B025

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

DEPUTY OIL & GAS INSPECTOR
MAR 12 1997

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: Amoco Production Company **Telephone:** (505) 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: Well Name JACK FROST DIE

Location: Unit or Qtr/Qtr Sec N Sec 26 T 27 N R 10 W County SAN JUAN

Pit Type: Separator ___ Dehydrator X Other ___

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

Pit Location: (Attach diagram)
Pit dimensions: length ___, width ___, depth ___
Reference: wellhead X, other ___
Footage from reference: 155'
Direction from reference: 37 Degrees ___ East X 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

RECEIVED
DEC 18 1996
OIL CON. DIV.
DIST. 3

Date Remediation Started: _____ **Date Completed:** 4/13/95

Remediation Method: (Check all appropriate sections) Excavation X Approx. cubic yards 350

Landfarmed ___ Insitu Bioremediation ___

Other COMPOSTED

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite ___ Offsite X JACK FROST C1

General Description Of Remedial Action:

Excavation

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

MULTIPLE SAMPLES

Sample depth 20'

Sample date 3-30-95 Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 681

TPH 10,000 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 4/13/95

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: B0253 C.O.C. NO:

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: Jack Frost WELL #: 01C PIT: Oil Pit

QUAD/UNIT: N SEC: 26 TWP: 27N RNG: 10W PM: NM CNTY: SJ ST: NM

QTR/FOOTAGE: SE/4 SW/4 CONTRACTOR: Pit Measurers

DATE STARTED: 3/30/95

DATE FINISHED:

ENVIRONMENTAL SPECIALIST: NV

EXCAVATION APPROX 26 FT. x 32 FT. x 22 FT. DEEP. CUBIC YARDAGE: 550

DISPOSAL FACILITY: Jack Frost C1 REMEDIATION METHOD: composted

LAND USE: Range LEASE: SF-078151 FORMATION: Dk

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 155 FT. N37E 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

SOIL AND EXCAVATION DESCRIPTION:

MOSTLY DK. YELL. ORANGE SAND w/ some GRAVEL, BOTTOM CONSIST OF DK. YELL. BROWN CLAY WHICH IS PLASTIC, SLIGHTLY MOIST, STIFF, STRONG HC ODOR IN OVM SAMPLE), NON-COHESIVE, SLIGHTLY MOIST, FIRM, STRONG HC ODOR IN ALL SIDEWALL OVM SAMPLES.

(EL PASO PIT ?)

ADDITIONAL EXCAVATION NOT TESTING, PRESUMED STILL INDICATING CONTAMINATION THROUGHOUT

CONDITIONAL

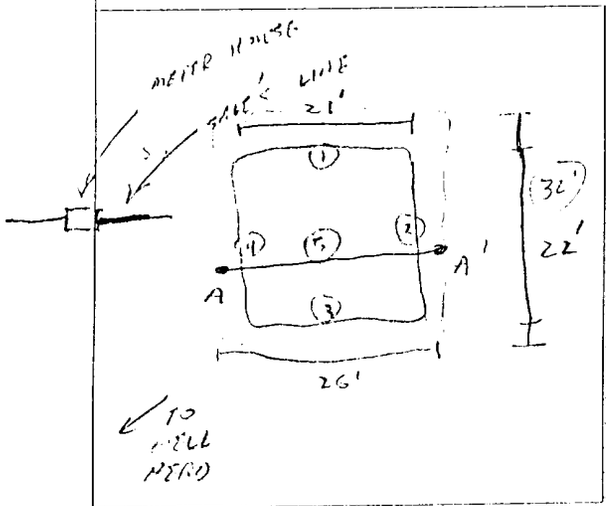
FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1025	(3) @ 16'	NM-1426	5	20	10:1	177	7,080
1100	(5) @ 20'	NM-1429	5	20	10:1	250	10,000

SCALE

0 FT

PIT PERIMETER



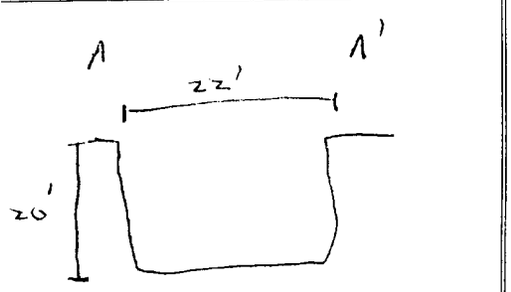
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)	
1 @ 16'	762	713
2 @ 14'	806	738
3 @ 16'	965	783
4 @ 15'	742	667
5 @ 20'	569	681

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

PIT PROFILE



TRAVEL NOTES: CALLOUT: 3/30/95 ONSITE: 3/30/95

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:	3 @ 16'	Date Analyzed:	03-30-95
Project Location:	Jack Frost D 1E	Date Reported:	03-30-95
Laboratory Number:	TPH-1428	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	7,100	200

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: Dehydrator Pit - B0253

Analyst

R. E. Oneal
Review

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FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	
Sample ID:	5 @ 20'	Date Analyzed:	03-30-95
Project Location:	Jack Frost D 1E	Date Reported:	03-30-95
Laboratory Number:	TPH-1429	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	**10,000**	**200**

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: Dehydrator Pit - B0253

Nelson Velez
Analyst

R. E. O'Neill
Review

Well Name:	**Jack Frost D #1E**
Well Site location:	Unit N, Sec. 26, T27N, R10W
Pit Type:	Dehydrator Pit
Producing Formation:	Basin Dakota
Pit Category:	Non Vulnerable
Horizonal Distance to Surface Water:	> 1000 ft.
Vicinity Groundwater Depth:	> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe reached vertical practical extent.

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 presumed shallow sandstone bedrock based on topographic and informal site survey of nearby bedrock outcrop information.

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 greater than 0.25 miles southeast of the nearest vulnerable area boundary (East Fork Kutz Canyon Wash).

   (Refer to Huerfanito Peak 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 vertical impact to groundwater is very unlikely. AMOCO requests pit closure approval on this location.