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GENERAL CORRESPONDENCE

YEAR(S): 2001 - 1999

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

May 11, 2001

Mr. William C. Olson - Hydrologist State of New Mexico Oil Conservation Division (NMOCD) Environmental Bureau 1220 St. Francis Drive Santa Fe, NM 87505

RE: Cross Timbers Operating Company (CTOC) 2000 Annual Groundwater Reports, San Juan County, NM Permanent Closure Requested

Dear Mr. Olson:

Blagg Engineering, Inc. (**BEI**), on behalf of CTOC, respectfully submits the attached 2000 annual groundwater reports in which permanent closure is requested.

A total of seven (7) well sites, listed below, are associated with this correspondence. All work performed at these sites has been incorporated into individual packets (attached).

- 1. Frost, Jack B # 2
- 2. Hare GC B # 1E
- 3. Johnson, E.J. C # 1E
- 4. McCoy GC C # 1
- 5. Prespentt GC # 1
- 6. Stedje GC # 1
- 7. Sullivan Frame A # 1

The summaries and/or conclusions made for each site are based on data made available from the enclosed material as well as the information noted below. Any site specific inquiries should be examined within the individual packets.

On March 7, 2000, BEI communicated with NMOCD (fax and telecommunication) with respect to an apparent discrepancy in laboratory results by the two (2) analytical subcontractors employed (see attached *facsimile cover page* and *spreadsheet* documents). After examining the information, the NMOCD made recommendations as noted on the attached summary (*Sampling Event Categorization ...*) in order to achieve verification for permanent closure. In addition, NMOCD reiterated that the approved groundwater management plan (GMP) must be adhered to.

It should be noted that CTOC, upon acquiring these sites, as well as numerous others from BP Amoco (formerly Amoco Production Company) in 1998, requested from NMOCD to incorporate BP Amoco's own GMP for their exclusive use. It is BEI's understanding that the NMOCD approved this request. The approved GMP is included with this correspondence.

According to the above noted summary and GMP, BEI concludes that permanent closure has been

achieved at the sites included in this transmittal. Residual groundwater and/or soil contamination, if any, does not appear to pose a threat to nearby freshwater supplies, public health, or to the environment.

It should be recognized that CTOC, in the case of the McCoy GC C #1 well site, went beyond the recommendation made by NMOCD in the above noted summary (*Sampling Event Categorization*) by establishing four (4) consecutive quarterly sampling events below the NMWQCC's standards for BTEX (benzene, toluene, ethylbenzene, and total xylenes) in order to add more credibility to the suggestions made by NMOCD.

If you have questions, please call either myself or Jeffrey C. Blagg. Thank you for your cooperation and assistance.

Sincerely, BLAGG ENGINEERING, INC.

Nelson Velez Staff Geologist

Reviewed by:

47 C-3699 Jeffrey C. Blagg, P.E.

President

Attachments: Facsimile Cover Page & Spreadsheet Sampling Event Categorization and Permanent Closed Site Listing - Summary CTOC's Groundwater Management Plan Individual Well site packets

cc: Denny Foust, Environmental Geologist, NMOCD, Aztec, NM Bill Liess, Regional Environmental Officer, Bureau of Land Management, Farmington, NM (2 copies of federal lease sites only) Nina Hutton, Environmental & Safety Manager, CTOC, Ft. Worth, TX

PERM-00.CVL

P.O. Box 87, Bloomfield, New Mexico 87413 Phone:(505)632-1199 Fax:(505)632-3903

FACSIMILE COVER PAGE

DATE:	MAR. 7, 2000			
TO:	BILL OLSON			
COMPANY:	NMOCD			
FAX #:	(505) 827-8177			
FROM:	NELSON VELEZ			

NO. PAGES INCLUDING COVER: 2

MESSAGE:

CONTENT INCLUDES:

Spreadsheet of lab result comparisons between Envirotech, Inc. lab and On-Site Technologies. The 1999 sampling events was analyzed by Evirotech and the 2000 events by On-Site Tech. Jeffrey and I would like to convey our opinions to what appears to be a major discrepancy in the findings. Hopefully you can review the attached document before we call this afternoon to discuss this matter. Thanks. NJV

CROSS TIMBERS GROUNDWATER MONITOR WELL LAB RESULTS

			_					BTE	X EPA MET	HOD 8021 (F	PPB)
SAMPLE	MONITOR	D.T.W.	T.D.	TDS	COND.	pН	PRODUCT			Ethyl	Total
DATE	WELL No:	(ft)	(ft)	mg/L	umhos		(in)	Benzene	Toluene	Benzene	Xylene

JOHNSON, E.J. C #1E - PROD. TANK PIT

2

27-Sep-99	MW #1	15.32	20.00	3,440	6,920	7.5	13.9	11.0	17.2	10.0
18-Feb-00		15.39			3,100	7.7	2.4	ND	11.0	ND
27-Sep-99	MW #2	12.96	20.00	720	1,472	8.1	58.7	39.0	90.2	107.4
18-Feb-00		13.08			1,500	8.2	ND	ND	86	42.6
27-Sep-99	MW #3	8.24	20.00	3,410	6,840	8.0	22.7	3.3	2.1	11.6
18-Feb-00		8.51			3,100	8.0	ND	ND	ND	ND

HARE GC B #1E - SEPARATOR PIT

09-Dec-99	MW #2	6.99	18.00 3	3,500	7,020	7.0	9.0	8.7	5.3	10.7
21-Feb-00		7.47			3,100	7.1	ND	ND	ND	ND
09-Dec-99	MW #3	5.31	17.00	3,380	6,770	7.0	5.7	5.3	2.8	4.3
21-Feb-00		5.61			3,200	7.1	ND	ND	ND	ND

FROST, JACK B #2 - SEPARATOR PIT

27-Sep-99	MW #1	8.73	20.00 3,40	6,810	8.0	24.9	4.0	ND	6.3
18-Feb-00		9.26		3,800	8.0	ND	ND	ND	ND
27-Sep-99	MW #2	11.71	20.00 91	5 1,876	7.6	350.0	60.1	90.5	253.9
18-Feb-00		11.87		1,900	7.7	0.9	ND	3	3.9
27-Sep-99	MW #3	13.76	20.00 2,08	0 4,180	8.1	21.2	3.1	3.1	15.1
18-Feb-00		12.87		2,700	8.2	ND	ND	ND	ND

MCCOY GC C #1 - BLOW PIT

29-Nov-99	MW #1	5.85	15.00	1,360	2,735	7.0	8.5	3.4	35.0	68.7
21-Feb-00		5.74			2,000	7.2	ND	ND	ND	ND
29-Nov-99	MW #2	5.44	15.00	1,200	2,430	7.0	3.9	8.2	ND	73.5
21-Feb-00		5.36			1,700	7.2	ND	ND	ND	ND
29-Nov-99	MW #3	6.07	15.00	1,420	2,850	7.0	79.2	117	16.8	456.2
15-Mar-00		6.01			2,000	7.3	ND	ND	83	348

PRESPENTT GC #1 - BLOW PIT

09-Dec-99	MW #2	14.38	20.00	275	505	6.5	7.9	14.9	26.9	73.4
21-Feb-00		16.38			500	7.0	ND	ND	ND	0.6
09-Dec-99	MW #3	13.84	20.00	260	515	7.2	9.4	20.9	15.7	33.0
21-Feb-00		15.68			500	7.6	ND	ND	0.9	19.2

STEDJE GC #1 - SEPARATOR PIT

29-Nov-99	MW #2	10.80	15.00	450	910	7.1	50.0	37.3	124.0	621.8
15-Mar-00		10.57			800	7.3	ND	ND	ND	ND
29-Nov-99	MW #3	10.51	15.00	475	960	7.2	9.9	3.5	75.0	154.6
21-Feb-00		10.61			700	7.7	ND	ND	ND	ND

SULLIVAN FRAME A #1 - BLOW PIT

03-Nov-99 MV	/ #2 6.34	15.00 5,100 10,220	7.0	9.9	3.7	1.0	1.8
22-Feb-00	6.60	2,100	7.3	ND	ND	ND	ND

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P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505) 632-1199 Fax: (505) 632-3903

March 7, 2000

Sampling event Categorization and Permanent Closed Site Listing (Based on telecom with Bill Olson of NMOCD)

Quarterly Sampling - utilizing current data

1)	McCoy GC C # 1	-	sample MW # 3 ASAP, if below standards, sample one more quarter for below standards results, then request permanent closure.
2)	Stedje GC # 1	-	sample MW # 2 ASAP, if below standards, sample one more quarter for below standards results, then request permanent closure.
3)	Frost, Jack B#2	-	sample all MW's next quarter, if all are below standards, then request permanent closure.
4)	Johnson, E.J. C#1E	-	sample all MW's next quarter, if all are below standards, then request permanent closure.

Requesting Permanent Closure for the following Sites - utilizing current data

- 1) Hare GC B # 1E
- 2) Prespentt GC # 1
- 3) Sullivan Frame A # 1 after verifying the TDS levels in all MW's and chloride content in MW #2.

CROSS TIMBERS OPERATING COMPANY

GROUNDWATER MANAGEMENT PLAN (for groundwater encountered during pit closure activities)

Cross Timbers Operating Company (CTOC) may undertake unlined earthen pit closures for well locations in the San Juan Basin (including vulnerable areas, expanded vulnerable areas, and Area III). These closures may include removing contaminated media from the pit area (source), soil sampling (when accessible), and groundwater sampling. Groundwater may be encountered during pit closure activities at some locations. This Remediation Plan addresses cases where groundwater has been or may be encountered during initial closure activities. Pits where groundwater has been or may be encountered will be assessed and remediated according to the following options.

1.0 **Preliminary Investigation and/or Remediation of Impacted Groundwater**

1.1 A preliminary investigation will be conducted. This typically entails excavation of source contamination, sampling of soils (*when accessible*) and groundwater within the pit area. Sampling will be in accordance to the New Mexico Oil Conservation Division (**NMOCD**) Pit Closure Guidance. All initial groundwater samples from the excavated pit area will be analyzed for benzene, toluene, ethylbenzene, total xylenes (**BTEX**), and anion/cation. If a product sheen is present, samples may also be analyzed for polynuclear aromatic hydrocarbons (**PAH**).

Note that the regulatory standards for only BTEX, anion/cation, and possibly PAH (if a product sheen is present) constituents will be addressed as discussed below.

- 1.2. If the initial groundwater samples from the excavated pit area are below regulatory standards prior to any remedial action to the groundwater (i.e. pumping, skimming, etc), remedial action will be terminated and the pit considered permanently closed unless otherwise stated on the pit closure verification form.
- 1.3 If the initial groundwater samples from the excavated pit area exceed regulatory standards, a determination of lateral extent in the suspected down gradient direction will be attempted. This will be conducted by advancement of a test hole(s) via trackhoe/backhoe or other means of acceptable subsurface advancement.
- 1.4 The contaminated portion of groundwater within the excavated area pit may be removed using various methods (i.e. skimmer, pumps, air injection, natural attenuation, etc).
 - 1.4.1 The following categories will determine what action to undertake if remedial action has been conducted prior to the initial sampling of the excavated pit area or after subsequent samples have been collected.

CTOC Groundwater Management Plan February, 1998

- 1.4.1a If the laboratory results are below regulatory standards from both the excavated pit area and suspected down gradient samples, then the pit area will be monitored only.
- 1.4.1b If the laboratory results exceed regulatory standards from the excavated pit area but are below from the suspected down gradient samples, then the pit area will be further remediated and/or monitored only.
- 1.4.1c If the laboratory results exceed regulatory standards from both the excavated pit area and the suspected down gradient samples, then a determination of the lateral extent will be established and the pit area will be further remediated and/or monitored only.
- 1.4.1d If the laboratory results are below regulatory standards from the excavated pit area but are exceeded from the suspected down gradient samples, then a determination of the lateral extent will be established and the delineated area will be remediated and/or monitored only.
- 1.5 If the site conditions are unsatisfactory for further remedial actions and groundwater cleanup standards are not achieved, then <u>drive points and/or monitor wells</u> (sampling point) may be utilized to delineate lateral extent and monitor the groundwater impact area. The number of sampling points installed will depend on such conditions as the size of the source area, availability of space at the work site, and any surface obstructions that may hinder potential sampling point locations.
 - 1.5.1 Figure 1 displays a typical drive point construction and completion that may be applied.
 - 1.5.2 Figure 2 & 3 display typical monitor well construction and completion that may be applied.
- 1.6 During installation of the sampling point(s), a soil sample from immediately above the water table may be collected and field screened using an Organic Vapor Meter (**OVM**). Boring logs for each sampling point will be completed and filed within the pit closure records for each well site.
- 1.7 If auger refusal is encountered prior to reaching groundwater and contamination appears at the refusal depth, a risk based assessment will be implemented.
- 1.8 After installation of the sampling point(s), development and sampling of each point(s) will be conducted. Sampling will include observation of the initial bail, field testing for Total Dissolved Solids (**TDS**), and testing for appropriate constituents by laboratory analyses.

CTOC Groundwater Management Plan February, 1998

2.0 Groundwater Monitoring Program

This section addresses subsequent sampling of attempted remediated groundwater employing the sampling points previously mentioned. Please note that the options listed below are categorized into three distinct scenarios that may be experienced during the initial sampling event for each individual sampling point. The scenarios are defined as follows; 1) non detects or low concentrations (**defined as levels below 25 % of the regulatory standards** [i.e. benzene < 2.5 ppb]), 2) below regulatory standards (i.e. benzene < 10 ppb but > 2.5 ppb), and 3) those exceeding regulatory standards.

- 2.1 Four consecutive sampling events demonstrating results below regulatory standards for any individual sampling point will achieve permanent closure for that particular sampling point unless otherwise stated.
- 2.2 If the initial sampling event results reveal below standards for the anion/cation (or a statistical equivalence to the natural conditions utilizing the furthest up gradient sampling point) and/or PAH constituents, then sampling of those constituents will be discontinued.
- 2.3 If the initial up gradient samples reveal non detects or low concentrations for the appropriate constituents, then sampling of that sampling point(s) will be terminated.
- 2.4 If the initial pit area samples exceed regulatory standards and the down gradient(s) reveals non detects or low concentrations for the appropriate constituents, then the down gradient sampling point(s) will be terminated and the pit area sampled on a quarterly basis.
- 2.5 If the initial pit area and down gradient samples are below regulatory standards but exceed low concentrations for the appropriate constituents, then those sampling points will be sampled on a quarterly basis.
- 2.6 If the initial pit area samples exceed regulatory standards and the down gradient(s) reveals non detects or low concentrations for the appropriate constituents, then the down gradient sampling point(s) will be terminated and the pit area sampled on an annual basis.
- 2.7 If the initial pit area samples exceed regulatory standards and the down gradient(s) is below regulatory standards but exceed low concentrations for the appropriate constituents, then the pit area sampling point(s) will be conducted annually and the down gradient(s) on a quarterly basis.
- 2.8 If the initial pit area and down gradient samples exceed regulatory standards, then those sampling points will be sampled on an annual basis. Afterwards, a determination of lateral extent will be undertaken.
- 2.9 In residential areas, if the TDS level at any sampling point is less than or statistically equivalent to the background up gradient sampling point, then the site will be considered meeting the allowable TDS concentration for closure.
- 2.10 All sampling and analysis activities will utilize approved US EPA procedures.

CTOC Groundwater Management Plan February, 1998

3.0 **Risk Assessment of Impacted Groundwater**

- 3.1 At sites near residential areas where regulatory standards have been exceeded for the appropriate constituents in groundwater, a water well survey will be conducted. If this survey indicates that a water supply well is within 1000 feet, then the potential risk to water supply well(s) will be considered, and appropriate actions will be recommended to NMOCD.
- 3.2 If potential water well(s) are not present, and if concentrations of the previously addressed constituents exceed regulatory standards, CTOC may petition for closure. Such a petition might include an evaluation of risk demonstrating that the remaining contaminants do not pose a threat to nearby fresh water supplies due to geochemical equilibrium, public health and the environment.

4.0 Scheduling

Groundwater investigation and remediation activities will begin as soon as practical at each site. Priorities will be assigned based upon the results of site and/or risk assessment and field considerations. The NMOCD will be notified at least 48 hours in advance of all scheduled field related activities. All documents submitted for approval will be submitted to the NMOCD Santa Fe Office with copies provided to the NMOCD Aztec Office.

5.0 **Reporting**

Notification will continue to be made to NMOCD when impacted groundwater is encountered during pit remediation.

On a annual basis commencing January, 1999 or upon written notification from NMOCD, a summary of groundwater remediation activities for each individual well site will be submitted to the Santa Fe and District Office. This summary will include:

- 5.1 A description of all activities which occurred during the investigation, interpretations or conclusions, and possible recommendations.
- 5.2 The laboratory analytic or field reports of soil and water sampling including copies of the laboratory or field quality assurance / quality control data.
- 5.3 Summary tables listing historical and current groundwater laboratory analytic results.
- 5.4 A site map and a water table elevation map using the water table elevation of the groundwater in all pertinent sampling points.
- 5.5 A lithologic and completion diagram for each sampling point.
- 5.6 The disposition of all wastes generated.
- 5.7 Any risk analysis and type of remediation method used if remediation is required for each location at which contaminated groundwater has been encountered.

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CTOC Groundwater Management Plan February, 1998

6.0 Plug and Abandonment of Sampling Points

Upon notification from NMOCD that permanent closure has been achieved at an individual well site, each sampling point will be plugged and abandoned as follows:

- 6.1 Drive points will be removed from the subsurface and boring grouted with 5% bentonite concrete slurry to ground surface.
- 6.2 Those monitor wells whose tops are above surface grade will be cut down to grade and grouted with 5% bentonite concrete slurry to ground surface.

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505) 632-1199 Fax: (505) 632-3903

February 17, 1999

RECEIVED

Mr. William C. Olson -Hydrogeologist Environmental Bureau New Mexico Oil Conservation Division 2040 Pacheco State Land Building Santa Fe, New Mexico 87505

FEB 1 9 1999

ENVIRONMENTAL BUREAU OIL CONSERVATION DIVISION

RE: Cross Timbers Oil Co. (Amoco) Pit Closure/Groundwater Monitoring Reports San Juan County, New Mexico

Dear Mr. Olson:

The attached reports on pit closure/groundwater monitoring at nineteen (19) previously owned Amoco well locations is being submitted for your review. These well sites have been acquired by Cross Timbers Co. as of December, 1997. The well names are listed on the following page of this correspondence. The reports for each individual well site are laid out in the following order;

- 1) Pit Closure documentation and/or a brief description of all activities which occurred during the investigation, sampling procedures, and/or interpretations, conclusions, and possible recommendations.
- 2) A summary spreadsheet (when applicable) containing laboratory BTEX, general chemistry (if applicable), and any other pertinent information.
- 3) When applicable: site and groundwater gradient maps, boring logs, and monitor well detail schematics.
- 4) Laboratory reports for each sampling-event.
- 5) Quality Assurance/Quality Control data.

A copy of this report is also being submitted to Mr. Denny Foust at the Aztec NMOCD office. If you have any questions or comments concerning this report, please contact Blagg Engineering at 632-1199.

Respectfully submitted, Blagg Engineering, Inc.

Nelson Velez. Staff Geologist

Attachments: Pit Closure/Groundwater Monitoring Reports

xc: Denny Foust, NMOCD Aztec Office;

Nina Hutton, Cross Timbers Oil Co.

NJV/njv

FEB99-PC.COV

Cross Timbers Oil Company Pit Closure/Groundwater Monitoring Reports Well Sites being submitted, February 1999

- Abrams GC C # 1 1) 2) Abrams L # 1A Anderson GC A # 1 3) Armenta GC A # 1 4) Baca GC A # 1 5) Baca GC A # 1A 6) Chavez GC C # 1R 7) 8) Federal GC 3-1 Garcia GC B # 1E 9) Haney GC B # 1E 10) Hare GC C # 1 11) Hare GC C # 1E 12) Hare GC F # 1 13) 14) Lefkovitz GC B # 1 Masden GC # 1 15) Romero GC A # 1 16) Stedje GC # 1 17)
- 18) Stedje GC # 1E
- 19) Trujillo GC A # 1

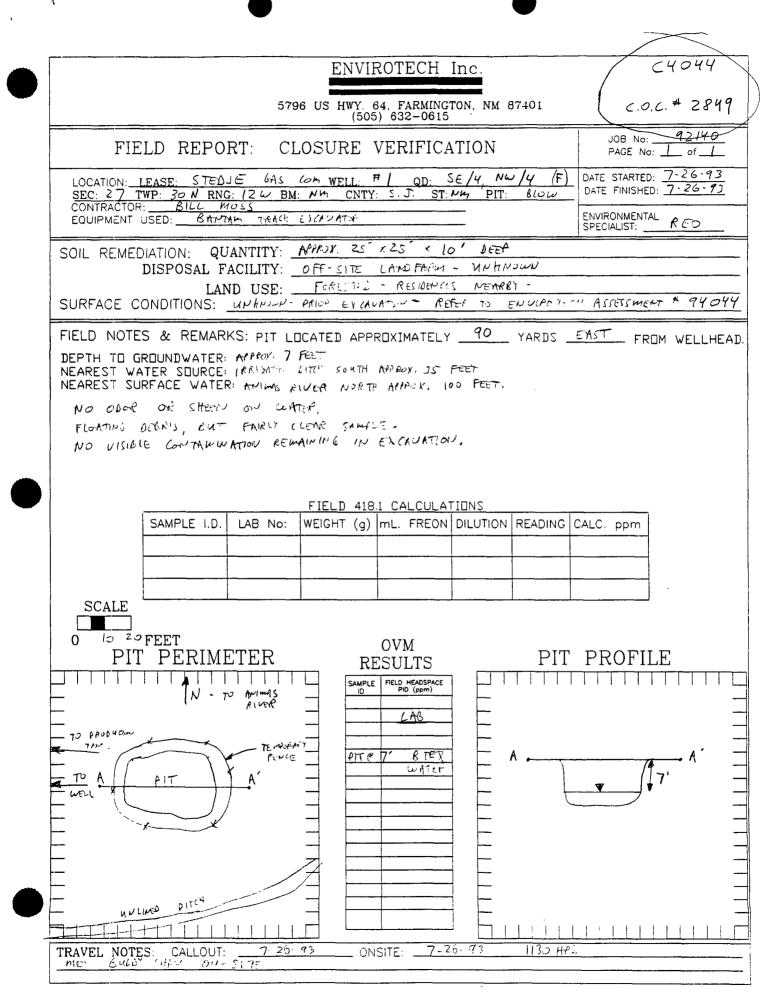
Unit F. Sec. 25, T29N, R10W Unit I. Sec. 26, T29N, R10W Unit C, Sec. 28, T29N, R10W Unit D. Sec. 27, T29N, R10W Unit H, Sec. 26, T29N, R10W Unit F. Sec. 26, T29N, R10W Unit J. Sec. 23, T29N, R10W Unit N, Sec. 23, T29N, R10W Unit M, Sec. 21, T29N, R10W Unit M, Sec. 20, T29N, R10W Unit M. Sec. 25, T29N, R10W Unit F, Sec. 25, T29N, R10W Unit G. Sec. 23, T29N, R11W Unit A, Sec. 25, T29N, R10W Unit A, Sec. 28, T29N, R11W Unit K. Sec. 27, T29N, R10W Unit F, Sec. 27, T30N, R12W Unit A. Sec. 27, T30N, R12W Unit C, Sec. 28, T29N, R10W

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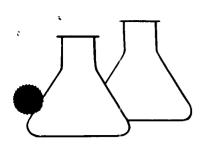
NJV/njv

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	New Mexico tural Resources Department	SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO
trict III OIL CONSERV.	ATION DIVISION	SANTA FE OFFICE
Hand Barren B. Barren H. W. Kanada B. H.	Box 2088 Mexico 87504-2088	
		PROVE
FEB 1 9 1999	ND CLOSIDE DEDODT	
ENVIRONMENTAL BUREAU	ND CLOSURE REPORT	
OIL CONSERVATION DIVISION		
Operator: Amoco Production Company	Telephone:	(505) • 326-9200
Address: 200 Amoco Court, Farmingto	n, New Mexico 87401	
Facility Or: STEDJE GC	#/	
Well Name		
Location: Unit or Qtr/Qtr Sec_ Fs	ec Z7 T30N R/ZW County 5	PN JURN
Pit Type: Separator Dehydrator (other frow	
Land Type: BLM, State, Fee	, Other	
it Location: Pit dimensions: lengt	75'	,
ttach diagram)		, depth <u>70</u>
Reference: wellhead	, other	
Footage from reference	<u>- 270'</u>	
	ce: \mathcal{O} Degrees \mathbf{X} Eas	t North
		of
	Wes	t South
		······································
Depth To Ground Water: (Vertical distance from		20 points) 10 points)
contaminants to seasonal	•	(0 Points) 20
high water elevation of ground water)		
Wellhead Protection Area:		20 points)
(Less than 200 feet from a private domestic water source, or; less than	No	(0 points)
1000 feet from all other water sources)		
Dickense Me Grade Televis	•	· · · ·
Distance To Surface Water:	Less than 200 feet (2 200 feet to 1000 feet (2	20 points) 10 points)
Takes, ponds, rivers, streams, creeks,	Greater than 1000 feet	
irrigation canals and ditches)		
	RANKING SCORE (TOTAL PO	INTS): <u>40</u>

7		CHOHH BLOW PIT
Date Remediation St	arted:	Date Completed: 7/27/93
emediation Method:	Excavation 🔀	Approx. cubic yards
(Check all appropriate sections)	Landfarmed X	Insitu Bioremediation
	Other	
Remediation Locatio (ie. landfarmed onsite, name and location of offsite facility)	n: Onsite O	Efsite X CROUCH MESA - Amoco Compost FACILITY -
General Description	Of Remedial Actio	on:
Excavatio	on. GROWDURTER	EN COUNTERED.
Ground Water Encoun	tered: No	Yes \times Depth γ'
Final Pit:	Sample location	see Attached Documents
Closure Sampling: (if multiple samples,		
attach sample results and diagram of sample	Sample depth	7'
locations and depths)	Sample date _7/	26/93
	Sample Results	
	Benzene(ppm))
	Total BTEX()	ppm)
	Field heads	pace(ppm)
	ТРН	
Ground Water Sample	: Yes 🔀 No	(If yes, attach sample results)
I HEREBY CERTIFY TH. MY KNOWLEDGE AND		N ABOVE IS TRUE AND COMPLETE TO THE BEST
DATE 7/27/93	1	DUNCI
SIGNATURE BAS	AND TI	DNAME Buddy D. Shaw The Environmental Coordinator



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5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	Pit @ 7'	Date Reported:	07-27-93
Laboratory Number:	5748	Date Sampled:	07-26-93
Sample Matrix:	Water	Date Received:	07-26-93
Preservative:	HgCl & Cool	Date Analyzed:	07-27-93
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	1.6	0.2
Toluene	_ 4.4	0.4
Ethylbenzene	3.3	0.2
p,m-Xylene	46.8	0.3
o-Xylene	8.2	0.3

SURROGATE REC	OVERIES: Parame	ter Percent	Recovery
	Triflu	orotoluene	92 %
	Bromof	luorobenzene	90 %

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.

Stedje Gas Com #1 Blow Pit C4044 Comments:

. Cliencer Analyst

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Client/Project Name		Project Location	919	BLOW PIT							5	C 40 44
AMOTO # 92140	Oh	STEDJE	hai shà	#			AN .	ALYSIS/P	ANALYSIS/PAHAME1EHS	SHI		
Sampler: (Signature)		Chain of Custody Tape No.	e No.		8						Remarks	
					to .c nenis:	Хз						
Sample No./ Sample Identification Date	pte Sample e Time	Lab Number	<i>∝</i> 2	Sample Matrix	NCON	T &						
PIT @ 7' 7-26-93	-43 114S	5748	LUN	LLA TER	2	7						
	-						 					
Relinquished by: (Signature)			Date	Time Rece	Received by: (Signature)	gnature)					Date	Time
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Form 3160-5 Home 1990)	DEPARTMEN	TED STATES NT OF THE INTERIOR	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993 5. Lease Designation and Serial No.
Do not use this	SUNDRY NOTICES	LAND MANAGEMENT AND REPORTS ON WELLS ill or to deepen or reentry to a different reservoir. R PERMIT—" for such proposals	6. If Indian, Allottee or Tribe Name
=		IN TRIPLICATE	7. If Unit or CA, Agreement Designation
I. Type of Well Oil Well X We	is Diher		8. Well Name and No.
 Name of Operator Address and Telephor 	Amoco Production	Company	STEDJE GC #1 9. API Well No. 3004509214
4. Location of Well (For	otage, Sec., T., R., M., or Survey D		10. Field and Pool, or Exploratory Area
SE/4 NW/4, SEC. 27, T30 N, R/2 W, N.M.P.M. 1730' FAL/1770'FWL		11. County or Parish, State SAN JUAN, N.M.	
I2. CHECK	K APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPOP	RT, OR OTHER DATA
ΤΥΡΕ Ο	OF SUBMISSION	TYPE OF ACTION	
Notic	ce of Intent	Abandonment Recompletion	Change of Plans
Subse	equent Report	Plugging Back Casing Repair	Non-Routine Fracturing Water Shut-Off
Final	Abandonment Notice	Altering Casing Altering Casing Other Fit Clear une	Water Situt-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Pit closure verification - see attached documentation.

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O BLOW PTT - ABANDONED, GROUNDWATER ENCONNTERED, CLOSED UNDER Amoco's GW PLAN (SEC. 1.2).

14. I hereby cortific that the folgoing is true and correct Signed	TINE ENVIRO. COORDINATER	Date 7/26/98
(This space for Federal or State office use)		
Approved by Conditions of approval, if any:	Title	Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.