Sep-Risk bed-C4926

P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
3trict 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 87504-2086

DECEIVED

PIT REMEDIATION AND CLOSURE REPORT 999

			- DEEL & IV	W.	
Operator:	Amoco Production Company	.	• •	(505) - 326-9	
Address:	200 Amoco Court, Farmingt	on, New Mexico	87401		
Well Name	COWFRID GC or Qtr/Qtr Sec_M		R /Zル County S	AN JUAN	
Pit Type: Sepa	rator Dehydrator	Other Proof	1010N TANK		
	M, State, Fee _				
Pit Location: Attach diagram)	Pit dimensions: leng Reference: wellhead Footage from reference Direction from refere	\times , other _	egrees Ea		
Depth To Ground (Vertical distance contaminants to a high water elevate ground water)	ce from seasonal	50 feet to	50 feet o 99 feet han 100 feet	(10 points))
domestic water so	ection Area: eet from a private ource, or; less than ll other water sources)		Yes No	(20 points (0 points	0
	ance to perennial vers, streams, creeks,	200 feet	200 feet to 1000 feet han 1000 fee) 0
		RANKING 8	CORE (TOTAL	POINTS):	0

		C4926	Reso. Tank PIT
Date Remediation St	arted:	Date Completed:	8/3/93
.emediation Method:			•
(Check all appropriate sections)	Landfarmed	Insitu Bioremediation	
	Other		
	,		
Remediation Locatio (ie. landfarmed onsite, name and location of offsite facility)	n: OnsiteO	ffsite X Amoco Chouch M	NESA FACULITY
General Description	Of Remedial Actio	on:	
Excavation	on . LISK ASSESSI	ED.	
Ground Water Encoun	tered: No 😾	Yes Depth	
Final Pit:	Sample location	see Attached Documents	
Closure Sampling: (if multiple samples,			
attach sample results and diagram of sample	Sample depth	30' (PT BOTTOM)	
locations and depths)	Sample date 8	$\sqrt{2/93}$ Sample time	1500
	Sample Results		
	Benzene(ppm)	*	
	Total BTEX(p	ppm)	
	Field headsr	pace(ppm) 1054	
	TPH 5,300	ppm	
Ground Water Sample:	Yes No _	\times (If yes, attach sample	results)
I HEREBY CERTIFY THA	T THE INFORMATION	ABOVE IS TRUE AND COMPLET	FE TO THE BEST
of MY KNOWLEDGE AND	BELIEF		
DATE 9/5/	PRINTED	NAME Buddy D. S	haul.
SIGNATURE (2) 5 h	aw and tit	LE Enviendantal	Zone dinate

ENVIROTECH Inc.	
5796 US HWY. 64, FARMINGTON, NM 87401 (505) 632-0615	(c 4926 94926)
FIELD REPORT: CLOSURE VERIFICATION	JOB No:
LOCATION: LEASE: ROLAND WELL SEC 1E QD: (M) SW/4 SW/4 SEC: ZS TWP: 30N RNG: / ZW BM: NM CNTY: SAN JURIST: NM PIT: PROD CONTRACTOR:	DATE STARTED: 8/2/93 DATE FINISHED: 8/2/93
EQUIPMENT USED: TRREMHOE	ENVIRONMENTAL NU SPECIALIST:
SOIL REMEDIATION: QUANTITY: 10 x 10 x 30 100 c	·
DISPOSAL FACILITY: CRONCH MESA COMPOST	
SURFACE CONDITIONS:	
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 25 YARDS 5	10°W FROM WELLHEAD.
DEPTH TO GROUNDWATER: 50-100 FT. 910 5/25/98	
NEAREST SURFACE WATER: > 1000 FT	
DK. YELLOWISH ORANGE TO GRAVISH BROWN SAND, NON TO DRY TO MOIST LOOSE TO HARD. PIT BOTTOM CONSIST OF	SLIGHTLY COHESINE,
MYDLOCARBOL ODOR, MOIST, & SLIGHTLY PLASTIC CLAYEY'S	SOIL W/ STRONG
RISK ASSESSED	
FIELD 418.1 CALCULATIONS	
SAMPLE I.D. LAB No: WEIGHT (g) ML. FREON DILUTION READING (CALC. ppm
	· ·
SCALE	
O FEET N OVM	
PIT PERIMETER RESULTS PIT	PROFILE
SAMPLE FIELD HEADSPACE PID (ppm)	
SURTACE DEZG' 4.5	- -
WELL PERINETER BEZY 1192	
GERV 1054	s'1 A'
1-8-1	GROWAD
T D & CY18.1	2 MURACE
PROPERTY LAST AND LAR SAMPLE	/ =
PROPIPITY TO THE TANK PIET TO THE TANK P	/ =
	_
	3 =
TRIK PERIMETER	<u></u>
	8 — 1
TRAVEL NOTES: CALLOUT: 7/31/93 ONSITE: 8/2/93	

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Rowland GC #1E

Unit M, Sec. 25, T30N, R12W Production Tank Pit Basin Dakota

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

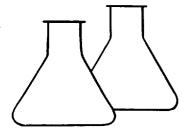
Pit remediation activities were terminated when trackhoe reached practical extent for abandoned pit at 30 ft. below grade and for safety concerns (underground piping and surface equipment).

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 (based on formal site observation of on-site separator pit located approximately southeast, 95 lateral feet from pit center to pit center).
- 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 0.08 miles southwest of the nearest vulnerable area boundary (Jones Arroyo).

(Refer to Flora Vista Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), photorevised 1979, (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 and lateral contamination is limited and impact to groundwater is very unlikely. AMOCO requests pit closure approval on this location.



ENVIROTECH LABS

5796 US Highway 64-3014 • Farmington, New Mexico 87401 Phone: (505) 632-0615 • Fax: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Amoco Project #: 92140 Sample ID: 5 @ 30' Date Sampled: 08-02-93 Laboratory Number: 5818 Date Received: 08-02-93 Sample Matrix: Soil Date Analyzed: 08-03-93 Preservative: Cool Date Reported: 08-03-93 Condition: Cool & Intact Analysis Needed: TPH

Concentration Limit
Parameter (mg/kg) (mg/kg)
Total Petroleum
Hydrocarbons 5,300 50.0

ND = Parameter not detected at the stated detection limit. N/A = Not applicable

Method:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and

Waste, USEPA Storet No.4551, 1978

Comments: Roland GC #1E, Production Pit, C4926.

analyst Chaharley

Review

C+ 725		TERS	Remarks									Date Time	8-2-12 84-2-8			ean juan repro Form \$78-81
	•	ANALYSIS/PARAMETERS		- /-	21h)	>						ignature)	1. (S. (S. (S. 1911)	ignature)	ignature)	01
CHAIN OF CUSTODY RECORD	PROP. PTT	GC # 1E		to sneni	Sample Zoura	2015	7					Date Time Received by: (Signature)	2/93 1558 1860	Recei	Received by: (Signature)	ENVIROTECH INC. 5796 U.S. Highway 64-3014 Farmington, New Mexico 87401 (505) 632-0615
	Project Location	COLAND GO	Chain of Custody Tape		Lab Number	58/8							8			
		72.140		•	s Sample Time	3 1500							6	P		
		32	_	30	Sample Date	2(2/3		·				ure)	هنا الم	ure)	ure)	
	Client/Project Name	41.10 00	Sampler: (Signature)	Rekon	Sample No./ Identification	(5) (2 30'						Relinquished by: (Signature)	(chan	Relinquished by: (Signature)	Relinquished by: (Signature)	

C4975

 District I P.O. Box 1980, Hobbs, NM District II P.O. Drawer DD, Artesia, NM \$8211 strict III 1000 Rio Brazos Rd, Aztec, NM \$7410

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OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

PIT REMEDIATION AND CLOSURE REPORT

Operator:	Amoco Production Company	Telephone: (505) - 326-9200						
Address:	200 Amoco Court, Farmington	, New Mexico 87401						
Facility Or:	LOWLAND GC	#/E						
Location: Unit	or Qtr/Qtr SecMs	ec Z5 T30N R /ZW County SAN JUAN						
Pit Type: Sep	arator \times Dehydrator $_{}$ C	Other						
Land Type: B	LM, State, Fee 🔀	, Other						
Pit Location: Attach diagram)	Reference: wellhead $ imes$	Z7' , width 3Z' , depth ZZ'						
	Footage from reference:							
	Direction from reference	e: <u>75</u> Degrees <u>East North</u> of <u>X</u> West South <u>X</u>						
Depth To Group (Vertical distant contaminants to high water eleval ground water)	seasonal	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)						
domestic water s	ection Area: eet from a private ource, or; less than ll other water sources)	Yes (20 points) O						
**	ance to perennial vers, streams, creeks,	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)						
		RANKING SCORE (TOTAL POINTS):						

								
			ENVI	ROTECH	Inc.			
		579	06 US HWY. (50	64, FARMING 5) 632-0615		87401	(249 (949	}
FIE	ELD REPO	RT: CI	LOSURE	VERIFICA	ATION		JOB No PAGE N	0:L ofL
LOCATION: SEC: 25 1	LEASE: ROL TWP: 302 RN	G:(2W BM	WELL: GOOD	C AE OD: (N	NM PIT:	50/4 5EP	DATE STARTE DATE FINISHE	D: 8/2/93 ED: 8/2/93
EQUIPMENT	USED:	TRACKT	105				ENVIRONMENT SPECIALIST:	TAL NV
	DIATION: QT					600 c	.γ.	
	DISPOSAL F	'ACILITY: _ ND USE: _		CH MESA	Compo	51		
SURFACE C	ONDITIONS:		KNOWN					
DEPTH TO G	S & REMAR ROUNDWATER ATER SOURCE IRFACE WATE	: 50-186 : >1000	FT TU	ROXIMATELY	\$ 55	YARDS =	525W FF	ROM WELLHEAD
	APPROXIM	~~ELY T. 	15T LIGHT	TO MEDIUM	a GRAY C	ZOLOR K	Enomera ric	SLIGHTLY ITYOROCOMBON ONNTERED
(X)	SK ASSES	SED)	FIELD 418	1 CALCULA	CIONS			
	SAMPLE I.D.		WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm	
	Bezz'	GAC0175	10.21	ZONL	10:1	209	4094 /	
							·	
SCALE O PIT	FEET PERIMI	ETER TURERD SEP	RE SAMPLE 10 DR 19 22 16 32 (5 VE.)	PIO (ppm) 1073 1780 14.5 13.5	RAG	PIT	- z7'	A SEP GROUPD TURFACE
TRAVEL NOTE	S: CALLOUT:		ON:	SITE:				

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Rowland GC #1E

Unit M, Sec. 25, T30N, R12W

Separator Pit Basin Dakota

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

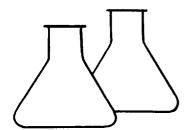
Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 22 feet below grade.

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 22 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. Well site located within the <u>non-vulnerable area</u> and is approximately 0.08 miles southwest of the nearest vulnerable area boundary (Jones Arroyo).

(Refer to Flora Vista Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), photorevised 1979, (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 sandstone bottom creates enough of an 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). AMOCO requests pit closure approval on this location.



ENVIROTECH LABS

5796 US Highway 64-3014 • Farmington, New Mexico 87401 PHONE: (505) 632-0615 • FAX: (505) 632-1865

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Amoco

Sample ID: 5 @ 22'

Project Location: Roland GC 1E

Laboratory Number: GAC0175

Project #: 92140
Date Analyzed: 08-02-93
Date Reported: 08-19-93

Sample Matrix: Soil

Parameter

Result, mg/kg

Detection Limit, mg/kg

Petroleum Hydrocarbons

4100

100

Quality Assurance:

Original TPH mg/kg

Duplicate TPH mg/kg

Diff.

44200

36500

19

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Separator Pit. C4925.