District I P O Box 1980, Hobbs, NM bistrict II-P.O. Drawer DD, Artesia, NM 88211 District III io Brazos Rd, Aztec, NM \$7410

State of New Mexico Energy, Minerals and Natural Resources Department

APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Denied 12/11/96
[due to LF

PIT REMEDIATION AND CLOSURE REPORT

Operator:	Amoco Production Company	Telephone: (505) - 326-9200
Address:		•
Well Name	JC Gordon "D" #	
Location: Unit	or Qtr/Qtr Sec Se	c23 T27N R 10W County SAN SWAN
	rator Dehydrator Of	
	M, State, Fee	
Pit Location:	Pit dimensions: length Reference: wellhead ~	20, width 25, depth 10
	Footage from reference:	
	Direction from reference	e: 20 Degrees East North of
		West South
Depth To Groun (Vertical distance contaminants to a high water elevate ground water)	ce from seasonal	Less than 50 feet (20 points) of 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) No (0 points) <u>Ø</u>
Distance To St forizontal dist lakes, ponds, ri irrigation canal	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):
		KANKING BOOKE (TOTAL FOLKID).

Date Remediation St	arted:	Date Completed: 22 Suly 1994
Remediation Method: (Check all appropriate	 ,	Approx. cubic yards 185
sections)	Landfarmed	Insitu Bioremediation
	Other	
Remediation Location (ie. landfarmed onsite, name and location of offsite facility)	n: Onsite Offs	ite X COMBINED W/ J.C. GORDON E#)
General Description	Of Remedial Action:	
Excavation	on. BEDROCK BO	nom. RISK ASSESSED.
	.	`.
1		
		
Ground Water Encoun	tered: No	Yes Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample location	see Attached Documents
attach sample results and diagram of sample	Sample depth 10	,
locations and depths)	Sample date 7-2	
	Sample Results	· · · · · · · · · · · · · · · · · · ·
	Benzene (ppm)	NO
·	Total BTEX(ppm	
	Field headspac	
	TPH 393 /Pm	
Ground Water Sample	: Yes No 🗸	(If yes, attach sample results)
I HEREBY CERTIFY TH OF MY KNOWLEDGE AND		BOVE IS TRUE AND COMPLETE TO THE BEST
DATE 22 July	1994 5/23/98 91	RIINCI.
SIGNATURE SASI	PRINTED N AND TITLE	

3 / 5

C' IEN	IT: AmoLO	ENVIROTECH Inc.	PIT NO AUSS
	7 1110	5796 US HWY. 64. FARMINGTON, NM 87401 (505) 632-0615	20m
	FIELD REPORT:	CLOSURE VERIFICATION	JCB No: 92140 PAGE No: 4 of 1
QUA		YON D" WELL #: 3 PIT: ROW DITY: SJS YOU CONTRACTOR: - EPC	DATE STARTED: DATE FINISHED: 22 Jul 94 ENVIRONMENTAL F H SPECIALIST:
	REMEDIATION: EXCAVAT	TION APPROX. 20 FT x 25 IN TY: LAND FARM- BUT SITE CUBIC TANGE - RLM LEASE: SF-	FT. x <u>/O</u> FT. DEEP. YARDAGE: <u>/8</u>
DEPTH NMGCD SOIL 4.22	RANKING SCORE: AND EXCAVATION DESCR	IPTION: Soil 15 Mellow - Brown The Color of Bedrock 2 10 Proposition of the Color	Surface vater: 1/000 Surface vater: 1/000 Surface vater: 1/000
S	SAMPLE 1.D.	FIELD 418.1 CALCULATIONS LAB No: WEIGHT (g) ml. FREON DILUTION READI	Bay Assesses
A A	PIT PERIMETI	OVM RESULTS SAMPLE PED HEADSPACE PID (BORN) 1 88 / /2 2 88 / 75 3 88 6 7 4 8 7 9 9 5 8 10 228 1 LAB SAME ES (5 10 10 TPH (4/R1) 1 REX (8020)	PIT PROFILE A' BEORX
TPA'	VEL NOTES	1111	

(.

Well Name:

Well Site location:

Pit Type:

ra rypc.

Producing Formation:

Pit Category:

Horizonal Distance to Surface Water:

Vicinity Groundwater Depth:

Gordon, J.C. D #3
Unit K, Sec. 23, T27N, R10W
Blow Pit
Basin Dakota
Non Vulnerable
> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

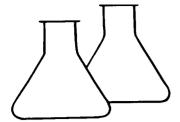
Pit remediation activities were terminated when trackhoe encountered competent sandstone at 10 feet below grade.

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

- 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.
- 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 0.3 miles west of the nearest vulnerable area boundary (Armenta Canyon Wash).

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

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 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). AMOCO therefore request pit closure approval on this location.



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: Sample ID:	Amoco 5@10'	Dace bamprou.	92140 07-22-94 07-22-94
Laboratory Number:	7737	Date Mederica.	
Sample Matrix:	Soil	Da00	07-29-94
Preservative:	Cool	Date Reported.	08-01-94
Condition:	Cool and Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Limit (mg/kg)
Total Petroleum Hydrocarbons	393	30.0

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: JC Gordon "D" #3 Blow Pit A0083

Analyst

Review Johns

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

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Sample Matrix: Preservative: Condition:	Amoco 5@10' 7737 Soil Cool Cool & Intact	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted: Analysis Requested:	92140 08-09-94 07-22-94 07-22-94 08-09-94 08-09-94 BTEX
---	---	---	---

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	ND 5450 2888 11500 41500	13.1 13.1 13.1 13.1

SURROGATE RE	COVERIES:	Parameter	Percent	Recovery	<i>r</i>
		Trifluorotoluene Bromfluorobenzene		137 123	_

Method 5030, Purge-and-Trap, Test Methods for Evaluating Method: Solid Waste, SW-846, USEPA, Sept. 1986

> Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

JC GORDON "D" #3 A0083 BLOW PIT Comments:

EXCESSIVE SURROGATE RECOVERY DUE TO COELUTION

District I
PO Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
io Brazos Rd, Azzec, NM 87410

(State of New Mexico Energy, Minerals and Natural Resources Department

A0083
SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

OIL CONSERVATION DIVISION

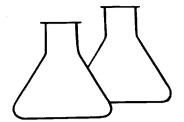
P.O. Box 2088 Santa Fe, New Mexico 87504-2088

PIT REMEDIATION AND CLOSURE REPORT

	ę.	
Operator:	Amoco Production Company	Telephone: (505) - 326-9200
	200 Amoco Court, Farmington	
Address:	200 Amoco court, rarmington	,
	JC Gordon "D" #	· .
Location: Unit	or Qtr/Qtr SecKSe	ec 23 t27N R 10W County SAN SUAN
Pit Type: Sepa	ratorDehydrator C	other
Land Type: BL	M, State, Fee	_, Other
Pit Location:	Pit dimensions: length	n 25, width 30, depth 8
letach diagram,	Reference: wellhead v	
	Footage from reference:	:93
		ce: Degrees East North of
		West South
		911
Depth To Ground (Vertical distant contaminants to high water eleval ground water)	ce from 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: feet from a private source, or; less than all other water sources)	Yes (20 points) No (0 points) <u>O</u>
Distance To S iorizontal dist lakes, ponds, r irrigation canal	cance to perennial ivers, 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):

Date Remediation St	arted:	Data : 2000 lated 20 () 1991
Remediation Method: (Check all appropriate	Excavation /	Approx. cubic yards 222 Insitu Bioremediation
Remediation Location (ie. landfarmed onsite, name and location of offsite facility)	n: Onsite_Off	site & Combined w/ J.C. Gordon E#1
General Description	Of Remedial Action	
Excavation	on BEOR-CX B	offom. Box Assessed 915
Ground Water Encoun	tered: No 🗸	Yes Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample location	see Attached Documents
attach sample results and diagram of sample	Sample depth 8	
locations and depths)	Sample date $22\sqrt{2}$	sample time
	Sample Results	
	Benzena(ppm) Total BTEX(pp	
		ce(ppm) 212
	TPH 279 PP	1
Ground Water Sample	: Yes No <u>~</u>	(If yes, attach sample results)
		ABOVE IS TRUE AND COMPLETE TO THE BEST
$\mathcal{A} \setminus \mathcal{A}$	BELIEF 94 5/23/98 91V PRINTED	NAME Budd D. Shail
SIGNATURE / SIGNATURE	VAW AND TITL	

CLIENTS AMO		ENVIROTECH	Inc.	. PIT NE	A0083
CL.=N1:		US HWY. 64, FARMIN (505) 632-061	GTON, NM 87401		3210
FIELD F	EPORT: CLOS			JCB No: _9' PAGE No: _	
	VC Gordon "D" SEC: 23 TWP: 34 VE/4 SW)4 C	WRNG: 16W BM: A	PIT: SEP /N CNTY:51 STA PC	DATE STARTED:	
DISPO LAND	EXCAVATION AP SAL FACILITY: AAA	BLM	CUBIC Y	(ARDAGE: <u>222</u> 077952	
FIELD NOTES & DEPTH TO GROUNDWATE NMGCD RANKING SCORE	REMARKS: PIT LOCAL REST OF NAME THE	ATED APPROXIMATE WATER SOURCE: 700 CLOSURE STD: 700	Y 93 FEET ON NEAREST SU	FROM FROM FROM FROM FROM FROM FROM FROM	1 WELLHEAD.
COMBINED WITH J.C.	60RAGE 5'-8'.	Soil 15 GE Silly SAND Soil 15 91 BEDROLK	ny Saady.	elay, Conga	ected
* UNADIE TO E.	xcaunte further	South Lue for FIELD 418.1 CALCUL WEIGHT (g) ml. FRES	ATIONS	Je piperne)
BOREM				·	
SCALE O FEET PIT P	ERIMETER	OVM RESULTS	I	PIT PROFIL	.E
	* A	SAMPLE FELD HEADS PID (ppm)	3	1111111	A) _
	3	103' 022 508' 2/			
	3		AME_ES		
Well Head	Α	(5)@8' TPH(Brex	(B)20)		=
TRAVEL VOTES				! : ! : ! ! ! !	11111



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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Sample ID:	Amoco 508'	Project #: Date Sampled:	92140 07-22-94
Laboratory Number:	7738	Date Received:	07-22-94
Sample Matrix:	Soil	Date Analyzed:	07-29-94
Preservative:	Cool	Date Reported:	08-01-94
Condition:	Cool and Intact	Analysis Needed:	TPH

Damamatar	Concentration (mg/kg)	Det. Limit (mg/kg)
Parameter	(3 / 3 /	
Total Petroleum Hydrocarbons	279	30.0

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

Method:

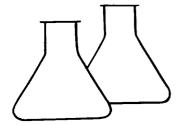
Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and

Waste, USEPA Storet No.4551, 1978

Comments: JC Gordon "D" #3 Sep Pit A0083

Analyst

Morris Dyoung Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Sample Matrix: Preservative: Condition:	Amoco 508' 7738 Soil Cool Cool & Intact	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted: Analysis Requested:	92140 08-09-94 07-22-94 07-22-94 08-09-94 08-09-94 BTEX
---	--	---	---

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	26.7 680 291 311 1240	13.1 13.1 13.1 13.1

SURROGATE RECOVERIES: Parameter Percent Recovery
----Bromfluorobenzene 103 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: JC GORDON "D" #3 SEP PIT A0083

Review Review

-

F,+ # A0083

Time Remarks Date ANALYSIS/PARAMETERS CHAIN OF CUSTODY RECORD Received by: (Signature) Received by: (Signature) Received by: (Signature) 7 ENVIROTECH INC. No. of Containers Time Sample Matrix JCGura "D" 1 3 Soil Chain of Custody Tape No. 7737 Lab Number 587F Project Location Sample Time Sample Date 6 Refinquished by: (Signature) Relingatished by: (Signature) Sample No./ Identification Client/Project Name Amoio

sen juan repro Form 578-81

5796 U.S. Highway 64-3014 Farmington, New Mexico 87401

(505) 632-0615