLUENE	ETHYL BENZENE	PARA- XYLENE	META- XYLENE	ORTHO- XYLENE
1	State "BD"	1989	<0.001	<0.001	<0.001	<0.001	<0.001	0.041

<i>QC Recovery</i>	85	923.4	918.6	905.5	787.2	874.8	933.3
QC Spike	88.0	884.0	865.0	853.0	858.0	844.0	866.0
Accuracy	96.6%	104.5%	106.2%	106.1	91.7%	103.6%	107.8%
Blank	***	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
DIANK		1.0.001	10.001	10.001	1-0.001	1 < 0 . 001	10.001

GAS CHROMOTOGRAPHY; INFRARED SPECTROSCOPY EPA_SW-846; 8020, 418.1, 3510, 3540 or 3550 Methods

Sharon W ams

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PLEASE NOTE: Liability and Damages. 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.

FIGURE A-3-a



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PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

CHEMICAL ANALYSIS OF SOIL

P.P.M.I. PO Box 957 Crossroads, NM 88114 Company : Lab #: H2462 Address : Date Received: 01/23/96 City/St. : Proj.Name : PPMI Date Analyzed: 03/23/96 Location : ST. soil "BD" Sample type Sample 1 Sample Condition: : intact State "BD" : Units: mg/kg

PARAMETER

SAMPLE 1

Chloride

520.0

avon Williams

Sharon Williams

PLEASE NOTE: Liability and Damages. 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.

FIGURE A-3-b







Excavation 80' X 135' approx. 4' deep 1600 cu yd

Injection Well

PETROLEUM PRODUCTION MANAGEMENT, INC. CROSSROADS, NEW MEXICO Figure A-4 STATE "BD" PIT SITE BOTTOM VERIFICATION

Safety & Environmental Solutions, Inc.

April 1, 1996 Receiving Date Sample Type: Project No: 0	6/U Auerdeen Ave :: 03/29/96 Soil	ANALYTICAL RESUR ANALYTICAL RESUR SAFETY & ENVIRON Attention: Pat P. O. Box 1613	9424 84 JTS FOR MENTAL SOI Cleer	06•794•1296 Lution, int		/54•1298 Prep Date: unalysis D iampling D	03/29/96 ate: 03/29/96 ate: NA lition: Intact & Cc
Project Locati TAf	on: State "BD" Field Code	Hobbs, NM 88241 TRPHC	BENZENE	TOLUENE	ETHYL- BENZENE	roject Nau M,P,O XYLENE	eived by: SH me: PPMI Pit TOTAL BTEX
T50274 I	PPMI Pit 001 Quality Control	1,070,000	05> 79	<pre>> </pre>	<50	<pre><code 161<="" pre=""></code></pre>	
						•	
Reporting Limit	L	10,000	50	50	50	50	
RPD % Extraction Ac % Instrument Ac	ccuracy ccuracy	0 108	9 9 8 9 8	50 E E	9 9 8	6 G 0 G	·
METHODS: EPA S BTEX SPIKE: TRPHC SPIKE: 2 TRPHC QC: 100,	8# 846-8020, 5030, 3550 2,500 ug/kg BTEX. 250,000 ug/kg TRPHC.	HICH LEVEL; EPA 418 BTEX QC: 100 ug/L	3.1. BTEX.				Y
10	irector. Dr. Blair Left		I	4-1	- 96		

FIGURE A-5











3-20,-96 PPMI "BO" P.+ 115 pm April al elecation pic Too Locking east North 11 Huce •• ank looking North 1 11 -100-THERE ARE PLACES IN Pit Seems to 12 10 noe and Comp Pm Kack ad 1 NGC An Savery then due to.g. - sol Sa ل م +-6æ2'8" o= Sanole Spo verticle ext These dephts were θ spo.ly ' below pit bot AREA est holes, but Samples in Contained Took (105 is is a sollow nolined lote: pit used for and our flow. Has not been used in KEARS PET Do. Man.

PPMJ "BO" 3-26-96 115'0 0 60 80' Ø 0 135 1840 appx cubic yes. E for Bottom · Composite Si Hole amp AUG. Depht 41/2' 115 orginal P:t 60 Deill 160 APPX Affez 67 abicyes 30 AHX Project AREA USON for 115 160 lorg. Pit 240 360' 単い

- * -

3-26-96 715/An ARRived e Plant whiting for Globe Canst. Unlard e PPMJ ST. BO", orealog Busing Tester Pit wall less than 5000 ppon 941 Found of all and and 5000 ppon 745/Am Found of drilling Pit usekal on 130/PM Took Pictores of Botton and such of P.t. Got diret Sample, testal 23/24 STARTOS Bitting festal Blonder dikt back into Rit ARDA. 493 HEAded IN 3-27-96 739/m Continue Blending Process Sustan TESTER Black ugly dirt with water usephanby it showed TPH 850 PPM 11AD Cut Dozer Loose 1230/Pm. All nost Finished More Appx. 13/pm Took Closing Pictures From SAMK AMER AS BEFORE 200/m TPit Compile GOPPM .