District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
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 HUGHES C #4

Location: Unit or Qtr/Qtr Sec A Sec 34 T 29 N R 8 W County SAN JUAN

Pit Type: Separator ___ Dehydrator ___ Other COMPRESSOR

Land Type: BLM ✓, State ___, Fee ___, Other ___

Pit Location: (Attach diagram)
Pit dimensions: length 41', width 67', depth 4'
Reference: wellhead X, other ___
Footage from reference: 50
Direction from reference: 86 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)	0
	RANKING SCORE (TOTAL POINTS):	0

B0767 COMPR. PIT

Date Remediation Started: _____ **Date Completed:** 8/21/00

Remediation Method: (Check all appropriate sections) Excavation ✓ Approx. cubic yards 375

Landfarmed ___ Insitu Bioremediation ___

Other COMPOSTED

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite ___ Offsite NYE GC B#1E (E-7-29-9)

TRANSPORTED TO CROUCH MESA 3/01. NV

General Description Of Remedial Action:

Excavation. MOSTLY BEDROCK. ALL SAMPLES COLLECTED FROM BEDROCK, THEREFORE NO TPH ANALYSIS WAS CONDUCTED.

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 Attached Documents

Sample depth 2' (SOUTH SIDEWALL)

Sample date 8/21/00 Sample time 0845

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 219.9 / 139.1 (PIT BOTTOM)

TPH NA

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 8/21/00

SIGNATURE BJ Shaw PRINTED NAME AND TITLE Buddy D. Shaw ENVIRONMENTAL COORDINATOR

CLIENT: AMOCO

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

LOCATION NO: 80767
C.O.C. NO: _____

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: HUGHES C WELL #: 4 PIT: COMPR -
QUAD/UNIT: A SEC: 34 TWP: 29N RNG: 8W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 990'N/890'E NENE CONTRACTOR: P&S

DATE STARTED: 8/21/00
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: NV

EXCAVATION APPROX. 41 FT. x 67 FT. x 4 FT. DEEP. CUBIC YARDAGE: 375
DISPOSAL FACILITY: NME GC B1E (E-7-29-9) REMEDIATION METHOD: COMPOSTED
LAND USE: RANGE LEASE: SF-078049 FORMATION: MV

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 50 FT. S86W FROM WELLHEAD
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

CHECK ONE:
✓ PIT ABANDONED
___ STEEL TANK INSTALLED
___ FIBERGLASS TANK INSTALLED

OVM CALIB. READ. 53.1 ppm
TIME: 9:00 am/pm 8/19/00

SOIL AND EXCAVATION DESCRIPTION:

EXCAVATION MOSTLY BEDROCK (SANDSTONE) PALE YELL. BROWN TO OLIVE GRAY IN COLOR, FRIABLE BUT HARD ON MOST OF THE SIDEWALLS, VERY HARD @ BOTTOM, STAINING EVIDENT OF SOUTH PORTION OF EAST SIDEWALL (0.5 - 1.0' INTERVAL @ 2' BELOW GRADE) & SOUTH SIDEWALL, ALL SAMPLES COLLECTED FROM BEDROCK, THEREFORE NO TPH ANALYSIS WAS CONDUCTED.

MOSTLY BEDROCK (SS)

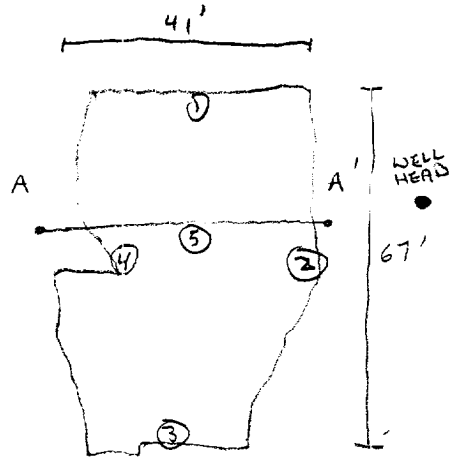
RISK ASSESSED

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
0845							

SCALE
0 FT

PIT PERIMETER



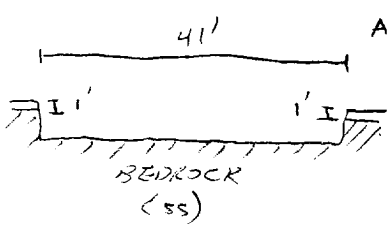
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 2'	0.0
2 @ 2'	185.2
3 @ 2'	219.9
4 @ 2'	0.0
5 @ 4'	139.1

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

PIT PROFILE



TRAVEL NOTES: CALLOUT: 8/18/00 - AFTER. ONSITE: 8/21/00 - MORN.

Well Name:	**Hughes C #4**
Well Site location:	Unit A, Sec. 34, T29N, R8W
Pit Type:	Compressor Pit
Producing Formation:	Mesa Verde
Pit Category:	Non Vulnerable
Horizontal Distance to Surface Water:	> 1000 ft.
Vicinity Groundwater Depth:	> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered competent sandstone at 4 feet below grade.

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

1. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below shallow 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. Well site located within the **non-vulnerable area** and is approximately 0.70 miles northwest of the nearest vulnerable area boundary (Jasis Canyon wash).

   (Refer to Cutter Canyon Quadrangle, New Mexico - San Juan County, 7.5 Minute Series (Topographic), Provisional edition, 1985, (vulnerable area boundary developed by Mr. William C. Olson, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division).

Based upon the information given, we conclude that the subsurface lateral and vertical impact from the earthen pit is very limited and that the sandstone bottom creates enough of a impermeable 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). BP AMOCO therefore request pit closure approval on this location.

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Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: HUGHES C #4
Well Name

Location: Unit or Qtr/Qtr Sec A Sec 34 T29N R8W County SAN JUAN

Pit Type: Separator ✓ Dehydrator ___ Other ___

Land Type: BLM ✓, State ___, Fee ___, Other ___

Pit Location: (Attach diagram)
Pit dimensions: length 29', width 19', depth 4'
Reference: wellhead X, other ___
Footage from reference: 69'
Direction from reference: 29 Degrees ✓ East ___ West North ✓ South ___ of

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)	0
	RANKING SCORE (TOTAL POINTS):	0

80767 SEP. PIT

Date Remediation Started: _____ **Date Completed:** 8/21/00

Remediation Method: (Check all appropriate sections) Excavation ✓ Approx. cubic yards 75

Landfarmed ___ Insitu Bioremediation ___

Other COMPOSTED

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

General Description Of Remedial Action: Excavation, MOSTLY BEDROCK. ALL SAMPLES COLLECTED FROM BEDROCK, THEREFORE NO TPH ANALYSIS WAS CONDUCTED.

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 Attached Documents

Sample depth 2' (EAST SIDEWALL)

Sample date 8/21/00 Sample time 0730

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 93.8 / 0.0 (PIT BOTTOM)

TPH NA

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 8/21/00

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

CLIENT: AMOCO

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

LOCATION NO: 80767
C.O.C. NO: _____

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: HUGHES C WELL #: 4 PIT: SEP.
QUAD/UNIT: A SEC: 34 TWP: 29N RNG: 8W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 990'N/890'E NENE CONTRACTOR: P+S

DATE STARTED: 8/21/00
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: NJ

EXCAVATION APPROX. 29 FT. x 19 FT. x 4 FT. DEEP. CUBIC YARDAGE: 75
DISPOSAL FACILITY: NYE GC BIE (F-7-29-9) REMEDIATION METHOD: Composted
LAND USE: RANGE LEASE: SF-078049 FORMATION: MV

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 69 FT. NNE FROM WELLHEAD
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

CHECK ONE
✓ PIT ABANDONED
___ STEEL TANK INSTALLED
___ FIBERGLASS TANK INSTALLED

OVM CALIB. READ. 53.1 ppm
TIME: 9:00 (am) pm 8/19/00

SOIL AND EXCAVATION DESCRIPTION:

EXCAVATION MOSTLY BEDROCK (SANDSTONE), PALE YELL-BROWN TO OLIVE GRAY IN COLOR, FRIABLE BUT HARD ON MOST OF THE SIDEWALLS, VERY HARD @ BOTTOM, NO APPARENT DISCOLORATION OR STAINING OBSERVED, ALL SAMPLES COLLECTED FROM BEDROCK, THEREFORE NO TPH ANALYSIS WAS CONDUCTED.

MOSTLY BEDROCK (SS)

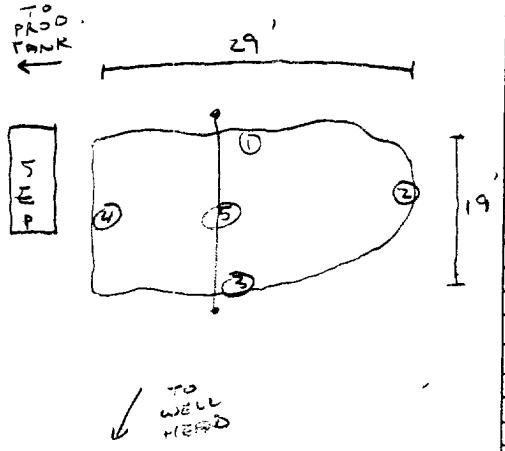
CLOSED

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
0730							

SCALE
0 FT

PIT PERIMETER



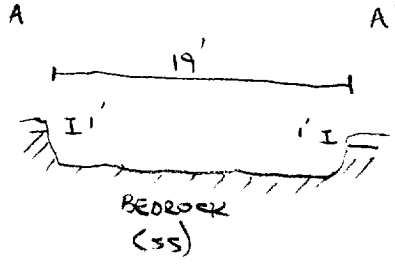
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 2'	32.8
2 @ 2'	93.8
3 @ 2'	0.0
4 @ 2'	34.4
5 @ 4'	0.0

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

PIT PROFILE



TRAVEL NOTES: CALLOUT: 8/18/00 - MORN. ONSITE: 8/21/00 - MORN.