State of New Hexico O. Box 170 Hobbs, NM O TENERGY, Minerals and Natural Resources Department O. D. DEPUTY OLL GAS INSPECTOR OIL CONSERVATION DIVISION P.O. Box 2088 100 Rio Brazos Rd. ABECTA 17519996

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

PIT REMEDIATION AND CLOSURE REPORT

Santa Fe, New Mexico 87504-2088

- har fuff and the Sandown	
Operator: Amoco Production Company	Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington,	New Mexico 87401
Facility Or: Po PIPKIN #2 Well Name	
Location: Unit or Qtr/Qtr Sec Se	C 8 TETA R 10W County SAN JUAN
pit Type: Separator Ot	ther 810W
Land Type: BLM X, State, Fee	, Other
Footage from reference:	, other
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) / C
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) ONO (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: 9/21/94
Remediation Method:	Excavation \times	Approx. cubic yards
(Check all appropriate dections)	Landfarmed	Insitu Bioremediation
	Other Composi	E O
Remediation Location (ie. landfarmed onsits, name and location of offsite facility)		
General Description	Of Remedial Action	•
Excavation	on	
Ground Water Encoun	tered: No X	Yes Depth
Final Pit: Closure Sampling:	Sample location	see Attached Documents
(if multiple samples, attach sample results	Sample depth	6'
and diagram of sample locations and depths)	Sample depth	Sample time 1218
	Sample Results	
	Benzene (ppm)	
•	Total BTEX(p	pm)
	Field headsp	ace(ppm) 27.8
	TPH /30 4 PP	
		imes (If yes, attach sample results)
OF MY KNOWLEDGE AN	HAT THE INFORMATION D BELIEF	ABOVE IS TRUE AND COMPLETE TO THE BEST
DATE 9/21/94	PRINTED	NAME Buddy D. Shaw LE Environmental Coordinator
SIGNATURE (2)	HAW AND TIT	LE ENVIRONMENTAL CORRELIMATOR

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.D.C. ND:
FIELD REPORT: CLOSURE VERIFICATION	PAGE No:/ of/
QUAD/UNIT: L SEC: 8 TWP: Z7~ RNG: 10W PM: NM CNTY: SI ST: NM QTR/FOOTAGE: NW14 5W 4 CONTRACTOR: EPC	DATE STARTED: 9/21/94 CATE FINISHED: ENVIRONMENTAL NV
SOIL REMEDIATION: EXCAVATION APPROX. 28 FT. x 31 FT. x DISPOSAL FACILITY: Composited on -site cubic yar LAND USE: RANGE LEASE: 5F - 0	77875
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 300 FEET 5 DEPTH TO GROUNDWATER: <100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE	FROM WELLHEAD.
	FORMATION: OK
SOIL AND EXCAVATION DESCRIPTION: EXCAUATION MOSTLY IN SHALE. DK. NO APPRIENT HC ODOR.	YELL. BROWN IN COLOR,
TO HARD SHALE	
FIELD 418.1 CALCULATIONS SAMPLE I.D. LAB No: WEIGHT (9) mL. FREON DILUTION READING CAL	C. ppm
1212 30 61 TPH-1153 5 20 1:1 326 1	304
SCALE	
LII I EMMETER NO KEOULD	PROFILE
Z8 1 10 HELD SAMPLE FIELD HEADSPACE PID (IPPIN) 1 6 6 0.0 2 8 1 0.0	A'
3061 27.8	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	61/12
31 3 S A IIIIII	HARD TIME
31 3 5	HARD TIMINITY I
A A LAB SAMPLES	HARD INTIMAL SHALE SOFT SHALE

BLAGG ENGINEERING, INC.

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 @ 6'

Date Analyzed:

9 - 21 - 94

Project Location:

P. O. Pipkin #2

Date Reported:

9 - 21 - 94

Laboratory Number:

TPH-1153

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	1,300	20

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg

Duplicate TPH mg/kg

% *Diff.

372

416

11.17

*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 - B0100

Analyst S

Review

Bo loo

O. Box 1980, Hobbs, NM

ISTRICT II
O. Drawer DD, Artesia, NM 88211

ISTRICT III

MO Rio Brazos Rd, Azice, NM 87410

State of New Mexico Energy, Hinerals 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	
Address: 200 Amoco Court, Farmington,	· ·
Pacility Or: P.O. PIPKIN T	
Location: Unit or Qtr/Qtr Sec	: 8 TZ7 R 10W County SAN JUAN
Pit Type: Separator Ot	her ABKNOONED
Land Type: BLM X, State, Fee,	Other
Footage from reference:	other
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) / 5
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):

		,)
Date Remediation St	arted:	Date Completed: 9/21/94
Remediation Method:	Excavation \times	Approx. cubic yards
(check all appropriate	Landfarmed	Insitu Bioremediation
,	Other	
·		
Remediation Location	onsite X of	fsite
(ie. landfarmed onsite,		<u> </u>
	og nomodial Actio	n: CLOSE AS 15
Excavatio	on	
		D Alb
Ground Water Encoun	tered: No X	Yes Depth
		and Artached Documents
Final Pit: Closure Sampling:	Sample location	see Attached Documents
(if multiple samples, attach sample results		4′
and diagram of sample locations and depths)	Sample depth	320 Sample time /320
Tocactons and set		7/77 Sampio Sim
	Sample Results	
	Benzene (ppm	
•	Total BTEX(
		pace(ppm) 37.8
	трн <u>860 р</u>	pm
Ground Water Sample	a: Yes No	X (If yes, attach sample results)
I HEREBY CERTIFY TO	HAT THE INFORMATIO D BELIEF	N ABOVE IS TRUE AND COMPLETE TO THE BEST
DATE 9/21/94		TLE ENVIRONMENTAL CORRIGINATOR
SIGNATURE BAS	haw and TI	TLE ENVIRONMENTAL CORRLINATOR

CLIENT: AMOCO BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	L.DCATION NO: 80100
FIELD REPORT: CLOSURE VERIFICATION LOCATION: NAME: P.O. PIPICIA WELL #: 2 PIT: ABRODONED QUAD/UNIT: 4 SEC: 8 TWP: Z7N RNG: 10N PM: NM CNTY: 5J ST:NM	PAGE No: of DATE STARTED: 9/21/94 DATE FINISHED:
OTR/FOOTAGE: NW/Y SW/Y CONTRACTOR: EPC	ENVIRONMENTAL NV
SOIL REMEDIATION: EXCAVATION APPROX 9 FT. x _ 9 FT. x DISPOSAL FACILITY: _ CLOSE AS IS CUBIC YARI	DAGE:
LAND USE: RRAGE LEASE: SF-C	
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 187 FEET S DEPTH TO GROUNDWATER: <100 NEAREST WATER SOURCE: >100 0 NEAREST SURFACE	SE VATER: 7/000)
NMOCD RANKING SCORE: MMOCD TPH CLOSURE STD: 1000 PPM	FORMATION: D/Z
SOIL AND EXCAVATION DESCRIPTION: PALE ORANGE JAND NON-COHESIV NO APPRIENT HE OOUR. BOTTOM: PRIE ORANGE SKNOSTONE, HARL	E, DAY, DEMSE,
SCALE OVM	PROFILE A SANOSTENE
TRAVEL NOTES. CALLOUT: $\frac{9/20/94}{}$ ONSITE: $\frac{9/21/94}{}$	

BLAGG ENGINEERING, INC.

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:

4 @ 4'

Project Location:

Laboratory Number:

P. O. Pipkin #2

TPH-1154

Project #:

Date Analyzed:

9 - 21 - 94

Date Reported:

9 - 21 - 94

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	860	20

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample
TPH mg/kg

Duplicate TPH mg/kg % *Diff.

372

416

11.17

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Abandoned Pit - B0100

Ánalyst

F. E. O'Nell Review

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

O. Box 1980, Hobbs, NM

istrict II
O. Drawer DD, Artesia, NM 88211

istrict III

JOO Rio Brazos Rd, Azlos, NM 87410

State of New Hexico 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		
Address:	200 Amoco Court, Farmington	, New Mexico 87401	
Facility Or:	P.O. PIPRIN H		
Location: Unit o	or Qtr/Qtr Sec Se	BC 8 TZ72 RIOW County SAN TWAN	
pit Type: Separ	imes Dehydrator 0	ther	
Land Type: BLM	$4\times$, State, Fee	, Other	
Pit Location: Pit dimensions: length _ z8' , width _ z8' , depth _ 13' Reference: wellhead \(\sum \) , other Footage from reference: _ /40' Direction from reference: _ 85 Degrees \(\sum \) East North \(\sum \) of West South			
Depth To Ground Water: (Vertical distance from 50 feet (20 points) 50 feet to 99 feet (10 points) contaminants to seasonal high water elevation of ground water)			
domestic water so	ction Area: et from a private ource, or; less than l other water sources)	Yes (20 points) No (0 points)	
Distance To Su (Horizontal dista lakes, ponds, riv irrigation canals	nce to perennial vers, streams, creeks,	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)	
		RANKING SCORE (TOTAL POINTS): /O	

Date Remediation St	arted:	Date Completed:	9/21/94
Remediation Method:	Excavation \times	Approx. cubic yards	260
(Check all appropriate sections)	Landfarmed	Insitu Bioremediation	
	Other Compos	TED	
Remediation Location	n: onsite \times off	site	
(ie. landfarmed onsite, name and location of offsite facility)			•
General Description	Of Remedial Action		
Excavation	วทั		
			·
			<u> </u>
Ground Water Encoun	tered: No 🔀	Yes Depth	
Final Pit: Closure Sampling:	Sample location _	see Attached Documents	
(if multiple samples, attach sample results	Sample depth	13'	
and diagram of sample locations and depths)	Sample date 9/2	//94 Sample time	1350
	Sample Results		
	Benzene (ppm)		
•	Total BTEX(p)		
		ace(ppm) 160.1	
	трн <u>52 ррп</u>		
Ground Water Sample	Yes No >	(If yes, attach sample	results)
I HEREBY CERTIFY THOF MY KNOWLEDGE AND	HAT THE INFORMATION DELIEF	ABOVE IS TRUE AND COMPLE	TE TO THE BEST
DATE 9/21/94	PRINTED	NAME BULL D. S	haul.
SIGNATURE SAS	haw AND TIT	NAME BUJJ, D.S.	Conrdinator

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 8741 (505) 632-1199	3 C.D.C. ND:	
FIELD REPOR	RT: CLOSURE VERIFICATION		
LOCATION: NAME: P.O. I	PIPKIN WELL #: 2 PIT: SEP 8 TWP: Z7 2 RNG: 10W PM: NM CNTY: ST: N	DATE STARTED: 9/21/94	
QTR/FOOTAGE: NW!	4 SW 4 CONTRACTOR: EPC	SPECIALISTNU	
SOIL REMEDIATION: EXC DISPOSAL F	CAVATION APPROX. 28' FT. x 28' FT.	RDAGE: <u>160</u>	
	RANGE LEASE: SF-		
FIELD NOTES & REMAR	RKS: PIT_LOCATED_APPROXIMATELY_140FEET NEAREST_SURF	N855 FROM WELLHEAD. ACE WATER:	
		FORMATION: DIZ	
SDIL AND EXCAVATION I	DESCRIPTION:	NY PLASTIC SLIEHTLY	
SOIL AND EXCAVATION DESCRIPTIONS OK. YELL. BROWN SILTY CLAY SLIGHTLY PLASTIC SLIGHTLY ONE TO DVM SAMPLES. SHALE BOTTOM: OK. GROY TO BLACK SHALE, SOFT, SLIGHTLY HC OOOR IN OUM SAMPLE.			
SAMPLE	FIELD 418.1 CALCULATIONS I.D. LAB No: WEIGHT (9) mL. FREON DILUTION READING C	ALC. ppm	
1350 5013		5.2	
SCALE			
0 FT PIT PERIM	ELLIK // KEPOLIP	r PROFILE	
K TRUL VERD A	SAMPLE FIELD HEADSPACE PID (Ppin) 1 @ 8 0 0 0	A	
I TEAD	2 <u>6</u> 9/ 0.0 3 <u>6</u> 9/ 0.5		
()	5 6 13/ 160.1	(13,	
D D	3	MINIMI IN SOFT SHALE	
3	LAB SAMPLES		
A,	CAD SAMICES		
WELLEY NOTES			
TRAVEL NOTES: CALLOUT	: 9/30/94 ONSITE: 9/21/94		

BLAGG ENGINEERING, INC.

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:

Sample ID:

Amoco

5 @ 13'

Project Location: Laboratory Number: P. O. Pipkin #2

TPH-1155

Project #:

Date Analyzed:

9 - 21 - 94

Date Reported:

9 - 21 - 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 TPH mg/kg

Duplicate TPH mg/kg

% *Diff.

372

416

11.17

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Separator Pit - B0100

Malyst Ville

R. C. Onell

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