

Dehy-Bedrock - Risk - 12/13/01

80005

District I

P.O. Box 1980, Hobbs, NM

District II

Drawer DD, Artesia, NM 88211

District III

1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico

Energy, Minerals and Natural Resources Department

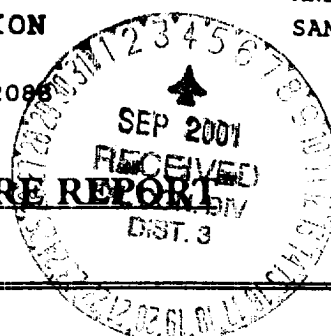
OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

PIT REMEDIATION AND CLOSURE REPORT



Operator: Amoco PRODUCTION COMPANY Telephone: 326-9200

Address: 200 Amoco COURT, FARMINGTON, NM 87401

Facility Or: WARREN LS 1A
Well Name

Location: Unit or Qtr/Qtr Sec J Sec 13 T28N R9W County SAN JUAN

Pit Type: Separator Dehydrator ✓ Other

Land Type: BLM ✓, State , Fee , Other

Pit Location: Pit dimensions: length 20', width 20', depth 6'
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 45

Direction from reference: 60 Degrees 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) 0

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) 0
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) 10
Greater than 1000 feet (0 points)

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: _____ Date Completed: 6/9/94

Remediation Method: Excavation ☒ Approx. cubic yards 915 5078
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____
Other _____

Remediation Location: Onsite ☒ Offsite _____
(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: _____
EXCAVATION. BEDROCK BOTTOM.

Dmcd letter correspondence 12-19-96
Ground Water Encountered: No ☒ Yes _____ Depth _____

Final Pit:
Closure Sampling:
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location SEE "CLOSURE VERIFICATION" SHEET

Sample depth 6'

Sample date 6-9-94 Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 302

TPH 2028 ppm

Ground Water Sample: Yes _____ No ☒ (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 6/13/94

SIGNATURE Buddy D Shaw

PRINTED NAME
AND TITLE

Buddy D Shaw
ENVIRONMENTAL COORDINATOR

ONSITE: 6/9/94

**ON SITE
TECHNOLOGIES, LTD.**
TOTAL PETROLEUM HYDROCARBONS

Attn: *Nelson Velez*
Company: *Blagg Engineering*
Address: *P.O. Box 87*
City, State: *Bloomfield, NM 87413*

Date: 6/10/94
Lab ID: 1566
Sample No. 1658
Job No. 2-1000

Project Name: *Amoco Production*
Project Location: *Warren LS 1A; 5 @ 6ft. - Dehy Pit*
Sampled by: NV Date: 6/9/94 Time: 1200
Analyzed by: DC Date: 6/10/94
Type of Sample: *Soil*

Laboratory Analysis

Laboratory Identification	Sample Identification	Total Petroleum Hydrocarbons
1658-1566	<i>Amoco Production</i> <i>Warren LS 1A; 5 @ 6ft. - Dehy Pit</i>	2028 mg/kg

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by:
Date:

[Signature]
6/10/94

FAX: (505) 327-1496 ■ 24 HR. - (505) 327-7105 ■ OFF.: (505) 325-8786
3005 NORTHRIDGE DRIVE ■ SUITE F ■ P. O. BOX 2606 ■ FARMINGTON, NEW MEXICO 87499

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SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COMPANY Telephone: 326-9200

Address: 200 AMOCO COURT, FARMINGTON, NM 87401

Facility Or: WARREN LS 1A
Well Name

Location: Unit or Qtr/Qtr Sec I Sec 13 T 28N R 9W County SAN JUAN

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: BLM ☒, State ☐, Fee ☐, Other ☐

Pit Location: Pit dimensions: length 16', width 16', depth 8'
(Attach diagram) Reference: wellhead ☒, other ☐

Footage from reference: 100

Direction from reference: 7 Degrees ☒ 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) 0

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) 0

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) 10

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: _____ Date Completed: 6/9/94

Remediation Method: Excavation ☒
(Check all appropriate sections)

Approx. cubic yards 40 78

Landfarmed ☒

Insitu Bioremediation _____

Other _____

Remediation Location: Onsite ☒ Offsite _____
(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: _____

EXCAVATION

Dmcd letter correspondence

12-19-96

Ground Water Encountered: No ☒ Yes _____ Depth _____

Final Pit:

Closure Sampling:

(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location SEE "CLOSURE VERIFICATION" SHEET

Sample depth 8'

Sample date 6/9/94

Sample time 1100

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 0.0

TPH 56

Ground Water Sample: Yes _____ No ☒ (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 6/13/94

SIGNATURE B. Shaw

PRINTED NAME
AND TITLE

Buddy D Shaw
Environmental Coordinator

**ON SITE
TECHNOLOGIES, LTD.**

TOTAL PETROLEUM HYDROCARBONS

Attn: *Nelson Velez*
Company: *Blagg Engineering*
Address: *P.O. Box 87*
City, State: *Bloomfield, NM 87413*

Date: 6/10/94
Lab ID: 1566
Sample No. 1657
Job No. 2-1000

Project Name: *Amoco Production*
Project Location: *Warren LS 1A; 5 @ 8ft. - Sep Pit*
Sampled by: NV Date: 6/9/94 Time: 1100
Analyzed by: DC Date: 6/10/94
Type of Sample: *Soil*

Laboratory Analysis

Laboratory Identification	Sample Identification	Total Petroleum Hydrocarbons
1657-1566	<i>Amoco Production</i> <i>Warren LS 1A; 5 @ 8ft. - Sep Pit</i>	56 mg/kg

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by: *[Signature]*
Date: 6/10/94

FAX: (505) 327-1496 ▪ 24 HR. - (505) 327-7105 ▪ OFF.: (505) 325-8786
3005 NORTHRIDGE DRIVE ▪ SUITE F ▪ P. O. BOX 2606 ▪ FARMINGTON, NEW MEXICO 87499



5009

[illegible]

Distribution:	White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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CLIENT: BP

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: 80005
C.D.C. NO: 8419

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: WARREN LS WELL #: 1A PITS: SEP, DEHY.
QUAD/UNIT: J SEC: 13 TWP: 28N RNG: 9W PM: Nm CNTY: SJ ST: NM
GTR/FOOTAGE: 18505/18507 NW/SE CONTRACTOR: P & S

DATE STARTED: 6/15/01
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: NV

SOL REMEDIATION:
REMEDICATION SYSTEM: STOCKPILED APPROX. CUBIC YARDAGE: 90
LAND USE: RANGE-BLM SF-077123 LIFT DEPTH (ft): NA

FIELD NOTES & REMARKS:
DEPTH TO GROUNDWATER: 2100' NEAREST WATER SOURCE: 21000' NEAREST SURFACE WATER: 21000'
NMOC RANKING SCORE: 0 NMOC TPH CLOSURE STD: 5000 PPM P.C. - 6/9/94
VERY PALE TO OR. YELL. ORANGE SAND WITH SANDSTONE FRAGMENTS, NON COHESIVE, DRY TO SLIGHTLY MOIST, LOOSE, NO APPARENT DISCOLORATION/STAINING OBSERVED OR HC ODOR DETECTED @ ANY OF THE SAMPLE PTS. OR OVM SAMPLE, COLLECTED 5 FT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

CLOSED

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SKETCH/SAMPLE LOCATIONS

47' NW FROM WELL HEAD

STOCKPILE PERIMETER

25' DIAMETER

FENCE

TANK PIT

DEHY

METER RUN

WELL HEAD

SAMPLE PT. DESIGNATION

134' STDW

27' FROM WELL HEAD

FENCE

TANK PIT

PROD. TANK

FENCE

TANK PIT

OVM CALIB. READ. 52.8 ppm
TIME: 0830 (am) pm 6/15/01

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
SP-1	0.0	SP-1	TPH (8015)	0920	5.6

SCALE
0 FT

TRAVEL NOTES: CALLOUT: N/A ONSITE: 6/15/01

revised: 03/12/01

bei1006.skd

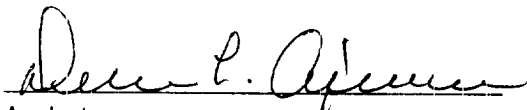
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	SP - 1	Date Reported:	06-20-01
Laboratory Number:	20069	Date Sampled:	06-15-01
Chain of Custody No:	8419	Date Received:	06-18-01
Sample Matrix:	Soil	Date Extracted:	06-19-01
Preservative:	Cool	Date Analyzed:	06-19-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

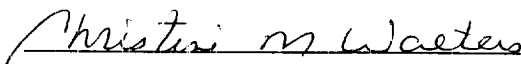
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	5.6	0.1
Total Petroleum Hydrocarbons	5.6	0.1

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Warren LS #1A Stockpiles. 5 Pt. Composite.


Analyst


Review

08419

Client / Project Name				Project Location		ANALYSIS / PARAMETERS										
BLAGG / BP				WARREN LEASE												
Sampler: NTU				Client No. 94034-CYD												
Sample No./ Identification		Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TH (2015)									Remarks
SP-1		6/15/01	0900	20069	SOIL	1	✓									PRESERVED COOL
LF-1		6/15/01	1000	20070	SOIL	1	✓									STOCKPILES WARREN LS #1A LANDFARM
LF-1		6/15/01	1230	20071	SOIL	1	✓									WARREN #4/E LANDFARM
LF-1		6/15/01	1330	20072	SOIL	1	✓									WARREN COM #3 LANDFARM WARREN LS 11