B0237

Form 3160-5
(June 1990)

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

*SUBMIT IN TRIPLICATE*

5. Lease Designation and Serial No.
SF-078051

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
NEIL LS #7

2. Name of Operator
Amoco Production Company

9. API Well No.
3004511145

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

10. Field and Pool, or Exploratory Area
MESA VERDE

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1577'FSL, 1022'FWL, SEC. 33, T32N, R11W NMPM

11. County or Parish, State
SAN JUAN, N.M.

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

| TYPE OF SUBMISSION | TYPE OF ACTION | |
|---|---|---|
| ☐ Notice of Intent | ☐ Abandonment | ☐ Change of Plans |
| ☒ Subsequent Report | ☐ Recompletion | ☐ New Construction |
| ☐ Final Abandonment Notice | ☐ Plugging Back | ☐ Non-Routine Fracturing |
| | ☐ Casing Repair | ☐ Water Shut-Off |
| | ☐ Altering Casing | ☐ Conversion to Injection |
| | ☒ Other Pit closure | ☐ 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.

DEHYDRATOR PIT - ABANDONED

Denny G. Foust
DEPUTY OIL & GAS INSPECTOR
NOV 19 1996
Approved

RECEIVED
APR 11 1995
OIL CON. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct
Signed RA Shaw Title Enviro. Coordinator Date 3-3-95

(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

B0237

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: Well Name:** NEIL LS #7

**Location:** Unit or Qtr/Qtr Sec L Sec 33 T 32 N R 11 W County SAN JUAN

**Pit Type:** Separator ___ Dehydrator X Other ___

**Land Type:** BLM X, State ___, Fee ___, Other ___

**Pit Location:** (Attach diagram)
Pit dimensions: length 20', width 20', depth 6'
Reference: wellhead X, other ___
Footage from reference: 40
Direction from reference: 0 Degrees ___ 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)<br>50 feet to 99 feet (10 points)<br>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)<br>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)<br>200 feet to 1000 feet (10 points)<br>Greater than 1000 feet (0 points) | 0 |
| | **RANKING SCORE (TOTAL POINTS):** | 0 |

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APR 11 1995
OIL CON. DIV.
DIST. 3

B0237

**Date Remediation Started:** _____ **Date Completed:** 2-27-95

**Remediation Method:** (Check all appropriate sections) Excavation X Approx. cubic yards 50

Landfarmed X Insitu Bioremediation ___

Other _____

**Remediation Location:** (ie. landfarmed onsite, name and location of offsite facility) Onsite ___ Offsite NEAL #20

**General Description Of Remedial Action:** Excavation TO BEDROCK

**Ground Water Encountered:** No X Yes ___ Depth _____

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

Sample location see Attached Documents

Sample depth 3'

Sample date 2-27-95 Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 630

TPH 30 ppm

**Ground Water Sample:** Yes ___ No X (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 3-3-95

SIGNATURE B J Shaw PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator

RESULTS TO RON 2-27-95 PEO

CLIENT: AMOCO

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

LOCATION NO: B0237
C.O.C. NO: —

# FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: NAME: NEIL LS (OUTSIDE) WELL #: 7 PIT: DEHY
QUAD/UNIT: L SEC: 33 TWP: 32N RNG: 11W BM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 1577' FSL 1022' FW CONTRACTOR: MOSS

DATE STARTED: 2-27-95
DATE FINISHED: —
ENVIRONMENTAL SPECIALIST: PEO

EXCAVATION APPROX. 20 FT. x 20 FT. x 6 FT. DEEP. CUBIC YARDS: 50
DISPOSAL FACILITY: MEAL #20 REMEDIATION METHOD: LANDFARM
LAND USE: RANGE LEASE: SF-078051 FORMATION: MV

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 40 FEET SOUTH FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION: ABANDONED

PIT EXCAVATED TO SANDSTONE BOTTOM. SOME BOTTOM STAIN + ODOR.
SIDEWALLS — NO STAIN/ODOR.

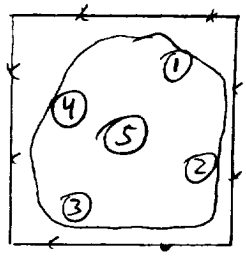
BEDROCK

FIELD 418.1 CALCULATIONS

| SAMPLE I.D. | LAB No: | WEIGHT (g) | mL. FREON | DILUTION | READING | CALC. ppm |
|---|---|---|---|---|---|---|
| ES @ 3' | 1395 | 10.0 | 20.0 | — | 15 | 30 |
| | | | | | | |
| | | | | | | |

SCALE
0 5 10 FT

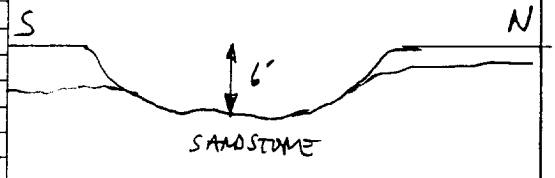
## PIT PERIMETER




## OVM RESULTS

| SAMPLE ID | FIELD HEADSPACE PID (ppm) |
|---|---|
| 1 NB - 3' | 1497 |
| 2 ES - 3' | 63 |
| 3 SS - 3' | 11 |
| 4 WS - 3' | 16 |
| 5 CB - 3' | 259 |
| LAB | SAMPLES |

## PIT PROFILE




TRAVEL NOTES: CALLOUT: 2-27-95 ONSITE: 2-27-95 1030

**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: | E Side @ 3' | Date Analyzed: | 2-27-95 |
| Project Location: | Neil LS 7 | Date Reported: | 2-27-95 |
| Laboratory Number: | TPH-1395 | Sample Matrix: | Soil |

| Parameter | Result, mg/kg | Detection Limit, mg/kg |
|---|---|---|
| Total Recoverable Petroleum Hydrocarbons | **30** | **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: Dehydrator Pit - B0237

R. E. O'Neill
Analyst

Review

| | |
|---|---|
| **Well Name:** | **Neil LS #7** |
| Well Site location: | Unit L, Sec. 33, T32N, R11W |
| Pit Type: | Dehydrator Pit |
| Producing Formation: | Mesaverde |
| Pit Category: | Area III |
| Horizonal Distance to Surface Water | > 1000 ft. |
| Vicinity Groundwater Depth: | > 100 ft. |

## RISK ASSESSMENT

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 6 feet below grade.

No past or future threat to surface water or groundwater is likely based on the following considerations:

1. Past production fluids were contained locally by a relatively shallow sandstone bedrock located 6 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below sandstone bedrock.

2. Topographic information does not indicate off site lateral fluid migration near the earthen pit.

3. Daily discharge into the earthen pit has been terminated (pit abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.

4. Field headspace readings (OVM/PID) on Mesaverde type locations do not reflect direct correlation to total BTEX per USEPA Method 8020 concentrations. Listed below are a few typical AMOCO Mesaverde pit soil analyses comparing headspace to Benzene and total BTEX results.

| LOCATION | HEADSPACE (ppm) | BENZENE (ppm) | TOTAL BTEX (ppm) |
|---|---|---|---|
| **L.C. Kelly #6A** | **833** | **0.033** | **2.857** |
| **Johnston LS 7** | **998** | **0.017** | **24.985** |
| **Neil LS 7A** | **819** | **0.282** | **0.440** |

The comparisons listed above demonstrates that headspace testing is not an accurate measurement to Benzene or total BTEX concentrations when above standards for Mesaverde type pits.

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and that the sandstone bottom creates enough of a permeable barrier as to subdue impact to groundwater below it (please refer to AMOCO's report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). AMOCO requests pit closure approval on this location.

RESULTS TO RON 2-27-95 PED

| CLIENT: AMOCO | BLAGG ENGINEERING, INC.<br>P.O. BOX 87, BLOOMFIELD, NM 87413<br>(505) 632-1199 | LOCATION NO: B0237<br>C.O.C. NO: — |
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DATE FINISHED: —
ENVIRONMENTAL SPECIALIST: RED

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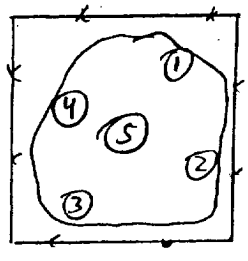


SURFACE GRADIENT

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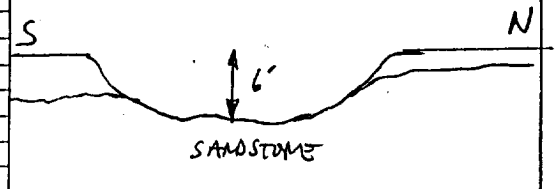


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