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District I P.O. Box 1950, Hobbs, NM

State of New Mexico Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

District fri

STRICT DEPUTY OIL & GAS INSPECTOR OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

HAR I 8 1997

PIT REMEDIATION AND CLOSURE REPORT

1/1/10	ext :	
The second way	Amoco Production Compa	Telephone: (505) - 326-9200
Address:	200 Amoco Court, Farmi	ngton, New Mexico 87401
Well Name	6 CY 191 E	
		Sec 32 T 28 N R 12 W County SAW JUNN
		, other UNIT AGREEMENT
Pit Location: (Attach diagram)	Reference: wellhear Footage from refere	ength Zo', width IS', depth IS' ad X, other ence: 140 erence: 30 Degrees X East North X of West South
Depth To Groun (Vertical distance contaminants to some thing the solution of t	ce from seasonal	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)
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) OEL COM. DIV.
Distance To Su (Horizontal distallakes, ponds, ri- irrigation canal	ance to perennial vers, streams, creeks,	Ilessiman 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points) RANKING SCORE (TOTAL POINTS):
		WHILTHO COOKS (2001)

		Data : damalata*	2-31-95					
Date Remediation St.	arted:	Date Completed:						
Remediation Method: (Check all appropriate sections)	Excavation X	Approx. cubic yards						
	Landfarmed <u>X</u>	Insitu Bioremediation						
	Other							
Remediation Locatio	\mathbf{n} : Onsite X Of	fsite						
	(ie. landfarmed onsite,							
offsite facility)								
General Description Of Remedial Action:								
Excavatio	on							
	V	V Donth	-					
Ground Water Encoun	tered: No 🔨	Yes Depth						
		Attached Documents						
Final Pit: Closure Sampling:	Sample location _	see Attached Documents						
(if multiple samples, attach sample results		(
and diagram of sample locations and depths)	Sample depth	lo						
locations and depens,	Sample date 3	Sample time						
	Sample Results							
	Benzene(ppm)							
	Total BTEX()	ppm)						
Field headspace(ppm) 570								
	трн 2800							
								
Ground Water Sample: Yes No $\frac{\chi}{\chi}$ (If yes, attach sample results)								
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST								
T HEREBY CERTIFY THE OF MY KNOWLEDGE AND	AT THE INFORMATION BELIEF	N VROAE IP LEAF WAD COMPER	IL IO IND DUCK					
RACT PRINTED NAME DOCA COLL STOR								
SIGNATURE (2)	raw And TI	LINY /KONMENIA						

CLIETTE AMO CO	Р.О. ВОХ 87, В	NGINEERING, LOOMFIELD, N) 632-1199		C.O.C. NO:			
FIELD REPORT: PIT CLOSURE VERIFICATION							
LOCATION: NAME: 6CC QUAD/UNIT: 6 SEC: QUE/FULLTAGE: SW/	32 TWP-28 N RNG-17	2 W BM AM CNT	5. 5 J ST. N19	DATE FINISHED:			
EXCAMATION APPROX DISPOSAL FACILITY: _ LAND USE:	ON SITE	T. × <u>15</u> FT. DC PEMEDIA	EP. CUBIC	C YARDS: 100			
FIELD MOTES & REMARKS: PIT LUCATED APPROXIMATELY 140 FEET N30°E FROM WELLHEAD. DEPTH TO GROUNDWATER 700 NEAREST WATER STURGE: 71000 NEAREST SURFACE WATER: 71000							
NMOUD PANKING SCURE:			AB AND ONFID				
LOCATION OF EDGE OF				ļ			
SOIL IS MOIST, BROWN, OUM IS LOW - BTE SAMPLE I. WS @10 SCALE O S 10FT PIT PERIM	ETER RI	BL CALCULATIONS M. FREON DILUTION 20.0 [O OVM ESULTS	READING CALC.				
SUPPRE / FO WELL HE	1 NS-10 2 ES - 10 3 W S - 11 4 CB - 16 5	AB SAMPLES		15'			
TRAVEL NOTES: CALLOUT: 3-30-45 ONSITE: 3-31-45 0405							

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:

West Side @ 10'

Date Analyzed:

3-31-95

Project Location:

GCU 191E

Date Reported:

3-31-95

Laboratory Number:

TPH-1434

Sample Matrix:

Soil

Parameter

Result, mg/kg

Detection Limit, mg/kg

.____

Total Recoverable

Petroleum Hydrocarbons

2,800

100

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample

Duplicate

%

TPH mg/kg

TPH mg/kg

*Diff.

14,000

13,000

7

*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 - B0255

R. E ONall Analyst Molron VIII Review Well Name:

Well Site location:

(1,460 FNL, 1,460 FEL) Unit G, Sec. 32, T28N, R12W

Pit Type:

Producing Formation:

Basin Dakota

Pit Category:

Non Vulnerable

Horizonal Distance to Surface Water:

Vicinity Groundwater Depth:

SCU #191E

(1,460 FNL, 1,460 FEL) Unit G, Sec. 32, T28N, R12W

Separator Pit

Basin Dakota

Non Vulnerable

> 1000 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when practical vertical extent was reached with a trackhoe. Horizontal extent was ceased due to surrounding equipment and piping.

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 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 <u>non-vulnerable area</u> and is approximately 0.15 miles east of the nearest vulnerable area boundary (Gallegos Canyon Wash).
 - (Refer to <u>Hugh Lake Quadrangle, New Mexico San Juan County, 7.5 Minute Series</u> (<u>Topographic</u>), 1965, photorevised, 1979, (vulnerable area boundary developed by <u>Mr. William C. Olson, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division</u>).
- 5. Field headspace readings (OVM/PID) on Basin Dakota type locations do not reflect direct correlation to total BTEX per USEPA Method 8020 concentrations. Listed below are several typical AMOCO Basin Dakota pit soil analyses comparing headspace to Benzene and total BTEX results.

LOCATION	HEADSPACE (ppm)	BENZENE (ppm)	TOTAL BTEX (ppm)
Frost, Jack B 1E	1100	0.011	5.889
Berger A1	482	0.084	0.681
Mudge Com B 1E	684	0.017	16.438
L.C. Kelly #5	1235	0.643	13.908

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

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.