District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District 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 SANTA FE OFFICE

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company	Telephone: (505) - 326-9200
Operator: Amoco Froduction Company	
Address: 200 Amoco Court, Farmingto	n, New Mexico 87401
Pacility Or: SCHWERDTFEGER	A ZX
1 1 1	
Location: Unit or Qtr/Qtr Sec	Sec 31 T28N R8W County SAN THAN
Pit Type: Separator Dehydrator	Other PRODUCTION TANK
Land Type: BLM X, State, Fee	_, Other
(ADEPLITYONOR GAS INSPECTOR wellhead)	ch 8', width 10', depth 4'
DEC 11 9 1996 Footage from reference	a: <u>135</u>
Direction from referen	nce: 85 Degrees X East North Of West South X
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)
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	Yes (20 points) No (0 points)
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)
	RANKING SCORE (TOTAL POINTS): 10

Date Remediation St	arted:	Date Completed: 8/3/94	
Remediation Method:	Excavation ×	Approx. cubic yards6	
(Check all appropriate sections)	Landfarmed X	Insitu Bioremediation	
,	,		
	,		
Remediation Location	n: Onsite × Offs	ite	
(ie. landfarmed onsite, name and location of		•	•
offsite facility)			
General Description	Of Remedial Action:		
Excavation	on		
Ground Water Encoun	tered: No 🗶	Yes Depth	
Final Pit:	Sample location	see Attached Documents	
Closure Sampling: (if multiple samples,			
attach sample results	Sample depth	4'	
locations and depths)	Sample date $\frac{8/3/9}{3}$	Sample time 1030	
	Sample Results		
	Benzene(ppm)		
	Total BTEX(ppm		
	Field headspac		
	TPH 52 ppm		
Ground Water Sample	: Yes No <u>X</u>	(If yes, attach sample results)	
I HEREBY CERTIFY THE		BOVE IS TRUE AND COMPLETE TO THE BES	3T
DATE 8/3/94	1	BIINCI.	
SIGNATURE BASI	PRINTED N. AND TITLE	AME Buddy D. Shaw Environmental Coordinator	_

CLIENT: AMOCO	PO BOX 87. BLO	NEERING, INC OMFIELD, NM 332-1199	. 87413 C.O.C. NO:
FIELD REPOR	RT: CLOSURE	VERIFICA'	TION PAGE NO: of
LOCATION: NAME: SCHWER	OTFEGER WELL #: A	ZX PIT: PROD.	DATE STARTED: 8/3/94
OLKALDNIAGE: MMT.	SHAMION ADDROV S	C per x 16	_ FT. x4_ FT. DEEP.
DISPOSAL	FACILITY: LANDFARME	D ON-SITE CU	BIC YARDAGE:
LAND USE:	RANGE	LEASE:	SF - 0743/7
FIELD NOTES & REMA	RKS: PIT LOCATED APPRO	XIMATELY 135 NEAR	FEET <u>585€</u> FROM WELLHEAI EST SURFACE WATER: <u>>1000</u>
NMOCD RANKING SCORE:/	NMOCD TPH CLOSURE ST):	FORMATION: OK.
SOIL AND EXCAVATION	DESCRIPTION:		
	OR YELL BAC	LODGE T HOW	HESIVE, PRY TO SLIGHTLY MOIST
	FIRM, No	HPPMRENT II	
	FIELD 418.1	CALCULATIONS	
SAMPLE	I.D. LAB No: WEIGHT (g)	nL. FREON DILUTION F	EADING CALC. ppm
304	TPH-1054 5	20 1:1	13 52
SCALE			
		OVIM	
0 FT PIT PERIN		OVM SULTS	PIT PROFILE
111 11111	SAMPLE	FIELD HEADSPACE PID (ppm)	A A
PIDO	O. Serm 1@ 2'	0.0	SWIFACE (1)
(TAN)		0.0	L4
	4621	0.0	8,1
~ NO			· ·
WELL OF	(1) A' 10		
MEAD (3)			
A' L	-	LAB SAMPLES	
		LAB SAMPLES	
8.	1		
TRAVEL NOTES: (ALLO	10T: 8(1/94	ONSITE: 8/	3/94
TRAVEL NOTES: CALLO	UI:	ORBINE.	

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Amoco

Sample ID:

5 @ 4'

Project #:

Project Location:

Schwerdtfeger A 2 X

Date Analyzed: Date Reported: 8-03-94

Laboratory Number:

TPH-1054

8-03-94

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	52	20

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample	Duplicate	%
TPH mg/kg	TPH mg/kg	*Diff.
978	938	4.18

^{*}Administrative Acceptance limits set at 30%.

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Production Tank Pit - B0039

Malyst VIA

Review

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pistrict I P.O. Box 1980, Habbs, NM District II P.O. Drawer DD, Artesia, NM \$8211 District III 1000 Rio Brazos Rd, Aztec, NM 87410

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OIL CONSERVATION DIVISION

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company	Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmingto	on, New Mexico 87401
Facility Or: SCHWEROTFEGER A	ZX
Well Name	Sec 31 TZ8 R 8W County SAN JUAN
Pit Type: Separator X Dehydrator	Other
Land Type: BLM X, State, Fee	Other
Pit Location: Pit dimensions: lengt	th 38', width 53', depth 26'
(Attach diagram) Reference: wellhead	<pre></pre> , other
Footage from reference	95'
Direction from referen	nce: $\frac{40}{\text{Degrees}}$ Degrees \times East North \times
	West South
Depth To Ground Water: (Vertical distance from contaminants to seasonal	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)
high water elevation of ground water)	
Wellhead Protection Area:	Yes (20 points) No (0 points)
(Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	,, (o pour /
Distance To Surface Water: (Horizontal distance to perennial	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)
lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	RANKING SCORE (TOTAL POINTS):

Date Remediation St	arted:	Date Completed:	8/26/94
Remediation Method:		Approx. cubic yards	
(Check all appropriate sections)	Landfarmed X	Insitu Bioremediation	
gections,			
Remediation Locatio (ie. landfarmed onsite, name and location of offsite facility)	n: Onsite <u>X</u> Off	site	-
General Description	Of Remedial Action	·	
Excavation	on		
Ground Water Encoun	tered: No 💢	Yes Depth	
Final Pit: Closure Sampling:	Sample location	see Attached Documents	
(if multiple samples, attach sample results	mutipe		
and diagram of sample locations and depths)	Sample depth		
		26.99 Sample time	
	Sample Results		
	Benzene(ppm)		
	Total BTEX(pp		
		ce(ppm)	
	трн 1400 рри	1.	
Ground Water Sample	: Yes No <u>X</u>	(If yes, attach sample	results)
I HEREBY CERTIFY THE		ABOVE IS TRUE AND COMPLET	TE TO THE BEST
DATE 8/26/94 SIGNATURE BASI	PRINTED N	IAME BULLY D. SI	haw, I
SIGNATURE / XX	(AW AND TITE	CNYIRUNMENTA -	OURDINATOR

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, 1 P.O. BOX 87, BLOOMFIELD, N (505) 632-1199		C.O.C. NO:
FIELD REPOR	RT: CLOSURE VERIFIC	CATION	PAGE No: / of Z
	31 TWP: 28 - RNG: 8 - PM: NM CNT		DATE STARTED. 8/3/94 DATE FINISHED: 8/26/94
OTD (FUDTAGE: N) 4	CONTRACTOR: P. VELA	squez	SPECIALIST: NU
DISPOSAL I	CAVATION APPROX. 15' FT. x 1 FACILITY: LANDFARMED ON-SITE RANGE LEASE:	CUBIC YAR	DAGE: 42
FIELD NOTES & REMAR	RKS: PIT LOCATED APPROXIMATELY9	5 FEET A	FROM WELLHEAD.
DEPTH TO GROUNDWATER < 10	OO NEAREST WATER SOURCE: >/000	NEAREST SURFAC	FORMATION: DK
NMOCD RANKING SCORE:	O NMOCD TPH CLOSURE STD: 1000 PPM		PORPIATION
ORIGINAL EXCAURTION SEE PS. Z FOR ACTUAL PIT DIMENSIONS.	DESCRIPTION: OK. YELL. BROWN SAND, NON MOIST, FIRM TO DENSE SONTH SIDEWALL OUM	SAMPLE.	HZ ODOR IN
SAMF'_E	FIELD 418.1 CALCULATIONS I.D. LAB No: WEIGHT (g) mL FREON DILUTION		
⊙ e:	5 TPH-1053 5 ZD 1:1	389 1	556
SCALE			
0 PIT PERIM	METER 7N RESULTS	PIT	PROFILE
15	SAMPLE FIELD HEADSPACE FID (ppm)	A	15 A
	20 4/ \.\	ESOUND	
0	4 e 6	SURFACE 81	
93	15	T	
A O	<i>y</i>		
SEP	LAB SAMPLES		
		0/./.	
TRAVEL NOTES: CALLO	JT: 8 /1/94 ONSITE:	8/3/94	

CLIENT: AMOCO BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.D.C. ND:
FIELD REPORT: CLOSURE VERIFICATION	PAGE No: 2 of 2
LOCATION: NAME: SCHWERDTFEGER WELL #: AZX PIT: SEP	DATE STARTED: 8/3/94 DATE FINISHED: 8/26/94
QUAD/UNIT: 0 SEC: 31 TWP: 282 RNG: 80 PM: 2000 CNTY: 57 ST: NOW	CAUZIDONIMENTAL
SOIL REMEDIATION: EXCAVATION APPROX. 38 FT. x 53 FT. x DISPOSAL FACILITY: 02-51TE CUBIC YAR: LAND USE: RADGE LEASE: 5F-	_Z6 FT. DEEP.
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 95 FEET 1 DEPTH TO GROUNDWATER: <100 NEAREST WATER SOURCE: >/000 NEAREST SURFACE	S40E FROM WELLHEAD. E WATER: 2/308
	FORMATION: DK
SOIL AND EXCAVATION DESCRIPTION:	
SOIL AND EXCAVATION DESCRIPTION: MED GRAY TO BLACK (BOTTOM) FAND, MOIST, FIRM, STRONG HC GOOR SIDEWALLS & BOTTOM OUM SAMPLE HARD SANDSTONE AT VALIOUS DE NORTH SIDEWALL HC CONTAMINATION FROM ORIP PIT NEARBY SALES FIELD 418.1 CALCULATIONS SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION READING CALL 6730 3022 TPH-1097 5 20 1:1 338 1	S. BOTTOM 2005/87 01 OTHS SEE PIT PROFILE MAY HOVE RESULTED LINE & METER HOUSE. C. ppm
SCALE	
O PIT PERIMETER AN OVM RESULTS PIT	PROFILE
SAMPLE FIELD HEADSPACE A	A'
1821 1088	
38 22' 1(q- -8 / 48 22' 252	
5€ 26' 1491 26'	
53 (9) (5)	SANDSTONE
A LAB SAMPLES	
3	
SEP	
TRAVEL NOTES: CALLOUT: 8/26/94 ONSITE: 8/26/94	

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Amoco

Project #:

Sample ID:

3 @ 5'

Date Analyzed:

8-03-94

Project Location:

Schwerdtfeger A 2 X

Date Reported:

8-03-94

Laboratory Number:

TPH-1053

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	1,600	20

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample	Duplicate	%
TPH mg/kg	TPH mg/kg	*Diff.
978	938	4.18

^{*}Administrative Acceptance limits set at 30%.

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Separator Pit - B0039

Mon VID Analyst Review

P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Amoco

Sample ID:

3 @ 22'

Project #:

Project Location:

Schwerdtfeger A2X

Date Analyzed:
Date Reported:

8-26-94 8-26-94

Laboratory Number:

TPH-1098

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	1,400	20

ND = Not Detectable at stated detection limits.

OA/OC:

QA/QC Sample	Duplicate	%
TPH mg/kg	TPH mg/kg	*Diff.
104	92	11.54

^{*}Administrative Acceptance limits set at 30%.

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Separator Pit - B0039

Analyst

Review

O. Box 1980, Hobbs, NM

istrict II

O. Drawer DD, Artesia, NM 88211

istrict III

UOO Rio Brazos Rd, Aztoc, NM 87410

State of New Mexico O. Box 1980, Hobbs, NM Energy, Minerals and Natural Resources Department

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

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company	Telephone: (505) · 326-9200			
Address: 200 Amoco Court, Farmington,	New Mexico 87401			
Pacility Or: SCHWEROTFEGER Well Name				
Location: Unit or Qtr/Qtr Sec D Sec 3(TZ80 R9W County 5AN TWAN				
Pit Type: Separator Dehydrator Of	ther Book			
Land Type: BLM_X, State, Fee	Other			
Pit Location: Pit dimensions: length 23 , width 65 , depth 16 Reference: wellhead X, other Footage from reference: 62 Direction from reference: 35 Degrees X East North of West South X				
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)			
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	Yes (20 points) No (0 points) <u> </u>			
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)			
	RANKING SCORE (TOTAL POINTS): 10			

		51.60
Date Remediation St	arted:	Date Completed: 8/26/94
Remediation Method:	Excavation 🔀	Approx. cubic yards 885
(Check all appropriate sections)	Landfarmed 🔀	Insitu Bioremediation
	Other	
Remediation Location (ie. landfarmed onsite, name and location of offsite facility)		site
General Description	Of Remedial Action	1:
Excavatio	on	
,		
The second	tared: No V	Yes Depth
Ground Water Encoun	tered.	
Final Pit: Closure Sampling:	Sample location _	see Attached Documents
(if multiple samples, attach sample results	Sample depth	16'
and diagram of sample locations and depths)	Sample date 8/2	694 Sample time 0850
	Sample Results	
	Benzene (ppm)	
	Total BTEX(p	
		ace(ppm) 36.4
	TPH _ 28 6 6 M	
Ground Water Sample	Yes No 2	(If yes, attach sample results)
OF MY KNOWLEDGE AND	AT THE INFORMATION BELIEF	ABOVE IS TRUE AND COMPLETE TO THE BEST
DATE 8/26/94	1	RILL D Shall
SIGNATURE SASI	AND TIT	NAME Budd. D. Shaw LE Environmental Consdinator

BLAGG ENGINEERING, INC. LOCATION NO. BOX 87 , BLOOMFIELD, NM 87413 C.O.C. NO. C.O.C. NO.
FIELD REPORT: CLOSURE VERIFICATION PAGE No: of
QUAD/UNIT: D SEC: 31 TWP: 28N RNG: 9W PM: NM CNTY: 57 ST:NM
OTR/FOOTAGE: NW/4 NW/4 CONTRACTOR: P. VELASQUEZ SPECIALIST: NV
SOIL REMEDIATION: EXCAVATION APPROX23 FT. x _65 FT. x _16 FT. DEEP. DISPOSAL FACILITY:
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 62 FEET 5756 FROM WELLHEAD DEPTH TO GROUNDWATER: 4100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000
NMBCD RANKING SCORE:/S NMBCD TPH CLOSURE STD: /000 PPM
SOIL AND EXCAVATION DESCRIPTION: DIC. VELL. GRANGE TO OLIVE GREY SAND, NON-CONESTOE, SUGHTLY MOIST, FIRM, SLIGHT HE OOR IN BOTTOM OUT SAMPLE. HIGHO SANDSTONE AT BOTTOM OF PIT FIELD 418.1 CALCULATIONS SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION READING CALC. ppm 3850 3850 3814 TPH-1857 5 Z.O 1:1 7 Z8
O FT PERIMETER N OVM RESULTS PIT PROFILE
SAMPLE FIELD HEADSPACE PIC (ppm) SAMPLE FIELD HEADSPACE PIC (ppm) A BLOW A CS I BLOW A CS I BLOW A CS I A
TRAVEL NOTES: CALLOUT: 8/26/94 ONSITE: 8/26/94

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Amoco

Sample ID:

Project Location: Laboratory Number: 5 @ 16'

Schwerdtfeger A 2 X

TPH-1097

Project #:

Date Analyzed:

8-26-94 8-26-94

Date Reported: Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	28	20

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample	Duplicate	%
TPH mg/kg	TPH mg/kg	*Diff.
104	92	11.54

^{*}Administrative Acceptance limits set at 30%.

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Blow Pit - B0039

Median 15th

R. E. Snell
Review