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

DEPUTY OIL & GAS INSPECTOR

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

SEP 11.9 1996

PIT REMEDIATION AND CLOSURE REPORT

		Hywe tel
Operator:	Amoco Production Company	
Address:		·
Well Name	R.P. HARGRAVE	
		ec 9 T270 R 10W County SAN JWAD
Pit Type: Sepa	rator Dehydrator (Other BLOW
Land Type: BI	$\underline{M} \ \underline{\hspace{1cm}} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $, Other
Pit Location: (Attach diagram)	Reference: wellhead X	th 20, width 20, depth 5, other :
Depth To Group (Vertical distant contaminants to high water eleval ground water)	ce from seasonal tion of	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points) Yes (20 points)
domestic water s	ection Area: eet from a private ource, or; less than ll other water sources)	No (0 points)
	ance 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):

Date Remediation St.	arted:	Date Completed:	2/8/95
Remediation Method:		Approx. cubic yards	45
(Check all appropriate sections)	Landfarmed	Insitu Bioremediation _	
·	Other Composite	<u> </u>	
Remediation Location	n: Onsite $ imes$ Of	fsite	
(ie. landfarmed onsite, name and location of		<u> </u>	-
offsite facility)	of Demodial Series	n•	
		n:	
Excavation	on - BEDROCK B		
			-
		<u></u>	
Ground Water Encoun	tered: No X	Yes Depth	
		see Attached Documents	
Final Pit: Closure Sampling:	Sample location _	see Attached Pocuments	
(if multiple samples, attach sample results		21	
and diagram of sample locations and depths)	Sample depth	,	1105
		GIII Sample Cline	,,,,,
	Sample Results	20019	
	Benzene(ppm)		
	Total BTEX(p	<u>_</u>	
		ace(ppm) <u>/46.7</u>	
	трн <u>660 р</u> ј	<u>P</u> m	
Ground Water Sample	: Yes No _	∠ (If yes, attach sample)	results)
OF MY KNOWLEDGE AND	AT THE INFORMATION BELIEF	ABOVE IS TRUE AND COMPLET	TE TO THE BEST
DATE 2/8/95	1	RIINS	Lau
SIGNATURE SASI	naw AND TIT	NAME Buddy D. S LE Environmental	Porrdinator

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	1364 NB: 80214
FIELD REPORT: CLOSURE VERIFICATION	DATE STARTED: 2/6/95
QUAD/UNIT: B SEC: 9 TWP: Z7 N RNG: 10W PM: NM CNTY: ST ST:NM CTR/FOOTAGE: NWIY NELY CONTRACTOR: EPC	DATE FINISHED
EXCAVATION APPROX 20 FT x 20 FT x 5 FT DEEP. CUBIC DISPOSAL FACILITY: 0N-SHE REMEDIATION METHOLAND USE: CANGE LEASE: 5F-077387 FOR	D: COMPOSTED
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 175 FT. 1 DEPTH TO GROUNDWATER: >100 ' NEAREST WATER SOURCE: >1000 ' NEAREST SURFACE NMOCO RANKING SCORE	CHECK ONE:
GRAYISH ORANGE (SIDEWALLS) SAND, NON-COHESINE SLIGH	PIT ABANDONED STEEL TANK INSTALLED TLY MOIST, FIRM
BOTTOM: BEDROCK (SANDSTONE), LT. TO MED. LT. GRAY STRONG OUM SAMPLE. FIELD 4181 CALCULATIONS	HE ODOR IN
O FT	PROFILE
SAMPLE FIELD HEADSPACE PID (ppm.) 1	A'
ZO A D S A LAB SAMPLES	BEDROCK!
SAMPLE ANALYSIS TIME SAMPLE ANALYSIS TIME SOR Z' BTEX 1105 BENZENE 1.9 PPB TOT BTE ZITS PPB PASSED	•
TRAVEL NOTES: CALLOUT: 2/6/95 ONSITE: 2/6/95	

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

2 @ 2'

TPH-1361

R.P. Hargrave H 1

Project Location: Laboratory Number:

Date Analyzed: Date Reported:

02-07-95

Sample Matrix:

Project #:

02 - 07 - 95Soil

		Detection
Parameter	Result. ma/ka	Limit, mg/kg

Total Recoverable

Petroleum Hydrocarbons

660

20

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample
TPH mg/kg

Duplicate TPH mg/kg

% * Diff.

4760

4400

7.86

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Blow Pit - B0214

Mehon Tely Analyst

R. E. Onell

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



OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:

Nelson Velez

City, State: Bloomfield, Nm 87413

Date:

2/7/95

Company: Blagg Engineering

Lab ID:

2621

Address:

P.O. Box 87

Sample ID: Job No.

5078 2-1000

Project Name:

R. P. Hargrave H 1

Project Location:

2 @ 2' - Blow Pit

Sampled by:

NV DC/DA Date: Date: 2/6/95 2/7/95 Time:

11:05

Analyzed by: Sample Matrix:

Soil

Aromatic Volatile Organics

Component	Measured Concentration ug/kg	Detection Limit Concentration ug/kg
Benzene	1.9	0.2
Toluene	9.1	0.2
Ethylbenzene	17.8	0.2
m,p-Xylene	119.4	0.2
o-Xylene	69.6	0.2
	TOTAL 217.8 ug/kg	

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: Date:

P. O. BOX 2606 • FARMINGTON, NM 87499

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

	P. 1. (1) C	Telephone: (505) - 326-9200
Operator:		
Address:	200 Amoco Court, Farmington	, New Mexico 87401
Facility Or:	R P. HARGRAUE	H1
		ec 9 TZN RIOW County SAN TWAN
Pit Type: Sepa	rator ✓ Dehydrator O	ther
Land Type: BL	M	, Other
Pit Location: (Attach diagram)	Reference: wellhead X	
	Footage from reference:	
	Direction from reference	ce: $\frac{48}{\text{Degrees}}$ East North \times
		West South
Depth To Ground (Vertical distance contaminants to shigh water elevations of the contaminants of the conta	ce from seasonal	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)
domestic water so	ection Area: eet from a private ource, or; less than ll other water sources)	Yes (20 points) No (0 points)
Distance To St (Horizontal distlakes, ponds, ri irrigation canal	ance 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):

Date Remediation St	arted:	Date	Completed:	2/8/95
Remediation Method:			bic yards	
(Check all appropriate	Landfarmed		remediation	
sections)	Other Compo			
	Other			
Remediation Location (ie. landfarmed onsite, name and location of offsite facility)		ffsite		-
General Description				
Excavation	on - BEDROCK C	BOTTOM		
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	Z '		
locations and depths)	Sample date	6 (95	Sample time _	1145
	Sample Results			
	Benzene(ppm	0.0104		
	Total BTEX(ppm) 1.1685		
		pace(ppm)/S	77.7	
	трн <u>/,900</u>			
Ground Water Sample	,		ttach sample	results)
I HEREBY CERTIFY TH OF MY KNOWLEDGE AND		N ABOVE IS TRU	IE AND COMPLET	TE TO THE BEST
DATE 2/8/95	1	D NAME R	11 75	haul
SIGNATURE SASI	au AND TI	D NAME BU	Ronmental (Poprdinator

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199
FIELD REPORT: CLOSURE VERIFICATION PAGE NO: _/_ of _/ LOCATION: NAME: R.P. HARBRAVE WELL #: H1 PIT: SEP QUAD/UNIT: B SEC: 9 TWP: 272 RNG: 102 PM: NW CNTY: \$7 ST: NM OTR/FOOTAGE: NW14 NE(4 CONTRACTOR: EPC PAGE NO: _/_ of _/ DATE STARTED: 2/6/95 DATE FINISHED: ENVIRONMENTAL SPECIALIST:
EXCAVATION APPROX. 11 FT. x 14 FT. x 4 FT. DEEP. CUBIC YARDAGE: 10 DISPOSAL FACILITY: 00-SITE REMEDIATION METHOD: COMPOSTED LAND USE: KANGE LEASE: 5F-077382 FORMATION: DR FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 113 FT. N48E FROM WELLHEAD
DEPTH TO GROUNDWATER: 200 NEAREST WATER SOURCE: 3000 NEAREST SURFACE WATER 2000 NEAREST SURFACE WATER
GRAVISH ORANGE TO MOD. YELL. BROWN SAND NON-COHESIVE SLIGHTLY MOIST, FIRM TO DENSE, HE ODOR IN WEST SIDEWALL OWN SAMPLE ONLY. BOTTOM - BEDROCK (SANDSTONE), MED. GRAY, STRONG HE ODOR IN OUM SAMPLE
FIELD 418.1 CALCULATIONS TIME SAMPLE I.D LAB NO: WEIGHT (g) ML. FREON DILUTION READING CALC. ppm SCALE 11.45 @ez' 774-1362 5 20 1:1 483 1,932 O FT PIT PERIMETER N RESULTS SAMPLE FEED MESSALE SAMPLE TO SAMPLE TO SAMPLE TO MESSALE SAMPLE TO SAMPLE
TRAVEL NOTES: CALLOUT: Z/6/95 ONSITE. 2/6/95

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:

4 @ 2'

Date Analyzed:

02-07-95

Project Location:

R.P. Hargrave H 1

Date Reported:

02-07-95

Laboratory Number:

TPH-1362

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg – – – – –
Total Recoverable Petroleum Hydrocarbons	1,900	20

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample
TPH mg/kg

Duplicate TPH mg/kg % *Diff.

4760

4400

7.86

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Separator Pit - B0214

Analyst

Review

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



OFF: (505) 325-8786

LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

Attn:

Nelson Velez

Date:

2/7/95

Company: Blagg Engineering

COC No.:

2621

Address:

P.O. Box 87

Sample No.

5079

City, State: Bloomfield, NM 87413

Job No.

2-1000

Project Name:

R. P. Hargrave H 1

Project Location:

4 @ 2' - Sep. Pit

Sampled by:

NV

Date:

2/6/95 Time:

11:45

Analyzed by:

DC

Date:

2/7/95

Type of Sample:

Soil

Laboratory Analysis

Laboratory Identification	Sample Identification	Total Petroleum Hydrocarbons
	R. P. Hargrave H 1	
5079-2621	4 @ 2' - Sep. Pit	1,292 <i>mg/kg</i>

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by: Date:

P. O. BOX 2606 • FARMINGTON, NM 87499



OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:

Nelson Velez

Date:

2/7/95

Company: Blagg Engineering

Lab ID:

2621

Address:

P.O. Box 87

Sample ID: Job No.

Time:

5079 2-1000

City, State: Bloomfield, Nm 87413

R. P. Hargrave H 1

Project Name: Project Location:

4 @ 2' - Sep. Pit

Sampled by:

NV DC/DA Date: Date: 2/6/95 2/7/95 11:45

Analyzed by: Sample Matrix:

Soil

Aromatic Volatile Organics

Component	Measured Concentration ug/kg	Detection Limit Concentration ug/kg
Benzene	10.4	0.2
Toluene	69.0	0.2
Ethylbenzene	59.5	0.2
m,p-Xylene	922.3	0.2
o-Xylene	107.4	0.2
	TOTAL 1168.5 ug/kg	

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: 2/7/95

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