

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.
SF - 077974

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.

LODEWICK 4

2. Name of Operator
Amoco Production Company

9. API Well No.
3004506526

3. Address and Telephone No.
200 Amoco Court, Farmington, N.M. 87401 Tel: (505) 326-9200

10. Field and Pool, or Exploratory Area
Dakota

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SE/4 NW/4, SEC. 18, T 27 N, R 9 W, NMPM
F

11. County or Parish, State
SAN JUAN, NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other Pit closure	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Pit closure verification - see attached documentation.

SEPARATOR PLT - ABANDONED

RECEIVED
MAY - 4 1995
DEPUTY OIL & GAS INSPECTOR
OIL CON. DIV.
DIST. 3
JUL 11.8 1996

14. I hereby certify that the foregoing is true and correct

Signed

B. Shaw

Title

Enviro. Coordinator

Date

4/11/95

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

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

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: (505) - 326-9200
 Address: 200 Amoco Court, Farmington, New Mexico 87401
 Facility Or: LODEWICK 4
 Well Name _____
 Location: Unit or Qtr/Qtr Sec F Sec 18 T27N R9W County SAN JUAN
 Pit Type: Separator Dehydrator _____ Other _____
 Land Type: BLM , State _____, Fee _____, Other _____

Pit Location: Pit dimensions: length 20', width 39', depth 18'
 (Attach diagram) Reference: wellhead , other _____
 Footage from reference: 180'
 Direction from reference: 50 Degrees _____ East North _____
 of
 West South

Depth To Ground Water: Less than 50 feet (20 points)
 (Vertical distance from 50 feet to 99 feet (10 points)
 contaminants to seasonal Greater than 100 feet (0 Points) 0
 high water elevation of ground water)

Wellhead Protection Area: Yes (20 points)
 (Less than 200 feet from a private No (0 points) 0
 domestic water source, or; less than 1000 feet from all other water sources)

Distance To Surface Water: Less than 200 feet (20 points)
 (Horizontal distance to perennial 200 feet to 1000 feet (10 points) 0
 lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points) _____
 irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 4/11/95

Remediation Method: Excavation Approx. cubic yards 375
(Check all appropriate sections) Landfarmed _____ Insitu Bioremediation _____

Other COMPOSTED

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

General Description Of Remedial Action: _____

Excavation

Ground Water Encountered: No Yes _____ Depth _____

Final Pit: Sample location see Attached Documents

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

Sample depth _____

Sample date _____ Sample time _____

Sample Results

Benzene (ppm) _____

Total BTEX (ppm) _____

Field headspace (ppm) _____

TPH _____

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 4/11/95

SIGNATURE B. Shaw

PRINTED NAME AND TITLE

Buddy D. Shaw
ENVIRONMENTAL COORDINATOR

RESULTS TO JOHNNY 2-21-95 REE - WILL DIG MORE

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>B0224</u> C.O.C. NO: <u> </u>
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FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION NAME: <u>LODEWICK</u>	WELL #: <u>4</u>	PIT: <u>SEP.</u>	DATE STARTED: <u>2-20-95</u>
QUAD/UNIT: <u>F</u>	SEC: <u>18</u>	TWP: <u>27 N</u>	RNG: <u>9 W</u>
BM: <u>NM</u>	CNTY: <u>SJ</u>	ST: <u>NM</u>	DATE FINISHED: <u>4-5-95</u>
QTR/FOOTAGE: <u>SE/NW</u>	CONTRACTOR: <u>EPC</u>	ENVIRONMENTAL SPECIALIST: <u>RJS</u>	

EXCAVATION APPROX. 20 FT. x 39 FT. x 18 FT. DEEP. CUBIC YARDS: 375

DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: COMPOST

LAND USE: RANGE LEASE: 077974 FORMATION: DK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 180 FEET S50°W FROM WELLHEAD.

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000

NMDD RANKING SCORE: 0 NMDD TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION: ABANDONED

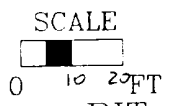
MOIST BROWN, SAND - SOME SILT + ODOUR APPARENT ON NORTH, EAST, SOUTH WALLS, AND BOTTOM.

BOTTOM @ ~ 20' GRAY STAINED + ODOUR.

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No.	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
<u>CB @ 20'</u>	<u>1377</u>	<u>10.0</u>	<u>20.0</u>	<u>-</u>	<u>640</u>	<u>1280</u>
<u>SS @ 10'</u>	<u>1378</u>	<u>10.0</u>	<u>20.0</u>	<u>10</u>	<u>630</u>	<u>12,600</u>
<u>3B @ 12'</u>	<u>1450</u>	<u>5</u>	<u>20</u>	<u>1:1</u>	<u>8</u>	<u>32</u>

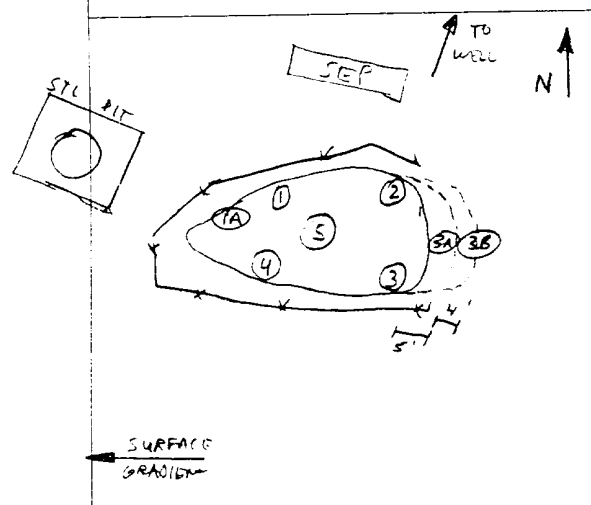
CLOSED



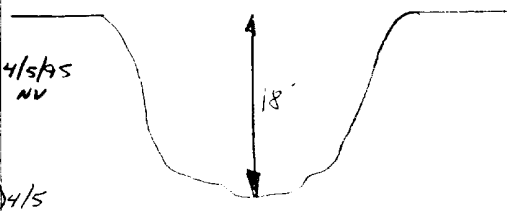
PIT PERIMETER

OVM RESULTS

PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
<u>1 NS - 14'</u>	<u>180</u>
<u>2 ES - 13'</u>	<u>16</u>
<u>3 SS - 10'</u>	<u>1066</u>
<u>4 WS - 12'</u>	<u>20</u>
<u>5 CB - 20'</u>	<u>1238</u>
<u>1A @ 12'</u>	<u>0.0</u>
<u>3A @ 12'</u>	<u>751</u>
<u>3B @ 12'</u>	<u>210.9</u>
LAB SAMPLES	
<u>3B @ 12</u>	<u>BTEX (1/55) 4/5</u>



TRAVEL NOTES: CALLOUT: 2-15-95 ONSITE: 2-20-95 0245

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:	C. Bottom @ 20'	Date Analyzed:	2-20-95
Project Location:	Lodewick 4	Date Reported:	2-20-95
Laboratory Number:	TPH-1377	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	1,300	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	4,760	4,400	8

*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 - B0224

R. E. O'Neil
Analyst

Review

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:	S. Side @ 10'	Date Analyzed:	2-20-95
Project Location:	Lodewick 4	Date Reported:	2-20-95
Laboratory Number:	TPH-1378	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	12,600	100

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	4,760	4,400	8

*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 - B0224

R. E. O'Neil
Analyst

Review

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

**FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS**

Client:	Amoco	Project #:	
Sample ID:	3B @ 12'	Date Analyzed:	04-07-95
Project Location:	Lodewick 4	Date Reported:	04-07-95
Laboratory Number:	TPH-1450	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	32	20

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	14000	13000	7.41

*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 - B0224

Nelson Velz
Analyst

R. E. O'Neil
Review

VOLATILE AROMATIC HYDROCARBONS

Blagg Engineering, Inc

Project ID:	Lodewick 4	Report Date:	04/09/95
Sample ID:	3B @ 12'	Date Sampled:	04/05/95
Lab ID:	796	Date Received:	04/07/95
Sample Matrix:	Soil	Date Extracted:	NA
Preservative:	Cool	Date Analyzed:	04/07/95
Condition:	Intact		


Target Analyte	Concentration (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	0.48
Toluene	0.79	0.48
Ethylbenzene	0.93	0.48
m,p-Xylenes	6.43	0.96
o-Xylene	5.13	0.48

ND - Analyte not detected at the stated detection limit.


Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	102	81 -117%
	Bromofluorobenzene	95	74 -121%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics;
Test Methods for Evaluating Solid Wastes, SW-846, United States
Environmental Protection Agency, Final Update I, July, 1992.

Comments:



Analyst



Review