

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

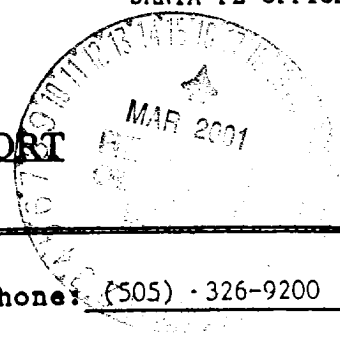
State of New Mexico
Energy, Minerals and Natural Resources Department

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

9/12/01

PIT REMEDIATION AND CLOSURE REPORT



Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: HUGHES #3
Well Name
Location: Unit or Qtr/Qtr Sec P Sec 20 T 29N R 8W County SAN JUAN
Pit Type: Separator Dehydrator Other ABANDONED PRODUCTION TANK
Land Type: BLM ✓, State , Fee , Other

Location: Pit dimensions: length NA, width NA, depth NA
(each diagram) Reference: wellhead X, other
Footage from reference: 117'
Direction from reference: 9 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)

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 6/6/00

Remediation Method: Excavation ☒ Approx. cubic yards NA
(check all appropriate sections) Landfarmed _____ Insitu Bioremediation _____
Other CLOSE AS

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

General Description Of Remedial Action: _____

Excavation, BEDROCK BOTTOM. RISK ASSESSED. SAMPLE COLLECTED FROM
BEDROCK, THEREFORE NO TPH ANALYSIS WAS CONDUCTED.

Ground Water Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location see Attached Documents
Closure Sampling:
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 6' (TEST HOLE BOTTOM)Sample date 6/6/00 Sample time 1010

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 209TPH NAGround 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 6/6/00

SIGNATURE

B. ShawPRINTED NAME
AND TITLEBuddy D. Shaw
Environmental Coordinator

3004523489																																						
CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>60755</u> C.O.C. NO: _____																																				
FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																				
LOCATION: NAME: <u>HUGHES</u> WELL #: <u>3</u> PIT: <u>ABAND. PROD. TANK</u>		DATE STARTED: <u>6/6/00</u>																																				
QUAD/UNIT: <u>P</u> SEC: <u>20</u> TWP: <u>29N</u> RNG: <u>8W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u>		DATE FINISHED: _____																																				
QTR/FOOTAGE: <u>990S/1140E</u> SESE CONTRACTOR: <u>FLINT</u>		ENVIRONMENTAL SPECIALIST: <u>NV</u>																																				
EXCAVATION APPROX. <u>NA</u> FT. x <u>NA</u> FT. x <u>NA</u> FT. DEEP. CUBIC YARDAGE: <u>NA</u>																																						
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>CLOSE AS IS</u>																																						
LAND USE: <u>RANGE</u> LEASE: <u>3F-078046</u> FORMATION: <u>OK</u>																																						
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>117</u> FT. <u>N9W</u> FROM WELLHEAD.																																						
DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>																																						
NMOCD RANKING SCORE: <u>0</u> NMOCD TPH CLOSURE STD: <u>5000</u> PPM																																						
SOIL AND EXCAVATION DESCRIPTION: <div><div>OVM CALIB. READ. <u>53.4</u> ppm</div><div>TIME: <u>0906</u> am/pm <u>6/6/00</u></div><div>CHECK ONE: <input checked="" type="checkbox"/> PIT ABANDONED <input type="checkbox"/> STEEL TANK INSTALLED <input type="checkbox"/> FIBERGLASS TANK INSTALLED</div></div>																																						
<p>OLIVE GRAY CLAY PASSING INTO SHALE, SHALE SOFT TO HARD (TEST HOLE BOTTOM), FRAGILE, HC ODOR DETECTED, OVM SAMPLE COLLECTED FROM BEDROCK, THEREFORE NO TPH ANALYSIS WAS CONDUCTED.</p>																																						
<div><div>BEADROCK BOTTOM</div><div>RISK ASSESSED</div><div>SCALE 0 FT</div></div>																																						
FIELD 418.1 CALCULATIONS																																						
<table border="1"><thead><tr><th>TIME</th><th>SAMPLE I.D.</th><th>LAB No:</th><th>WEIGHT (g)</th><th>mL. FREON</th><th>DILUTION</th><th>READING</th><th>CALC. ppm</th></tr></thead><tbody><tr><td>1010</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>			TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm	1010																											
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<div><div>PIT PERIMETER</div><div>OVM RESULTS</div><div>PIT PROFILE</div></div>																																						
<div><div>15 x 15 x 3</div><div>TEST HOLE APPROX. 3' BELOW PIT DEPRESSION</div><div>PIT DEPRESSION APPROX. 3' BELOW GRADE</div><div>PROD. TANK</div><div>TO WELL HEAD</div></div> <div><table border="1"><thead><tr><th>SAMPLE ID</th><th>FIELD HEADSPACE PID (ppm)</th></tr></thead><tbody><tr><td>1 @ 6'</td><td>209</td></tr><tr><td>2 @</td><td></td></tr><tr><td>3 @</td><td></td></tr><tr><td>4 @</td><td></td></tr><tr><td>5 @</td><td></td></tr></tbody></table><div>LAB SAMPLES</div><table border="1"><thead><tr><th>SAMPLE ID</th><th>ANALYSIS</th><th>TIME</th></tr></thead><tbody><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></tbody></table></div> <div>NOT APPLICABLE</div>			SAMPLE ID	FIELD HEADSPACE PID (ppm)	1 @ 6'	209	2 @		3 @		4 @		5 @		SAMPLE ID	ANALYSIS	TIME																					
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Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Hughes #3

Unit P, Sec. 20, T29N, R8W

Production Tank Pit

Basin Dakota

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered competent shale at 6 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 shale 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 0.85 miles northwest of the nearest vulnerable area boundary (Cutter 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 impact from the earthen pit is very limited and that the shale 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.