# PIT REMED. PLAN AND CLOSURE

## REPORTS

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

January 15, 1997

POST OFFICE BOX 1980 HOBBS. NEW MEXICO 88241-1980 (505) 393-6161

Howard Hackett Anadarko Petroleum Corporation (APC) P.O. Box 37 Loco Hills, NM 88255

197 JAN 2.

#### Re: E.W. Walden Pit Closure

Dear Mr. Hackett,

The New Mexico Oil Conservation Division (NMOCD) is in receipt of the pit closure report dated 12-03-96 for the above referenced pit located in unit K sec 15-Ts22s-R37e.

The NMOCD hereby approves of the submitted closure plan.

Please be advised that NMOCD approval does not relieve APC of liability should the methods used to contain remaining contaminates pose a future threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve APC of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you require any further assistance concerning this matter please do not hesitate to call (505-393-6161) or write.

Sincerely yours,

Wayne Price-Environmental Engineer

cc: Jerry Sexton-NMOCD District I Supervisor Roger Anderson-NM NMOCD Environmental Bureau Chief, Santa Fe

attachments- cc of file to Santa Fe.

<u>CISTICT I</u> <sup>2</sup> D Bas 1990 Hobbs, NM <u>DISTICT II</u> Traver UD, Arcein, NM 88211 <u>TITT III</u> <sup>1</sup> AU Ro Brizos Ad, Arcei, NM 87410

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State of New Mexico Energy, Minerals and Natural Resources Department

#### OIL CONSERVATION DIVISION 2040 S. PACHECO SANTA FE, NM 87505

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

(Revised 3/9/94)

#### PIT REMEDIATION AND CLOSURE REPORT

Operator: Anad	arko Petroleum Corporati	ion Te	lephone:_	505/677-2	<u>411</u>
Address: PO E	ox 37, Loco Hills, NM 88	3255-0037			
Facility Or: <u>E</u> Well Name	. W. Walden SWD Emergend	cy Overflow 1	Pit		
Location: Unit o	r gtr/gtr Sec <u>UL K</u> Sec <u></u>	<u>15 T 225 R37E</u>	County_1	lea	
Pit Type: Separ	ator Dehydrator Othe	<u>r Earthen l</u>	<u>Pit</u>	. <u> </u>	
Land Type: BLM	, State, Fee <u>X_</u> , C	Other			
(Attach diagram)	Pit dimensions: length 5 Reference: wellhead $X_{-}$ , o	other			<u>6'</u>
	Footage from reference:				
	Direction from reference:	<u>NA</u> Degree		of	
Depth To Ground (Vertical distance contaminants to se high water elevati ground water)	sonal 50	ess than 50 f 5 feat to 99 reater than 1	feet (	10 points)	
	tion Arsa:		Yes ( No	20 points) (0 points)	_0_
n	ce to perennial 20 rs, streams, creeks, Gi	ess than 200 00 feet to 10 reater than 1	000 feet (	(10 points)	
· ·	E	NRKING SCORE	(TOTAL FO	)INTS):	10

Date Remediation St	artad: 07-26-96	Date Completed:	10-05-96
Remediation Method:	Excavation $X$	Approx. cubic yards	264
(Check all appropriate sections)	Landfarmed X	Insitu Bioremediatio:	n <u>NA</u>
	Other NA		
	· <u> </u>		
Remediation Locatio	a: Onsite <u>NA</u> Off	site Environmental P	lus, Inc.
(is. landfarmed onsite, name and location of			14, T22S, R37E,
offsite facility)		Lea County, New	
_		: Drilled test hole	
		<u>every 5' to a total d</u>	
Hauled concentrate	ed Hydro-Carbons to	o approved land farm.	Coned up pit
bottom and install	led 12 Mil polyving	yl plastic sheeting.	Hauled in
clean soil and cov	vered plastic with	3' of soil, crowning	up soil in
the middle of pit.			
Ground Water Encour	tered: No X	Yes Depth	
Final Pit: Closure Sampling: (if multiple samples, attach sample results	location (Exh	See attached sheet sh ibit #1).	owing
Closure Sampling: (if multiple samples,	location (Exh: Sample depth 20	See attached sheet sh ibit #1).	
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	location (Exh: Sample depth20 Sample date07-2	See attached sheet sh ibit #1). 26-96 Sample tim	ne NA
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	location (Exh: Sample depth20 Sample date07-2 Sample Results	See attached sheet sh ibit #1). 26-96 Sample tim	
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	location (Exh: Sample depth20 Sample date07-2	See attached sheet sh ibit #1). 26-96 Sample tim	ne NA
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	location (Exh: Sample depth20 Sample date07-2 Sample Results	See attached sheet sh ibit #1). 26-96 Sample tin	ne NA
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	location (Exh: Sample depth20 Sample date07-2 Sample Results Benzene(ppm) Total BTEX(pp	See attached sheet sh ibit #1). 26-96 Sample tin	ne NA
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	location (Exh: Sample depth20 Sample date07-2 Sample Results Benzene(ppm) Total BTEX(pp	See attached sheet sh ibit #1). 26-96 Sample tim NA MA pm) NA	ne <u>NA</u> 31891011727373777
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)	location (Exh: Sample depth20 Sample date07-2 Sample Results Benzene(ppm) Total BTEX(pp Field headspa TPHSee_Exh	See attached sheet sh ibit #1). 26-96 Sample tim NA MA pm) NA	ne NA 3189101172737375761
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Ground Water Sample	location (Exh: Sample depth20 Sample date07-2 Sample date07-2 Sample Results Benzene(ppm) Total BTEX(pp Field headspa TPHSee Exh Set Yes No _2 HAT THE INFORMATION	See attached sheet sh ibit #1). 26-96 Sample tim NA pm) NA ace(ppm) NA hibit #2	ne NA 18910117273 N N N N N N N N N N N N N N N N N N N
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Ground Water Sample I HEREBY CERTIFY T	location (Exh: Sample depth20 Sample date07-2 Sample date07-2 Sample Results Benzene(ppm) Total BTEX(pp Field headspa TPHSee Exh Set Yes No _2 HAT THE INFORMATION	See attached sheet sh ibit #1). 26-96 Sample tim NA pm) NA ace(ppm) NA hibit #2 X (If yes, attach sample time) ABOVE IS TRUE AND COM	ple results)

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Submit 3 Copies to Appropriate District Office		New Mexico Jatural Resources Department	Form C-103 Revised 1-1-89		
<u>DISTRICT I</u> P.O. Bax 1980, Hobbs, NM 88240	P.O.	ATION DIVISION Box 2088	WELL API NO. NA		
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New	Mexico 87504-2088	5. Indicate Type of Lease STATE FEE		
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410			6. State Oil & Gas Lease No. NA		
SUNDRY NOT	ICES AND REPORTS	ON WELLS			
( DO NOT USE THIS FORM FOR PR DIFFERENT RESE		DEEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name		
1. Type of Well: OE OL WELL OAS	OTHER	Overflow Pit	E. W. Walden		
2 Name of Operator Anadarko Petroleum	Corporation	000817	1. Well No. NA		
3. Address of Operator PO BOX 37, LOCO Hi	lls, NM 88255		9. Pool name or Wildcat NA		
4. Well Location See Exhib Unit Letter:	)it #1 Feet From The	Line and	Feet From The		
Section 15	Township 22S	Range 37E	NMPM Lea Co		
		w whether DF, RKB, RT, GR, etc.)			
ERFORM REMEDIAL WORK	· · · · · · · · · · · · · · · · · · ·	N REMEDIAL WORK COMMENCE DRILLIN CASING TEST AND C OTHER:			
<u>SEE ATTA</u>	CHMENTS		CO UNDERS.		
			DEC 0 3 1996		
			RECEIVED		
I hereby certify that the information above in the SIGNATURE HOWARD HAC	Tacket -	mindge and beild. The Field For	DAIE		
24.2 V.O	Tacket -	•	сеman 12-03-9 505-677-2411 тецерноме мо.		
SIGNATURE HOWARD Hac	Tacket -	•	505-677-241		

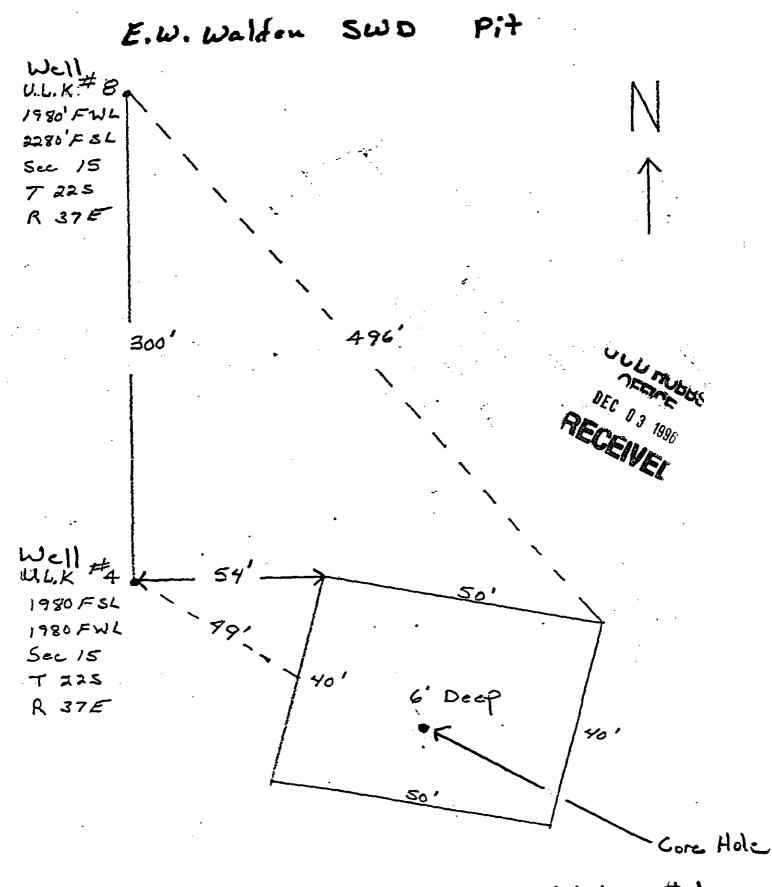
ANADARKO PETROLEUM CORPORATION - 1 LOVINGTON HWY. • P. O. BOX 37 • LOCO HILLS, 48255-0037 • (505) 677-2411 • FAX (505) 677-2414



Subsequent Report - E. W. Walden Lease Pit Closure 10-27-96

Anadarko Petroleum Corporation has closed the emergency overflow pit located at the waterplant on the E. W. Walden Lease as per the Notice of Intent filed with the Hobbs NMOCD office on 8-22-96. The pit location is shown on exhibit 1. Soil sampling was done on this pit by coring as shown on exhibit 2. The bore hole was then plugged to surface with a cement and bentonite mixture. The core sample test results are also shown on exhibit 2. Anadarko went in and removed all the soil that was heavily contaminated with hydrocarbons and hauled this soil to Environmental Plus, Inc. which is an approved NMOCD Surface Waste Management Facility. There was 264 yards of contaminated soil hauled from this pit as shown on exhibits 3 & 4. Then the pit was contoured to slope in a dome away from the center and a 12 mil polyvinyl plastic sheeting was placed over the pit bottom. This is designed to direct rainwater away from the pit and not allow percolation of rainwater through the remaining hydrocarbon affected soil. The pit was then backfilled with clean soil and recontoured to the original surface grade. There are pictures, as shown in exhibits 5 & 6, of the pit before digging, during digging, before liner placement, after liner placement and completion of backfilling. A Hobbs' NMOCD field inspector did inspect this pit before we placed the liner and backfilled.

DEC 0 3 1996 RECEIVED



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#### WESTERN ENVIRONMENTAL CONSULTANTS P.O. Box 1816 Hobbs New, Mexico 88240 (505) 392 - 5021 SOIL ANALYSIS REPORT

DATE: 7\126/96 CLIENT: Anadarko Petro. Corp. SUPERVISOR: A. Hodge Sample Matrix: Soil

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FACILITY: E.W. Walden SWD Pit Test Method: EPA 418.1 Order No.: Mike Braswell

	TPH		DEPTH	LOCATION
SAMPLE NO. 1:	120,650	PPM	Surface	Composite center of pit
SAMPLE NO. 2:	32450	PPM	5'	SB-1 Pit Bottom
SAMPLE NO. 3:	22600	PPM	10'	SB-1 Pit Bottom
· SAMPLE NO. 4:	`    107	PPM	15'	SB-1 Pit Bottom
SAMPLE NO. 5:	12	PPM	20'	SB-1 Pit Bottom
SAMPLE NO. 6:		PPM		
SAMPLE NO. 7:		PPM		
SAMPLE NO. 8:		PPM		•
SAMPLE NO. 9:		PPM		DEPOUS
SAMPLE NO. 10	:	PPM		DEC D 3 1990

ivel COMMENTS: These samples were split spoon samples taken during soil boring of pit bottom. Sample #1 was a surface sample taken at start of boring five foot below grade. All depths shown . on report are five foot below graded.

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AUG-12-96 MON 6:21 Sα Drilling Log Company Drilled for: MRONMENTAL HNADARKO Location E. W. WALDEN SUD Dole Orilled: 7/21/91 A. Hodre Differ Well/Bore Numbers NE 504 SEC-15-T225-R37E REZA Longin of Cosing: Length of Screens  $\nu/q$ Depth of Well: 25' Drilling Melhod AUGER Depin of Boring: D Well Moleriet LEMENI Screen Diameter: N/A Slot Sizet Cosing Diameter: NA Dore Diameter: 74 00 SURFACE OF FIT Sphit . 0 SURFACE OF PIT SPERN 120,650 ppm CEALACHIS / T.T. MATERAL 11 <u>32.450 ppm</u> CALACHIE 10 10 22,600 pp-11 11 CALACTIZ ISAND - 15 15 . 107 DOM RED SAND 11 20 20 R.S. ) SANO ppm ŧŧ : 25 25 TOTAL DEPTH · 30 STARTED DRILLING 5'BELOW SURFACE 30 TPH TEST RON 35 ON SITE WITH 35 ÷ IN PIT BOTTON TEST METHON **4**0 40 2PA: 418.1 45 45 50 50 55 55 .1 ٠. . Ġ0. ULU MUDDE 60 1 عناطعان 65 65 DEC 0 3 1990 RECEIVEL 70 70 . ŻS . 75 80 80 85 . 85 90 <u>. 90</u> 95 . 95 100 - 100 ± F, 105 105

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	ENVIRONMENTAL PLUS, STATE APPROVED LAND FARM	INC.
	PHONE (505) 394-3481 P.O. BOX 969 EUNICE, NEW MEXICO 88231	192 152
COMPANY REPRESENTATIVE	NAME Mike	
SEC TOWNSHIP - RANGE OF TRUCKING COMPANY NAMEZ DRIVER'S SIGNATURE	a LOCATION 1006 CONST. allaling / Angel House	Zay I.A. Fyeatt
	DIL & GAS PRODUCTION	<u>4 ~ &gt;</u>
	ED: YES NO	
COMMENTS:		
NAME OF ATTENDANT ON DU	TY Charlie Bette	
DATE ACCEPTED _ <u>9-36</u>	<u>0-96</u>	

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DEC 0 3 1996 RECEIVEL

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#### GLOBE CONSTRUCTION COMPANY, INC. INVOICE

PHONE: 392-6511 392-6512 Dist Contractor and Oct Field Construction

BOX 779

HOBBS, NEW MEXICO 88240

ANADARKO FRODUCTION COMPANY SOLD TO: F.O. BOX 37 LOCO HILLS. NEW MEXICO 88255-0037

SEPT. 2. 1996 JOB AND 296-081

YOUR ORDER NO.:

DATE:

DATE DESCRIPTION OF WORK PRICE AMOUNT TICKET 51982	LOCATION:	E.W. WALDEN SWD #4	ER NO.: • 1% SERVICE CHARGE AFTER DUE DA					
TICKET 51982         30/96         FURNISH EQUIPHENT. LABOR AND HATERIALS TO LOAD AND HAUL PIT HATERIAL TO LAND FARM:         790 EXCAVATOR	PATE	DESCRIPTION OF WORK		PRICE	AMOUNT			
30/96 FURNISH EQUIPMENT. LABOR AND HATERIALS TO LOAD AND HAUL PIT HATERIAL TO LAND FARM: 700 EXCAVATORW/OPR. 9 HRS. 9 95.00 855.00 DUHP TRUCKS - 12 YD. 36 HRS. 9 46.00 1.656.00 THANK YOU 5.250 Sub Total 2.511.00 131.83 THANK YOU TOTAL 2.642.65 $U_{E_{1}}$ $U_{3}$ $U$								
DUMP TRUCKS - 12 YD. 5.250 THANK YOU 5.250 THANK YOU 5.250 Sub Total 5.250 TOTAL 5.250 TOTAL 5.250 TOTAL 5.250 TOTAL 5.250 TOTAL 5.250 5.2	30/96		TO LOAD AND HAU	-				
5.250 THANK YOU $ \begin{array}{c} 5.250\\ TOTAL \end{array} $ TOTAL $ \begin{array}{c} 131.83\\ \hline 2.642.85\\ \hline 0.3 1996\\ \hline 16001060\\ \hline E_x h:bit + 4 4 \\ \hline 4 \end{array} $			1	-				
5.250 THANK YOU $ \begin{array}{c} 5.250\\ TOTAL \end{array} $ TOTAL $ \begin{array}{c} 131.83\\ \hline 2.642.85\\ \hline 0.3 1996\\ \hline 16001050\\ \hline E_x h:bit + 4 14\\ \hline \end{array} $								
DEC DI 1995 HECCHIVED Exhibit #4			5.250	Sub Total				
Echibit #4		THANK YOU		TOTAL	\$ 2,642.83			
Exhibit #4				· · ·				
Exhibit #4			DEC	1 3 1995				
				IVED				
				Eshibit #	ŧ 14			
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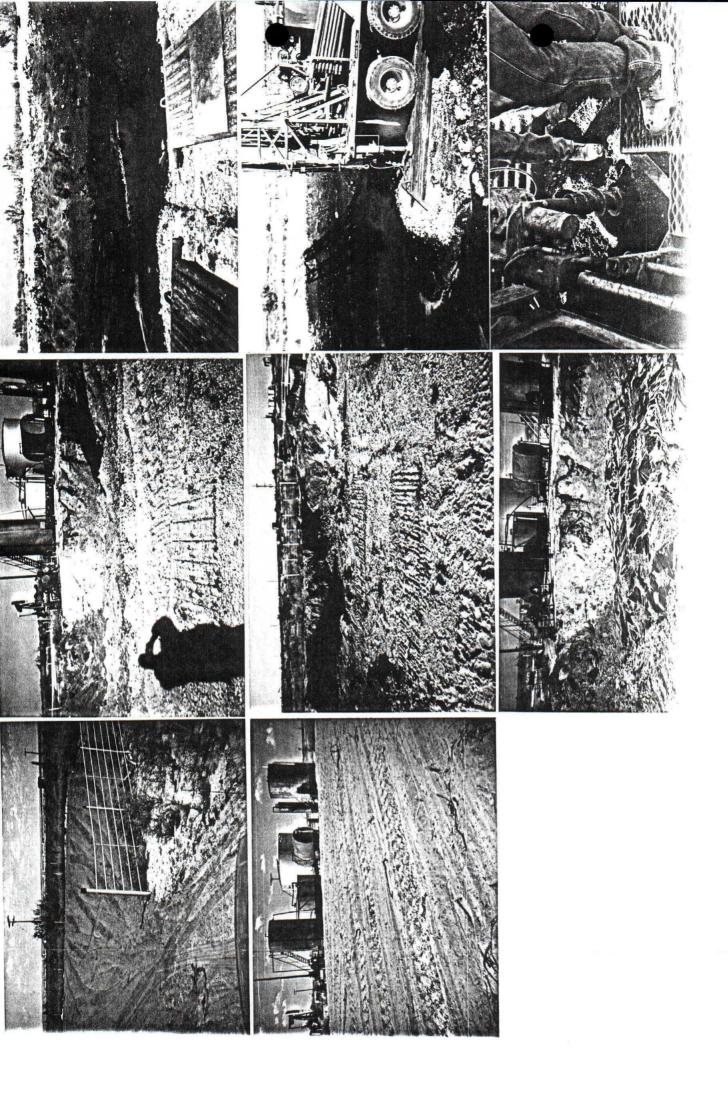
#### WESTERN ENVIRONMENTAL CONSULTANTS P.O. Box 1816 Hobbs, New Mexico 88240 (505) 392-5021

#### **CHEMICAL ANALYSIS REPORT**

DATE: 07/26/96 CLIENT: Anadarko Petro. Corp. SUPERVISOR: Allen Hodge SAMPLE MATRIX: Soil SITE ID: E.W. Walden SWD Pit ORDERED BY: Mike Braswell TEST METHOD: 8020 SAMPLE RECEIVED: Intact on site

Parameter	Value	<u>Units</u>	Test Method
Sample #1 Surface			
Benzene	<0.2	Mg/L	Headspace GC
Toluene	<0.2	Mg/L	8020/EPA
Ethylbenzene	<0.2	Mg/L	
Xylene (OMP)	15.0	Mg/L	
9 # 2 51			
Sample # 2 5'			
Benzene	<0.2	Mg/L	Headspace GC
Toluene	<0.2	Mg/L	8020/EPA
Ethylbenzene	<0.2	Mg/L	
Xylene (OMP)	8.0	Mg/L	
Sample # 3 10'			
Benzene	<0.2	Mg/L	Headspace GC
Toluene	<0.2	Mg/L	8020/EPA
Ethylbenzene	<0.2	Mg/L	
Xylene (OMP)	3.5	Mg/L	
Sample # 4 15'			
Benzene	<0.2	Mg/L	Headspace GC
Toluene	<0.2	Mg/L	8020/EPA
Ethylbenzene	<0.2	Mg/L	A MANU
Xylene (OMP)	<0.2	Mg/L	
		-	
Sample #5 20'			Headspace GC 8020/EPA
Benzene	<0.2	Mg/L	Headspace GC
Toluene	<0.2	Mg/L	8020/EPA
Ethylbenzene	<0.2	Mg/L	
Xylene (OMP)	<0.2	Mg/L	

COMMENTS: These samples were split spoon samples taken during soil boring of pit bottom. Sample # 1 was a surface sample taken at start of boring, five feet below grade. All depths shown on report are five feet below grade.



 State of New Mexico Energy, Minerals and Natural Resources Department

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#### OIL CONSERVATION DIVISION 2040 S. PACHECO SANTA FE, NM 87505

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

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: Anadarko Petroleum Corpor	ration Telephone: 505/677-2411
Address: PO Box 37, Loco Hills, NN	4 88255-0037
Facility Or: E. W. Walden SWD Emerge Well Name	
Location: Unit or Qtr/Qtr Sec <u>UL K</u> s	
Pit Type: Separator Dehydrator (	
Land Type: BLM, State, Fee X	_, Other
(Attach diagram) Reference: wellhead X Footage from reference	
Direction from referen	ca: <u>NA</u> Degrees <u>X</u> East North of West South
Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points) <u>10</u>
	CEIVED
domestic water source, or; less than	EC 0 6 1996 Yes (20 points) No (0 points)
1000 feet from all other water sources; Envir Oil Cor	onmental Bureau aservation Division
Distance To Surface Water: orizontal 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) <u>0</u>
•	RANKING SCORE (TOTAL FOINTS): 10

	······································	<u></u>	
Date Remediation Sta	artad:0	7-26-96	Date Completed: 10-05-96
Remediation Method:	Excavation	<u>X</u>	Approx. cubic yards <u>264</u>
Remediation Method: (Check all appropriate sections)	Landfarmed	<u>x</u>	Insitu Bicremediation <u>NA</u>
	Other	NA	
Remediation Location	n: Onsit	e <u>NA</u> off	site Environmental Plus, Inc.
(ie. landfarmed onsite, name and location of			SW & NW <sup>1</sup> <sub>2</sub> , Sec. 14, T22S, R37E,
offsite facility)	'		Lea County, New Mexico
General Description	Of Remedia	al Action	: Drilled test hole in center of
forenamed pit, tak	ing soil s	samples (	every 5' to a total depth of 20'.
Hauled concentrate	d Hydro-Ca	arbons to	o approved land farm. Coned up pit
bottom and install	ed 12 Mil	polyving	yl plastic sheeting. Hauled in
clean soil and cov	ered plast	tic with	3' of soil, crowning up soil in
the middle of pit.			
Ground Water Encoun	tered:	No X	Yes Depth
Final Pit:	Sample lo	cation S	See attached sheet showing
Final Pit: Closure Sampling:	-	_	See attached sheet showing
Closure Sampling: (if multiple samples, attach sample results	locati	ion (Exhi	ibit #1).
Closure Sampling: (if multiple samples,	locati Sample dep	ion (Exhi	ibit #1).
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	locati Sample dep Sample da	ion (Exhi pth te	ibit #1).
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	locati Sample dan Sample dan Sample Rem	ion (Exhi pth20 te07-2 sults	ibit #1). 26-96Sample timeNA
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	locati Sample dan Sample dan Sample Ren Benza	ion (Exhi pth20 te07-2 sults ene(ppm)	ibit #1). 26-96Sample time
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	locati Sample dan Sample dan Sample Ren Benza Tota	ion (Exhi pth20 te07-2 sults ene(ppm) 1 BTEX(pp	ibit #1). 26-96Sample timeNA NA
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	locati Sample dan Sample dan Sample Ren Benza Tota Fiel	ion (Exhi pth20 te07-2 sults ene(ppm) 1 BTEX(pp d headspa	ibit #1). 26-96 Sample time NA 
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	locati Sample dan Sample dan Sample Ren Benza Tota Fiel	ion (Exhi pth20 te07-2 sults ene(ppm) 1 BTEX(pp	ibit #1). 26-96 Sample time NA 
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)	locati Sample da Sample da Sample Re Benz Tota Fiel TPH	ion (Exhi pth20 te07-2 sults ene(ppm) 1 BTEX(pp d headspa See Exh	ibit #1). 26-96 Sample time NA 
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Ground Water Sample	locati Sample da Sample da Sample Re Benz Tota Fiel TPH	ion (Exhi pth20 te07-2 sults ene(ppm) 1 BTEX(pp d headspa See Exh No _2	ibit #1). 26-96 Sample time NA 
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Ground Water Sample I HEREBY CERTIFY TH	locati Sample da Sample da Sample Re Benz Tota Fiel TPH	ion (Exhi pth20 te07-2 sults ene(ppm) 1 BTEX(pp d headspa See Exh No _2	ibit #1). 26-96 Sample time NA NA NA (NA (If yes, attach sample results) ABOVE IS TRUE AND COMPLETE.TO THE BEST

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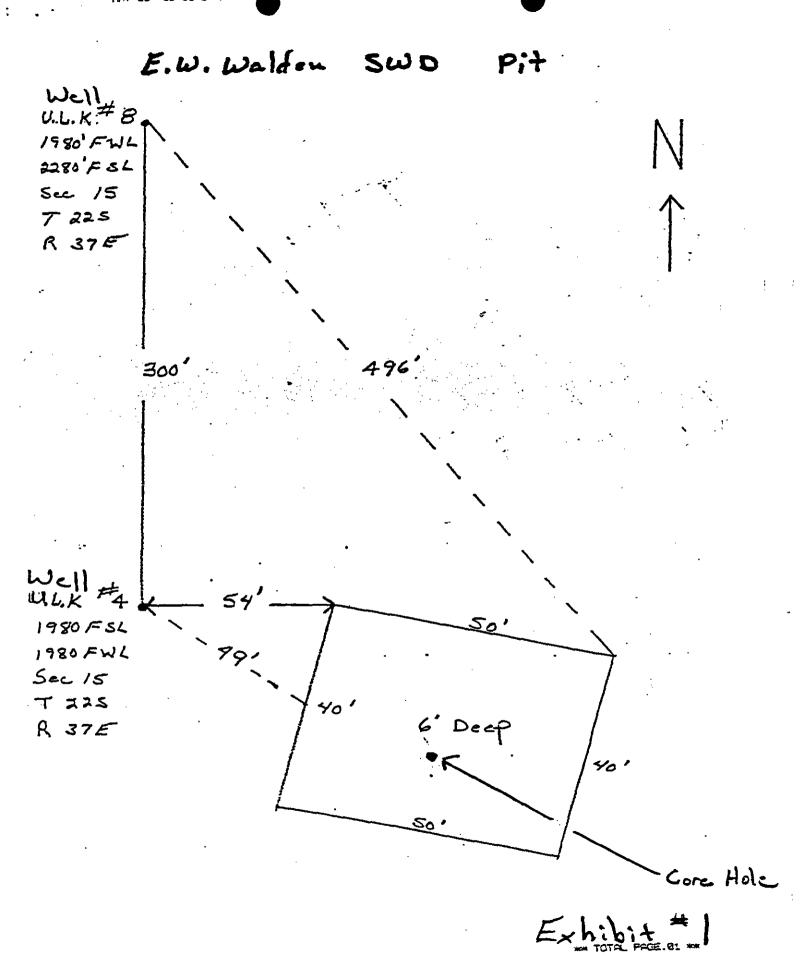
I.

ANADARKO PETROLEUM CORPORATION . 132829 #1 LOVINGTON HWY. . P. O. BOX 37 . LOCO HILLS, NM 88255-0037 . (505) 677-2411 . FAX (505) 677-2414



Subsequent Report - E. W. Walden Lease Pit Closure 10-27-96

Anadarko Petroleum Corporation has closed the emergency overflow pit located at the waterplant on the E. W. Walden Lease as per the Notice of Intent filed with the Hobbs NMOCD office on 8-22-96. The pit location is shown on exhibit 1. Soil sampling was done on this pit by coring as shown on exhibit 2. The bore hole was then plugged to surface with a cement and bentonite mixture. The core sample test results are also shown on exhibit 2. Anadarko went in and removed all the soil that was heavily contaminated with hydrocarbons and hauled this soil to Environmental Plus, Inc. which is an approved NMOCD Surface Waste Management Facility. There was 264 yards of contaminated soil hauled from this pit as shown on exhibits 3 & 4. Then the pit was contoured to slope in a dome away from the center and a 12 mil polyvinyl plastic sheeting was placed over the pit bottom. This is designed to direct rainwater away from the pit and not allow percolation of rainwater through the remaining hydrocarbon affected soil. The pit was then backfilled with clean soil and recontoured to the original surface grade. There are pictures, as shown in exhibits 5 & 6, of the pit before digging, during digging, before liner placement, after liner placement and completion of backfilling. A Hobbs' NMOCD field inspector did inspect this pit before we placed the liner and backfilled.



#### WESTERN ENVIRONMENTAL CONSULTANTS P.O. Box 1816 Hobbs New, Mexico 88240 (505) 392 - 5021

### SOIL ANALYSIS REPORT

DATE: 7/126/96 CLIENT: Anadarko Petro. Corp. SUPERVISOR: A. Hodge Sample Matrix: Soil

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FACILITY: E.W. Walden SWD Pit Test Method: EPA 418.1 Order No.: Mike Braswell

	TPH		DEPTH	LOCATION
SAMPLE NO. 1:	120,650	PPM	Surface	Composite center of pit
- SAMPLE NO. 2:	32450	PPM	5'	SB-1 Pit Bottom
SAMPLE NO. 3:	22600	PPM	10'	SB-1 Pit Bottom
• SAMPLE NO. 4:	`     107	PPM	15'	SB-1 Pit Bottom
SAMPLE NO. 5:	12	PPM	20'	SB-1 Pit Bottom
SAMPLE NO. 6:	•	PPM		
SAMPLE NO. 7:		PPM		
SAMPLE NO. 8:		PPM		•
SAMPLE NO. 9:		PPM		
SAMPLE NO. 10:		PPM		

COMMENTS: These samples were split spoon samples taken during soil boring of pit bottom. Sample #1 was a surface sample taken at start of boring five foot below grade. All depths shown on report are five foot below graded.

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AUG-12-96 MON Drilled for Drilling Log HNADARKO Locotion: E. W. WALDEN SWD NEL SWE Date Ortiled: 7/24/96 Well/Bore Number: SB-1 A. Hoch E Beiller SEC-15-T225-R37E REZ Length of Cosings /A Copin of Well: 25 Dotting Hellow AUGER Longth of Screens Depin of Boring: NA Well Malerlet Daris Charnelor: 74 00 Cosing Diamoter: N/A Serven Diameter: NA Siat Size:  $\nu/_{A}$ MENT Sprit SURFACE OF FIT SURFACE OF PIT SPEDN 120,650 ppm CALACHIS / F.T. MATERAL 11 CALACHIE. 32,450 pm 10 10 22,600 pp-M CALACHIE I SAND 11 15 . 15 RED SAND 11 07 DOM 20 20 RED SAND 11 ·ス. DDM 25 : 25 TOTAL DEPTH STARTED DRILLING 5'BELOW SURFACE 30 Ţ TPH TEST RON 35 ON SITE WITH 35 Ę IN PIT BOTTON - '40 TEST METHON **\_4**0 45 2PA: 418.1 45 • • • • 50 55 **5**0 **.** 65 65 - 70 Żα . **75** . 75 . 80 80. - 85 85 - 90 90. .95 95. - 100 100. 105 £ F, 105. AUG 11 '96 18:59

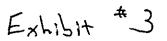
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	ENVIRONMENTAL PLUS, INC STATE APPROVED LAND FARM	é	
	Phone (505) 394-3481 P.O. Box 969 Eunice, New Mexico 88231	<u>110</u>	152
	NAME NIKe		
	Iden SWD # 4		
SEC TOWNSHIP - RANGE OF TRUCKING COMPANY NAME?	A LOCATION		;
DRIVER'S SIGNATURE	allaling 1 for Kidenay / Houseday	<u> </u>	freat
TYPE OF MATERIAL AND QUA EXEMPT WASTE FROM	NTITY _ 264 CIA you 27/0475		<u> </u>
OTHER	EXPLAIN		
· · · · · · · · · · · · · · · · · · ·	ED: YES NO		
•			
	A		
NAME OF ATTENDANT ON DU	D-96		··
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SEPT. 2, 1996

296-081

#### GLOBE CONSTRUCTION COMPANY, INC. INVOICE

PHONE: 392-6511 392-6512

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Dire Contractor and Oct Field Construction

BOX 779

HOBBS, NEW MEXICO 88240

ANADARKO PRODUCTION COMPANY SOLD TO: DATE: F.O. BOX 37 JOB AND INVOICE NO.: LOCO HILLS. NEW MEXICO 88255-0037

YOUR ORDER NO.:

LOCATION:	ORDER NO.: F.W. WALDEN SWD #4 NET 30 DAYS - 1% SERVICE CHARGE AFTER DUE DATE			
DATE	DESCRIPTION OF WORK		PRICE AMOUNT	
<u></u>	TICKET 51982 FURNISH EQUIPMENT. LABOR AND MATERIALS TO LOAD AND HAUL PIT MATERIAL TO LAND FARM:		արտանություն է երագրություններությո	الا <del>كان مان كرد</del> م رويون كم موادر اليك
/30/96				
	790 EXCAVATORW/OPR. DUHP TRUCKS - 12 YD.	9 HRS. 36 HRS.	ଡ଼ ହ୍ରେ.୦୦ ଜୁ 46.୦୦	855.00 1.656.00
			Sub Total	<b>₽</b> 2,511.00
	THANK YOU	5.250		131.83
			TOTAL	≢ 2,642.83
			· .	
JEW MEXICO			Exh: 51+ #	4

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