NM1 - <u>31</u>

MONITORING REPORTS

YEAR(S): 2003 - 1999

RECEIVED

JUN 1 6 2003 Environmental Bureau Oil Conservation Division

June 11, 2003

NMOCD Environmental ATTN: Martyne J. Kieling Box 6429 1220 S. Saint Francis Drive Santa Fe, NM 87504

RE: C & C Landfarm, Quarterly

Mrs. Kieling:

Within are the quarterly treatment zone analysis for B & K Landfarm, Jal, NM. Sample was taken at approximately two feet in depth. Sample hole was backfilled with bentonite. The facility all appeared in good shape and in compliance.

If you have any questions, please call.

Thanks,

Elder W. Sea

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE W. SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 05/29/03 Reporting Date: 06/03/03 Project Owner: J. ANTHONY Project Name: B&K LANDFARM Project Location: JAL, NM Sampling Date: 05/29/03 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: BC

LAB NUMBER SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:	06/02/03	06/02/03	05/30/03	05/30/03	05/30/03	05/30/03
H7692-1 CELL #1	<10.0	16.5	<0.005	<0.005	<0.005	<0.015
Quality Control	779	824	0.096	0.104	0.096	0.274
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	97.4	103	95.7	104	95.7	91.3
Relative Percent Difference	2.3	10.3	3.9	5.6	5.1	2.2

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

Lefter Ph. D.

18/03

H7692.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and receiverd by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries. affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

Relinquished By: Delivered By: (Cin Sampler - UPS - Bus	Project Manager: Address: (s0 1 City: Liskits Phone #: 7 - 7 Project Name: Project Name: Sampler Name: Porue us: on: HTL/42-1 HTL/42-1 C	Company Name:
shed shed (Circle One) Bus - Other:	LA Sample I	ARDINAL LABORATORIES 2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020 ne: E.L. Soon Culsu
Date: 5/29 Roc Date: 1/240 Time: 1/240 Time: 1/240		
aved By: (Lab Staf	GROUNDWATER WASTEWATER Soil CRUDE OIL SLUDGE	NC. 101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS. NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 11/22/02 Reporting Date: 11/27/02 Project Owner: J. ANTHONY Project Name: B&K LANDFARM Project Location: JAL, NM Sampling Date: 11/21/02 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: AH

TCLP METALS

LAB NO. SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:	11/26/02	11/27/02	11/27/02	11/27/02	11/27/02	11/27/02	11/27/02	11/26/02
EPA LIMITS:	5	5	100	1	5	5	0.2	1
H7242-1 CELL #1	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
Quality Control	0.053	4.785	21.52	1.012	4.956	4.921	0.0100	0.056
True Value QC	0.050	5.000	25.00	1.000	5.000	5.000	0.0100	0.050
% Recovery	106	95.7	86.1	101	99.1	98.4	100	112
Relative Standard Deviation	1.3	0.3	1.7	0.5	0.7	1.1	0.1	3.8
METHODS: EPA 1311, 600/4-91/01	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

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H7242

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

RECEIVED

FFR 1 8 2003 Environmental Bureau Oil Conservation Division

February 17, 2003

NMOCD Environmental ATTN: Martyne J. Kieling Box 6429 1220 S. Saint Francis Drive Santa Fe, NM 87504

RE: B & K Landfarm Quarterly

Mrs. Kieling:

Within is the analytical for B & K Landfarm treatment zone monitoring. Sample was taken at approximately two ft. depth and hole backfilled with bentonite.

If you have any questions, please call.

Eldin by S

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS. NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 02/11/03 Reporting Date: 02/12/03 Project Owner: J. ANTHONY Project Name: B&K LANDFARM Project Location: JAL, NM

Sampling Date: 02/10/03 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC

LAB NO. SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:	02/11/03	02/11/03	02/11/03	02/11/03	02/11/03	02/11/03
H7470-1 CELL #1	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
Quality Control	802	817	0.107	0.104	0.107	0.306
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	100	102	107	104	107	102
Relative Percent Difference	1.5	3.6	2.2	3.3	2.9	3.3

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

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102 Date

H7470.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

† Cardinal canno	Sampler - UPS - Bus	Delivered By: (Circle One)		Relinquished By:	CH MAR	5	Sampler Relinquished	1 <u>5</u>	analyses. All claims including those f					 -0141H		LAB I.D.			5	5 1	Project# R+	Fax# 2-6949	Phone # 2.2236	city: 44000		Project Manager: 2				ARDI	P
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Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.	D Yes O	Sample/Con	binte		11:20	1010	es horunder by Cardinal, regardees of whe	mages, including without finitution, business interruptions, loss of use, or loss	ry may consider, concern a backly sing other cause whitecover shall be deemed valued unless made in which and m Auding those for negligence and any other cause whitecover shall be deemed valued unless made in which and more						Gi W SC		S ER		8	k	Her. J. Anthony			ZIP: 82242			Consultas			ORIES, INC.	
anges to 915-673-7020.	Yes (minuais) No	dinon CHECKED BY:	user factor	: (Lab Staff)		•	ther such claim is based upon any	of use, or loss	" based in contract or tort, shall be limited to adde in written and renaked by Construct with					J 2/10		LUDGE THER : CID: E / COOL THER :	- PRES.	Fax #		*	State: Zin:	City:	Address: 17	Attn:	Company:	BUL TO PO		(505) 393-2326 Fax (505) 393-2476	101 East Marland, Hobbs, NM 88240		
					REMARKS:	Fax Result: D Yes D No	Phone Result 17 Vac	of profile incurred by client, its subsidiaries,	paid by the client for the					4:20 / /	TIME				215		.					PO#:		393-2476	, NM 88240		
						Johan Lay #:		30 days past due at the rule of 24% per annum from the and all costs of collections, including attorney's fees	Terms and Conditions: Interest will be charged on a													······			······		ANALYSIS REQUEST	Page	•	N-OF-CUSTODT AND ANALTSIS REQUEST	DTODY AND ANALYCI
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DEC 0 9 2002 Environmental Bureau Oil Conservation Division

December 5, 2002

NMOCD Environmental Bureau ATTN: Martyne J. Kieling P.O. Box 6429 1220 S. Saint Francis Drive Santa Fe, NM 87504

RE: B & K Landfarm Quarterly Sampling

Mrs. Kieling:

Find within the sampling data for the treatment zone sampling at B & K Landfarm. The sample was taken at approximately 2 ft. depth and hole filled with red clay. During the sampling experience, an inspection of the facility was conducted, all was in compliance.

If you have any questions, please call.

Ellin

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS. NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 11/22/02 Reporting Date: 11/25/02 Project Owner: J. ANTHONY Project Name: B&K LANDFARM Project Location: JAL, NM Sampling Date: 11/22/02 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: BC

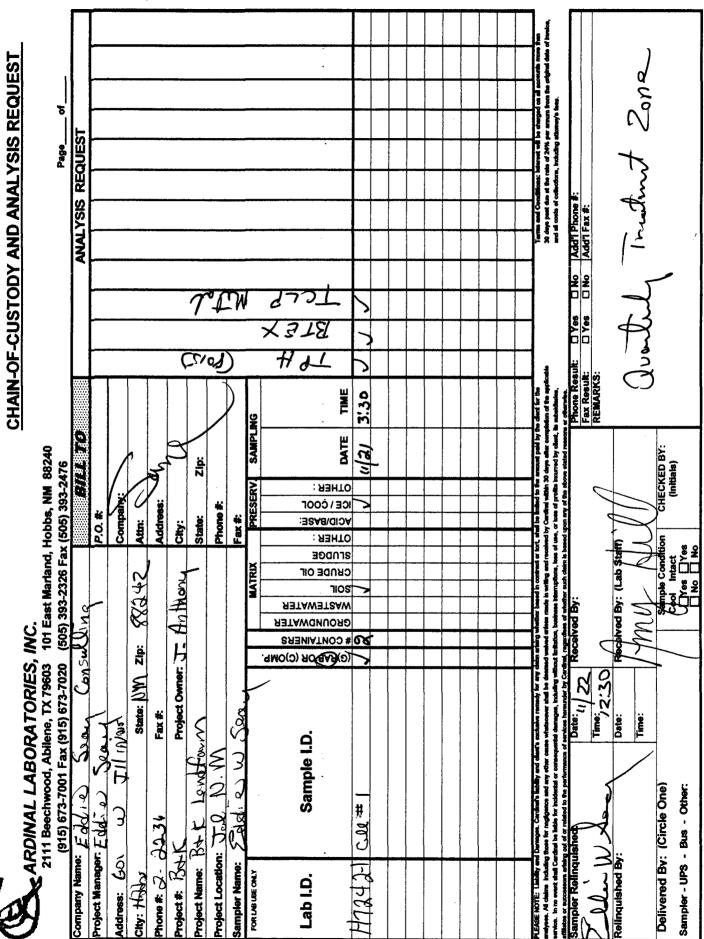
LAB NO.	SAMPLE ID	GRO		BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
LAB NO.		(C ₆ -C ₁₀) (mg/Kg)	(>C ₁₀ −C ₂₈) (mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS	DATE:	11/23/02	11/23/02	11/25/02	11/25/02	11/25/02	11/25/02
H7242-1	CELL #1	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
Quality Cor	ntrol	757	840	0.105	0.101	0.103	0.297
True Value	QC	800	800	0.100	0.100	0.100	0.300
% Recovery	у	94.7	105	105	101	103	99.1
Relative Pe	ercent Difference	4.5	6.5	1.2	1.8	3.2	2.1

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

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H7242.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

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RECEIVED

SEP 0 4 2002 Environmental Bureau Oil Conservation Division

August 30, 2002

NMOCD Environmental Bureau ATTN: Martyne J. Kieling P.O. Box 6429 1220 S. Saint Francis Drive Santa Fe, NM 87504

RE: B & K Landfarm Quarterly

Mrs. Kieling:

Find within the quarterly analytical for the treatment zone testing at B & K Landfarm. Sample was taken at approximately 2 ft. below the landfarm cell.

If you have any questions, please call.

Eddie w Sean

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS. NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 08/21/02 Reporting Date: 08/26/02 Project Owner: J. ANTHONY Project Name: B&K LANDFARM Project Location: JAL, NM Sampling Date: 08/21/02 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: BC

LAB NUMBER SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:	08/21/02	08/21/02	08/23/02	08/23/02	08/23/02	08/23/02
H6972-1 CELL #1	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
	-					
Quality Control	788	768	0.111	0.104	0.106	0.309
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	98.4	96.0	111	104	106	103
Relative Percent Difference	5.6	<0.1	7.3	4.7	2.2	3.8

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

Date

H6972.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incidental or to the subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

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tunt Zone sayla		RTE TPH	× (80/2)	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

May 31, 2002

NMOCD Environmental Bureau ATTN: Martyne J. Kieling P.O. Box 6429 1220 S. Saint Francis Drive Santa Fe, NM 87504

RE: B & K Landfarm Quarterly

Mrs. Kieling:

Find within quarterly treatment zone monitoring sample for B & K Landfarm. Sample was taken at approximately 2 ft below the landfarm surface.

If you have any questions, please call.

Thanks,

Edin Who

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE W. SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 05/22/02 Reporting Date: 05/23/02 Project Owner: J. ANTHONY Project Name: BK LANDFARM Project Location: JAL, NM

Sampling Date: 05/22/02 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: BC

LAB NUMBER SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:	05/22/02	05/22/02	05/23/02	05/23/02	05/23/02	05/23/02
H6760-1 CELL #1	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
Quality Control	790	800	0.106	0.105	0.106	0.305
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	98.8	100	106	105	106	102
Relative Percent Difference	6.3	4.6	1.7	1.4	0.3	0.4

METHODS: TPH GRO & DRO - EPASW-846 8015 M; BTEX - SW-846 8260.

H6760.XLS PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by **Cardinal** within thirty (30) days after completion of the applicable service. In no event shall **Cardinal** be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by **Cardinal**, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

MMAL LABORATORIES, INC. Bechmood, Ablene, T. 77903 101 East Martand, Hobbs, NM 8324 Edd/0 Non-(191 673-700) Sampled Owner, J. M. Micht, Pro-(191 700) Martin Non-(191 673-700) Sampled Owner, J. M. Micht, Non-(191 700) Sampled Downer, J. M. Micht, Non-(191	Basechword, Ablainen, 17, 7903 (101 East Marland, Hobbs, NM 83240 Ed. (a) Convert Status France Status Status France Status	Sempler Rollinguished is run ber Rollinguished By: Rollinguished By: Delivered By: (Circle One) Sempler - UP3 - Bus - Other:	Lab I.D.		Company Name:
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MAR 0 6 2002 Environmental Bureau Oil Conservation Division

March 2, 2002

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NMOCD Environmental Bureau ATTN: Martyne J. Kieling P.O. Box 6429 1220 S. St. Francis Drive Santa Fe, NM 87504

RE: B & K Landfarm, Quarterly Sampling

Mrs. Kieling:

Within is the quarterly sample for the treatment zone at B & K Landfarm. The sample was taken at a depth of approximately 24 in. The core hole was backfilled with red clay.

If you have any questions, please call.

Sincerely,

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236

Client: Eddie Seay Consulting Project: B&K Quarterly Project Manager: Eddie Seay Project Number:

Date Collected: 2/23/02 Date Received: 2/25/02 Sample Matrix: Soil Extraction Date: 2/25/02

EPA Method 8015 DRO

Heal ID	Client ID	Dilution	TPH (DRO) (mg/kg)	Analysis Date
022502-19	Cell 1	1	ND	2/26/02
Extraction Blank		1	ND	2/26/02

QC/QA

<u>Sample</u> <u>ID</u>	Sample <u>Amount</u>	<u>Spike</u>	Recovery	<u>%Recovery</u>
022502-3 MS	ND	100 ppm	104 ppm	104%

022502-3 MSD 100

106 ppm

Client: Eddie Seay Consulting Project: B&K Quarterly Project Manager: Eddie Seay Project Number:

Date Collected: 2/23/02 Date Received: 2/25/02 Sample Matrix: Soil Extraction Date: 2/25/02

EPA Method 8021 BTEX

Heal ID	Client ID	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Total Xylenes (mg/kg)
022502-19	Cell 1	ND	ND	ND	ND
MRL		0.05	0.05	0.05	0.05

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Heads					PAH)			18.1)				5	5	و .		Sampler: Edd, e		26	2-22.36	. 🕾	Pig
space ('s (802		Leo-L		6	Eddie W Sear					
Y or I		_									21)		}	, \	iger:	Project Mana					
N)		J <u>4)</u>)nlv)	<u> </u>				1 val	Yuar		0	Holdos N.M	Hal	
		ISE	REQUEST		ANALYSIS	AN	digen.								-	Project #:	Illinious	E H	1 02	Address:	Add
							·					3	Landfar m	NA	, 2 B:	Project Name: B4K	Consulting	\top	Client: Eddie Som		। ह्व
Environmental, Inc.	ronme		ECD										-				RECORD	CHAIN-OF-CUSTODY RECORD	OF-CU	IAIN-	£
					100 100 100					8 .	•										

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December 12, 2001

RECEIVED

DEC 2 6 2001

Environmental Bureau Oil Conservation Division

M1 12-26-01

NMOCD Environmental Bureau ATTN: Martyne J. Kieling P.O. Box 6429 1220 S. Saint Francis Drive Santa Fe, NM 87504

RE: B & K Landfarm quarterly sampling

Mrs. Kieling:

Within is the quarterly treatment zone sampling for B & K Landfarm. The sample was taken at approximately 2 ft. and hole filled with bentonite.

If you have any questions, please call.

Edden When

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS. NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 11/20/01 Reporting Date: 12/03/01 Project Number: B & K Project Name: B & K LANDFARM Project Location: JAL, NM Sampling Date: 11/19/01 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: AH

TCLP METALS

LAB NUMBER SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:	11/30/01	11/28/01	11/28/01	11/28/01	11/28/01	11/28/01	11/28/01	12/01/01
EPA LIMITS:	5	5	100	1	5	5	0.2	1
H6289-1 CELL 1	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
	· · · · · · · · · · · · · · · · · · ·							
Quality Control	0.152	4.946	22.10	1.014	4.664	4.665	0.0092	0.051
True Value QC	0.150	5.000	25.00	1.000	5.000	5.000	0.0100	0.050
% Accuracy	101	98.9	88.4	101	93.3	93.3	92.0	102
Relative Percent Difference	2.0	0.1	1.8	0.2	0.9	0.9	7.7	0.3
METHODS: EPA 1311, 600/4-79	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

sayle A fat Chemist

03/200/

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. H6289m



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE W. SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 11/20/01 Reporting Date: 11/28/01 Project Number: B&K Project Name: B&K LAND FARM Project Location: JAL, NM Sampling Date: 11/19/01 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: BC

LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS	DATE:	11/27/01	11/27/01	11/26/01	11/26/01	11/26/01	11/26/01
H6289-1	CELL 1	<50	<50	<0.005	<0.005	<0.005	<0.015
		· · · · · · · · · · · · · · · · · · ·				·	
Quality Con	trol	916	1010	0.111	0.102	0.107	0.313
True Value	QC	1000	1000	0.100	0.100	0.100	0.300
% Recovery	·····	91.6	101	111	102	107	102
Relative Per	cent Difference	2.2	15.1	8.8	5.7	2.1	2.3

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

Rook

11/24/0

H6289A.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

address of the of Investor Darterly Freedment zone sample at the second rates 1 5 and in stange ANALYSIS REQUEST Page 20 days part das at the radi and all costs of order DYes DNo Add'I Phone #: DYes DNo Add'I Fax #: 8 rerw 100 d > RT 3 χ H 01 5108 Phone Result: Fax Result: REMARKS: > atur onrejation of the applicable by clear, the advantation, 57:0 TIME and have a set band have A shereby SAMPLING BILL TO DATE 1119 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 CHECKED BY Zip: (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476 (Initials) : ABHTO PRESERV Company: ed upon eny of the Address: CE/COOL Phone #: P.O. # Fex f: Statlec SAR ACID/BASE: Attn: З. Б : ЯЗНТС Sample Condition Cool Intact Received By: (Lab Staff SLUDGE Hulkonu CRUDE OIL MATRIX State: NM ZIP: SK242 ; 205 ABTAWBTEAW Received By: **ЯЭТА**МОИОЯ9 ang upukanya atul ka darang unind arina a artat daragat, kutukny utina ladalin, bah at arriva harandar by Cardini, tepadaan at ARDINAL LABORATORIES, INC. Consultine ń 8 CONTAINER8 AMO(D) RO BAR (C)OMP. Project Owner: Date: 11/20 LEASE NOTE: Limbery and Dormons, Cardanite incitity and about aucturies remedy for any Time and Farm Fact # Time: Date: Saher Sear Sample LD. er l N.Q Eddit Delivered Bv: (Circle One) Sampler - UPS - Bus - Other: Phone #: 392.2236 Company Name: EOULE 3 alpear, At daims brishaling Barra for angles Max, Bran avant and Candard be Sadie for Makes or successors articles and K Net P. Cell roject Location: do SH C Iddress: Log / Project Manager. ampler Relinquis Sampler Name: CAN: Habas Project Name: **Selinguished By** POR LAB USE ONLY 1-28 CUL Lab LD. 5 Project #:

t Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RECEIVED

OCT 1 7 2001 Environmental Bureau Oil Conservation Division

September 10, 2001

NMOCD Environmental Bureau ATTN: Martyne J. Kieling P.O. Box 6429 1220 S. Santa Francis Drive Santa Fe, NM 87504

RE: B & K Landfarm - Quarterly Sampling

Mrs. Kieling:

Within are the quarterly testing of the treatment zone for B & K Landfarm. Samples were taken at approximately 2 ft. and holes backfilled with bentonite.

An inspection of the facility was done and no problems found.

If you have any questions, please call.

Idi when

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236

Client: Eddie Seay Consulting Project: B&K Quarterly Project Manager: Eddie Seay Project Number:

Date Collected: 8/26/01 Date Received: 8/28/01 Sample Matrix: Soil Extraction Date: 8/28/01

EPA Method 8021 BTEX

Heal ID	Client ID	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Total Xylenes (mg/kg)
082801-19	Cell 1	ND	ND	ND	ND
MRL		0.05	0.05	0.05	0.05

Client: Eddie Seay Consulting Project: B&K Quarterly Project Manager: Eddie Seay Project Number: Date Collected: 8/26/01 Date Received: 8/28/01 Sample Matrix: Soil Extraction Date: 8/28/01

EPA Method 8015 DRO

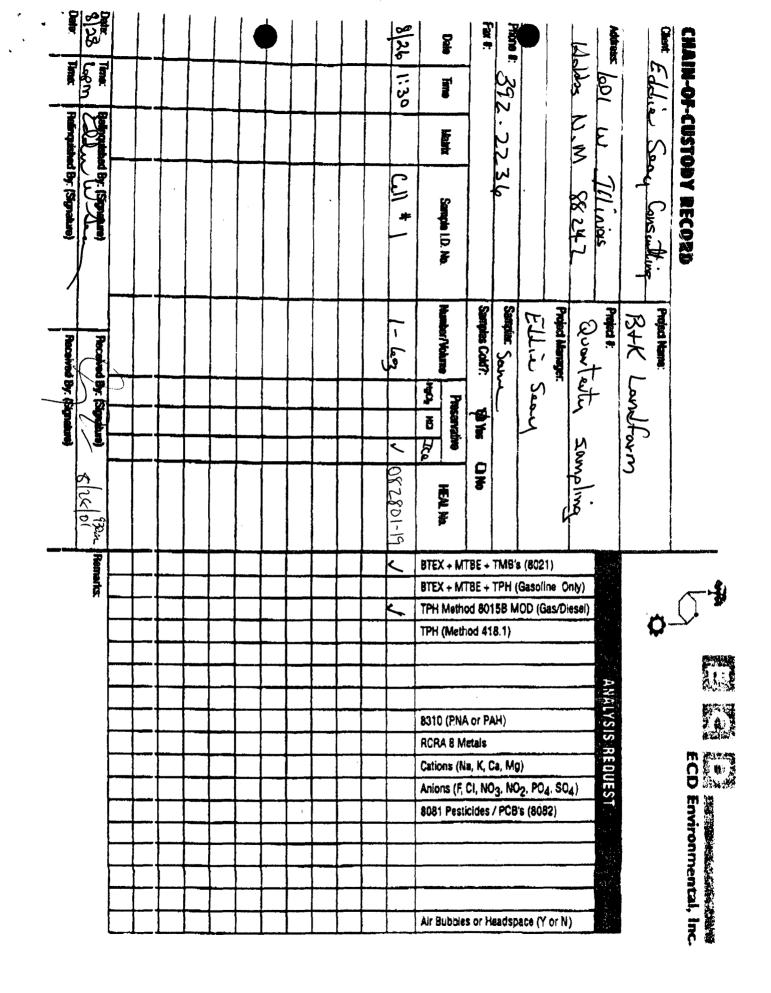
Heal ID	Client ID	Dilution	TPH (DRO) (mg/kg)	Analysis Date
082801-19	Cell 1	1	ND	8/28/01
Extraction Blank		1	ND	8/28/01

QC/QA

Sample IDSample AmountSpike082801-1 MSND100 ppm	Recovery 108 ppm	<u>%Recovery</u> 10%
-------------------------------------------------	---------------------	-------------------------

0052301-1 MSD 100

102



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JUN 6 2001

June 4, 2001

NMOCD Environmental Bureau ATTN: Martyne J. Kieling P.O. Box 6429 1220 S. Saint Francis Drive Santa Fe, NM 87504

RE: B & K Landfarm - Quarterly Sampling

Mrs. Kieling:

Contained within are the quarterly analytical for B & K Landfarm's treatment zone monitoring. Sample was taken at approximately two feet, and hole backfilled with bentonite.

If you have any questions, please call.

Idin under

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236

Client: Eddie Seay Consulting Project: B&K Quarterly Project Manager: Eddie Seay Project Number: Date Collected: 5/22/01 Date Received: 5/23/01 Sample Matrix: Soil Extraction Date: 5/23/01

EPA Method 8015 DRO

Heal ID	Client ID	Dilution	TPH (DRO) (mg/kg)	Analysis Date
0052301-19	Cell 1	1	ND	5/24/01
Extraction Blank		1	ND	5/24/01

QC/QA

Sample ID	Sample Amount	Spike	Recovery	%Recovery
0052301-10 MS	ND	100 ppm	101 pp m	101%

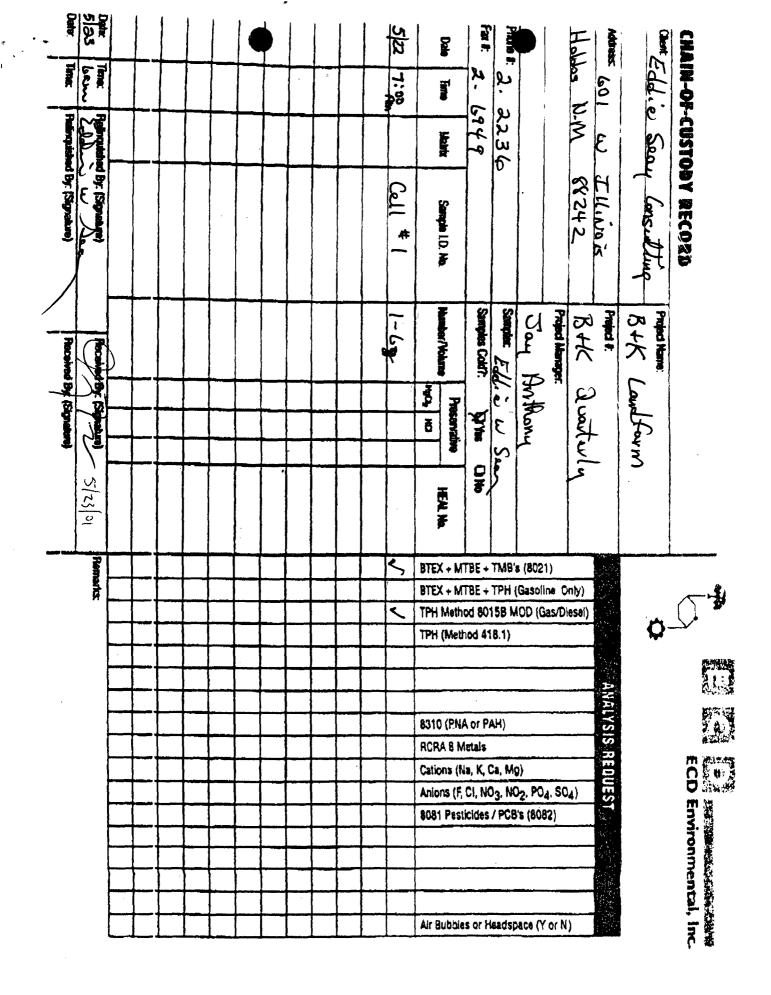
0052301-1 MSD 100

97

Client: Eddie Seay Consulting Project: B&K Quarterly Project Manager: Eddie Seay Project Number: Date Collected: 5/22/01 Date Received: 5/23/01 Sample Matrix: Soil Extraction Date: 5/23/01

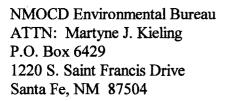
EPA Method 8021 BTEX

Heal ID	Client ID	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Total Xylenes (mg/kg)
0052301-19	Cell 1	ND	ND	ND	ND
MRL		0.05	0.05	0.05	0.05



2

March 16, 2001



RE: B & K Landfarm, Quarterly Testing

Mrs. Kieling:

Find within the quarterly testing for B & K Landfarm. Samples were taken at approximately 2 ft. depth and holes backfilled with bentonite.

GE

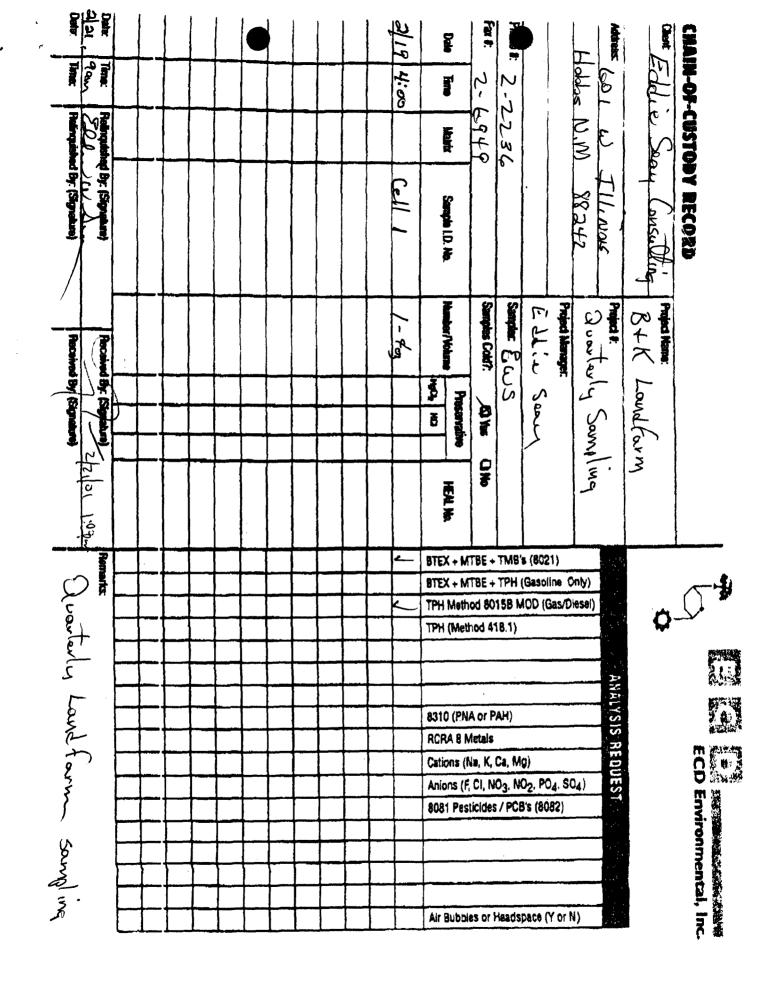
MAR 2 | 2001

NOERVATION DIVIS

If you have any questions, please call.

ulen

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236



.

Client: Eddie Seay Consulting Project: B&K Quarterly Project Manager: Eddie Seay Project Number:

Date Collected: 2/19/01 Date Received: 2/21/01 Sample Matrix: Soil Extraction Date: 2/21/01

EPA Method 8021 BTEX

Heal ID	Client ID	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Total Xylenes (mg/kg)
0022101-18	Cell 1	ND	ND	ND	ND
MRL		0.05	0.05	0.05	0.05

ECD Environmental, Inc.

Client: Eddie Seay Consulting Project: B&K Quarterly Project Manager: Eddie Seay Project Number: Date Collected: 2/19/01 Date Received: 2/21/01 Sample Matrix: Soil Extraction Date: 11/21/01

EPA Method 8015 DRO

Heal ID	Client ID	Dilution	TPH (DRO) (mg/kg)	Analysis Date
0022101-18	Cell 1	1	ND	11/22/01
Extraction Blank		1	ND	11/22/01

QC/QA

Sample ID	Sample <u>Amount</u>	<u>Spike</u>	Recovery	<u>%Recovery</u>
0022101-18 MS	ND	100 ppm	104 ppm	104%
0022101-18 MSE	D 100		100	



W 1 5-2400

May 9, 2000

NMOCD Environmental Bureau ATTN: Martyne J. Kieling 2040 S. Pacheco Santa Fe, NM 87505

RE: B & K Landfarm

Martyne:

Find within analytical for B & K Landfarm. These are the background testing outlined in the permit. If you have any questions or need additional information, please call.

Sincerely,

Elli W A

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR EDDIE W. SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 05/03/00 Reporting Date: 05/05/00 Project Number: NOT GIVEN Project Name: B&K LANDFARM Project Location: JAL, NM

Sampling Date: 05/03/00 Sample Type: SOIL Sample Condition: COOL AND INTACT Sample Received By: AH Analyzed By: AH/GP

RCRA METALS

LAB NUMBER SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:	05/04/00	05/04/00	05/05/00	05/04/00	05/05/00	05/04/00	05/04/00	05/04/00
H4847-1 BK #1	0.5	2.95	252	<1	0.4	<1	<0.2	<1
· · · · · · · · · · · · · · · · · · ·								
······································								
Quality Control	0.046	5.359	55.12	0.485	5.009	4.811	0.0107	0.189
True Value QC	0.050	5.000	50.00	0.500	5.000	5.000	0.0100	0.200
% Recovery	92	107.2	110.2	97	100.2	96.2	107	94.5
Relative Percent Difference	6.3	0.8	0.9	0.7	0.9	3.0	2.3	11.2
METHODS: EPA 600/4-79-020	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2
METHODS: SW-846	7060A	7760A	7080A	7130	7190	7420	7470A	7740

515100

PLEASE **Non-27 Addition Damages. Cardinal's** liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by **Cardinal** within thirty (30) days after completion of the applicable service. In no event shall **Cardinal** be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by **Cardinal**, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR EDDIE W. SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 05/03/00 Reporting Date: 05/05/00 Project Number: NOT GIVEN Project Name: B&K LANDFARM Project Location: JAL, NM Sampling Date: 05/03/00 Sample Type: SOIL Sample Condition: COOL AND INTACT Sample Received By: AH Analyzed By: AH

TOTAL METALS

LAB NUMBER SAMPLE ID	Al (ppm)	Co (ppm)	Cu (ppm)	Fe (ppm)
ANALYSIS DATE:	05/05/00	05/04/00	05/04/00	05/04/00
H4847-1 BK #1	472	1.65	3.3	1138
Quality Control	4.253	4.996	1.042	4.900
True Value QC	5.000	5.000	1.000	5.000
% Recovery	85.1	99.9	104.2	98
Relative Percent Difference	1.1	0.3	0.6	0.8
METHODS: EPA 600/04-79-020	202.1	219.1	220.1	236.1

Mn	Мо	NI	Zn
(ppm)	(ppm)	(ppm)	(ppm)

ANALYSIS DATE:	05/04/00	05/05/00	05/04/00	05/04/00
H4847-1 BK #1	19.45	<1	63.4	3.45
Oursl'A. Ourstand	4.000	4 700	<u> </u>	
Quality Control	1.009	4.766	5.072	0.492
True Value QC	1.000	5.000	5.000	0.500
% Recovery	100.1	95.3	101.4	98.4
Relative Percent Difference	0.4	2.1	2.7	1.7
METHODS: EPA 600/04-79-020	243.1	246.1	249.1	289.1

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PLEASE HOTE: Tubulity and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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ANALYTICAL RESULTS FOR EDDIE W. SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 05/03/00 Reporting Date: 05/09/00 Project Number: NOT GIVEN Project Name: B&K LANDFARM Project Location: JAL, NM

METHODS:

Sampling Date: 05/03/00 Sample Type: SOIL Sample Condition: COOL AND INTACT Sample Received By: AH Analyzed By: AH

120.1

310.1

	Na	Ca	Mg	ĸ	Conductivity	T-Alkalinity
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/L)	(mg/L)	(mg/L)	(mS/cm)	(mgCaCO ₃ /Kg)

ANALYSIS DATE:	05/09/00	05/09/00	05/09/00	05/09/00	05/09/00	05/09/00
H4847-1 BK #1	110	176	49	360	20	1184
Quality Control	NR	48	53	5.08	1392	NR
True Value QC	NR	50	50	5.00	1413	NR
% Recovery	NR	96	106	102	98.5	NR
Relative Percent Difference	NR	8.3	9.4	0.4	0.2	NR

SM3500-Ca-D 3500-Mg E

CI SO₄ CO₃ HCO₃ pH (mg/L) (mg/L) (mg/L) (s.u.)

8049

ANALYSIS DATE:	05/09/00	05/09/00	05/09/00	05/09/00	05/09/00
H4847-1 BK #1	112	0	0	1444	6.06
Quality Control	1110	102	NR	952	6.93
True Value QC	1000	100	NR	1000	7.00
% Recovery	111	102	NR	95	99
Relative Percent Difference	9.9	0	NR	2.0	0.1
METHODS:	SM4500-CI-B	375.4	310.1	310.1	150.1

PLEASE NOTE: Llability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates 446470 SALS out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR EDDIE W. SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO:

Receiving Date: 05/03/00 Reporting Date: 05/05/00 Project Number: NOT GIVEN Project Name: B&K LANDFARM Project Location: JAL, NM Sampling Date: 05/03/00 Sample Type: SOIL Sample Condition: COOL AND INTACT Sample Received By: AH Analyzed By: BC

LAB NUMBER SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:	05/04/00	05/04/00	05/04/00	05/04/00	05/04/00	05/04/00
H4847-1 BK #1	<50	<50	<0.005	<0.005	<0.005	<0.015
Quality Control	938	1034	0.095	0.099	0.097	0.287
True Value QC	1000	1000	0.100	0.100	0.100	0.300
% Recovery	93.8	103	95.2	99.3	97.2	95.8
Relative Percent Difference	2.1	12.3	8.3	7.1	1.7	2.4

METHODS: TPH(GRO & DRO) - EPA SW-846 8015 M; BTEX/MTBE-EPA SW-846 8260

5/00

PLEASE HOTE: Gathing and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

Additional Facility of Landy of Landy and dark status from the status of the status	DU X X A Sample D ID ID ID	2) (J) State: MM Zip: 182540 State: MM Zip: 182540 Address: Project Owner: J - Am/Hon-4 City: City: Project Owner: J - Am/Hon-4 Phone #: Low Fax #:	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476 Company Name: Edd, c) S. ac. Consultation
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RECEIVED

MAR 3 0 1999

Environmental Bureau Oil Conservation Division

B & K LANDFARM

LANDTREATMENT APPLICATION

LEA COUNTY, NEW MEXICO

MARCH 22, 1999

P. O. Boz Hobbs, I District 811 S. F Artesia, District	NM 88241-1980 JI - (505) 748-1283	Energy Mine	rals and N Oil Conse 2040 Sou Santa Fe, N	w Mexico atural Reso rvation Div th Pacheco St New Mexico 8 5) 827-7131	vision reet 7505	MAR 3	EIVE" 0 1999	C I Coț	Form C-137 Driginated 8/8/95 Submit Original Plus 1 Copy to Santa Fe by to appropriate District Office
<u></u>		APPLICATION (Refer to the OCD			GEMEN	FACILIT	Y		
		🖌 Commercia	l			Centralized			
1.	Туре:	Evaporation		Injection		🔲 Oth	er		
	X	Solids/Landfarm		Treating Plant		—			
2.	Operator: <u>B</u>	& K Landfarn	0						
	Address: $P \cdot O$	Box 398	Jal, NM	88252	×.,				/
	Contact Person:	Jay Anthony				Phone:	105)395-3 105)390-7	7385	
3.	Location:		/4 Secti	on1 wing exact loca	_ Townsh				
4.	Is this a modifica	ation of an existing f	acility?	Yes 🕱	No				
5.	Attach the name	and address of the	landowner of	the facility site	and lando	wners of rec	cord within on	e mile	of the site.
O _{6.}	Attach description	on of the facility with	a diagram ir	dicating locati	on of fenc	es, pits, dike	es, and tanks	on the	acility.
7.	or ponds, leak-de	prepared in accorda etection systems, ae s, and landfarm faci	rations system	ns, enhanced (
8.	Attach a conting	ency plan for repor	ling and clear	n-up for spills c	r releases				
9.	Attach a routine	inspection and mai	ntenance pla	n to ensure pe	rmit comp	liance.	• •		
10.	Attach a closure	plan					a Agener		
11.		al/hydrological evid epth to and quality				oil field was	stes will not a	advers	ely impact
12	. Attach proof tha	t the notice require	ments of OC	Rule 711 hav	re been m	et.			
13	. Attach a conting	gency plan in the ev	ent of a relea	se of H₂S.					
14	. Attach such oth orders.	er information as ne	ecessary to de	emonstrate co	mpliance	with any oth	er OCD rules	, regul	ations and
15	. CERTIFICATIO	N							
	l hereby certify and belief.	that the information	submitted w	ith this applica	tion is true	e and correc	ct to the best	of my	knowledge
I	Name: Eddie	e W. Seay		Title:	Ager	nt		<u> </u>	
	Signature:	this w.	Sean	Date:	Marc	ch 22, 1	999		

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- 2) B & K Landfarm Bailey Anthony Katelyn Anthony
- SW 1/4 of Section 1, Tws. 26, Range 36 E., Lea Co. a 160 acre tract of land.

4) No

- 5) Attachment Landowners of Record within 1 mile.
- 6) The 160 acre proposed site will be operated according to OCD guidelines.
 - a) The entire facility will be fenced with 4 strain barbed wire.
 - b) A 100 ft. buffer zone will be maintained around the facility.
 - c) Berms will be installed around the site to direct runoff and run-on of rainwater. These berms will be constructed 3 ft. wide x 2 ft. high, this should control and contain any moisture from a 100 yr. flood. Also, water will not be allowed to pond. Any excess rain will be vacuumed up and taken to an approved disposal.
 - d) All accesses and gates will be locked at all times.
 - e) Soils will only by allowed when B & K personnel are on location.
 - f) There is one pipeline running north and south on the east side of the proposed site. The EOTT line is buried approximately 3 ft. No landfarming will occur within 20 ft. of any pipeline and equipment will be allowed within 10 ft. All lines marked.
 - g) A sign will be posted at entrance and will detail all the OCD requirements, phone, permit no., name, etc.
- 7) Diagram within.
- 8) B & K will adhere to OCD Rule 116.
 - a) Report any accidental discharge by phone immediately.
 - b) Cleanup and/or remediate according to OCD policy.
 - c) File written reports as necessary.
- 9) Inspection and Maintenance Plan
 - a) The facility will be fenced and gates locked at all times. Personnel will be on location at all times when material is being hauled, and each load will be documented.
 - b) When and if any water accumulated on the property from rain, it will be vacuumed up and hauled to an approved OCD disposal.
 - c) Water may be added to the landfarm from time to time for dust control and to enhance remediation and will help keep any odor down, if that were to occur.
 - d) Berms will be inspected and maintained on a routine basis so as to prevent erosion, especially after rainfall or windstorm.

- e) Because a landfarm is designed to remediate contaminated soils and not transfer contaminants into underlying native soil and/or groundwater, "Treatment Zone Monitoring" will be used at the facility. The treatment zone monitoring will consist of :
 - (1) Test the background soil at the facility at a depth of 2 to 3 ft. The samples will be analyzed for TPH, BTEX, Cations/Anions and heavy metals using approved EPA methods.
 - (2) A treatment zone not to exceed 3 ft. beneath the landfarm will be monitored. Samples will be taken from each cell on a quarterly schedule and analyzed for BTEX and TPH and for BTEX, TPH, Catons/Anions and heavy metals annually. All sample holes will be filled with an impermeable material such as cement or bentonite. All test results will be submitted to the OCD in Santa Fe.
 - (3) Only exempt oil and gas waste will be accepted at the landfarm unless special approval by OCD. The material accepted will have documentation as to where, what company, who delivered it and signed by an authorized company person. The material will be hauled in by truck, spread into 6 in. lifts and disked every other week.
 - (4) A new lift may be added only after testing and approval from OCD.
- 10) Closure plan: once B & K has stopped operations, it is estimated that it will take approximately two years to finish remediating what soils are left in the landfarm. We will continue to disk, test, and monitor until facility meets with OCD guidelines. After all criteria is met, the area will be leveled, contoured and seeded.

Closure cost for this two year period is as follows: Estimating that there will be 20 five acre cells in use at time of closure.

Analytical test for 2 years	
BTEX 8 quarters \$40.00 X 20	\$6400
TPH 8 quarters \$50.00 X 20	\$8000
Metals 2 years \$200.00 X 20	\$8000
Cations/Anions 2 years \$100.00 X 20	\$4000
TOTAL	\$26,400

Quarterly sampling time and labor for 20 cells Labor at \$50.00 per hour 30 Minutes per cell 20 cells equals 10 hours per sampling event plus 1 hr. for report 11 hrs. X \$50.00 X 8 quarters.

TOTAL \$4,400

Disking for two years every two weeks Actual disking area approximately 100 acres - (roads, buffer zone, pipeline, etc.) \$30.00 per hr. - 15 min. per acre 100 acres X 15 min, X 52 wks. 2 yrs. = 78000 min = 1300 hrs. 1300 hrs. X \$30.00 per hr. = \$39,000 for disking & tilling.

Freshwater as needed \$120.00 per load \$120 X 12 loads X 10 events in two years = \$14,400

Leveling and Contouring Landfarm D-6 dozer with operator \$75.00 per hr. \$75 X 160 acres = \$12,000 total

Revegetation for 160 acres Tractor and drill \$30.00 per hr. at 15 min. per acre, 160 acres = \$1200 Seed cost & material \$10.00 per lb. at 5 lbs. per acre X 160 acres = \$8000 TOTAL REVEGATATION COST = \$9,200

TOTAL ESTIMATED CLOSURE COST WOULD BE = \$105,400

11) Geology - Hydrology

Geographically, the site is situated in the southeastern corner of Lea Co. in the Pecos Valley section of the Great Plains Physiographic Province at the southern edge of Eunice plains. The plain is a partially flat and featureless alluvial plain which slopes eastward at 20 ft. per mile. The entire area is underlain with caliche and is almost entirely covered with reddish brown dune sand.

No water wells were found within the area of review. Water being used in the area is taken from a pipeline which runs to Jal. Attachment.

- 12) Notice of requirement to offsets.
- 13) An open system such as a landfarm should not have an H2S problem If H2S becomes a problem, proper testing and notification will be conducted.
- 14) B & K will adhere to all applicable rules and regulations pertaining to this permit.

March 22, 1999

Dear Landowner:

Pursuant to the rules of the NMOCD, B & K Landfarm is seeking application with the New Mexico Oil Conservation Division to operate a commercial land treatment facility. The facility, a 160 acre tract of land, is located in the SW 1/4 of Section 1, Township 26, Range 36 East, Lea Co., New Mexico. The facility is seeking to remediate RCRA exempt and characteristically non-hazardous hydrocarbon contaminated soils associated with oil and gas production. The soils are remediated by spreading them on the ground surface in 6 in. lifts or less and periodically disking them to enhance biodegration of the contaminants. The facility will be owned and operated by Jay Anthony.

Any questions about the application may be directed to Eddie W. Seay, (505)392-2236 or 601 W. Illinois, Hobbs, NM 88242. Any protest or comments may be directed to the Oil Conservation Division, 2040 S. Pacheco, Santa Fe, NM 87505, (505)827-7131, within 30 days.

Thank you,

PALIN W Les.

Eddie W. Seay, Agent

Jay and Cary Anthony Box 398 Jal, NM 88252

Tom and Evelyn Lineberry Foundation 4305 N. Garfield, Suite 260 Midland, TX 79705

Juan Gaytan Box 683 Jal, NM 88252

Michael W. Emerson Box 75 Jal, NM 88252

Norma Bryant Box 484 Jal, NM 88252

Aaron Dobbs Box 1113 Jal, NM 88252

R.E. Keagle 15 Legend Road Ft. Worth, TX 76132

Ruben Ramos Box 756 Jal, NM 88252

Eloise Dobbs Box 446 Jal, NM 88252

Del Whatley 7934 Bluebonnet San Angelo, TX 76901 Fred B. Cooper RR #1, Box 141 Blossom, TX 75416

Wayne and Marsha Webster Box 1063 Jal, NM 88252

Epifanio M. Lopez Box 689 Jal, NM 88252

Geraldine Williams Box 20 Jal, NM 88252

Johnnie J. Moore 3732 Crossroad Roswell, NM 88201

Henry Fulfer Box 863 Jal, NM 88252

William E. Hill Box 776 Jal, NM 88252

Floyd Taylor Box 857 Jal, NM 88252

Frank B. Frame Box 1017 Jal, NM 88252

Bonner Ivey Box 11 Jal, NM 88252 El Paso Natural Gas Co. 1800 Wilco Bldg. Midland, TX 79701

Billy Ralph Emerson Box 224 Jal, NM 88252

Elvis Andrews 8100 Spry Rd. Evansville, IN 477150

Juanita Railey 3613 Jonette Dr. Fr. Worth, TX 761180

Peter A. Panagopoulos 1805 Sandy Lane Carlsbad, NM 88220

Manard A. Rylant 119 North Cecil Hobbs, NM 88240

Mary Mattison Fancher HCR Box 391 Duncan, AZ 85534

Mary Ellen Capps, et al Box 792 Buda, TX 78760

Earl Jones Box 1993 Plainview, TX 79072

Quince White Box 987 Jal, NM 88252 Bill and Jack Taylor 1106 N. Country Club Carlsbad, NM 88220

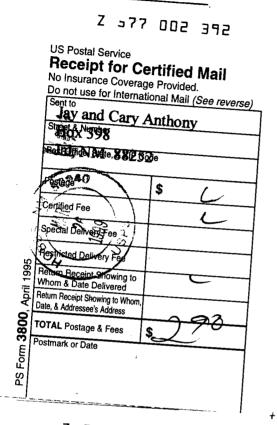
Oscar Velasco Box 1094 Jal, NM 88252

Carolyn Browning 1044 Birch Las Cruces, NM 88001 Jerry Galle Drawer RR Jal, NM 88252

David Duke 3400 Slocum St. El Paso, NM 79936

State Land Office 310 Old Santa Fe Trail Box 1148 Santa Fe, NM 87504-1148 Elvia Andrade and Luis Tavarez Box 28 Jal, NM 88252

Armando Meza Box 619 Jal, NM 88252



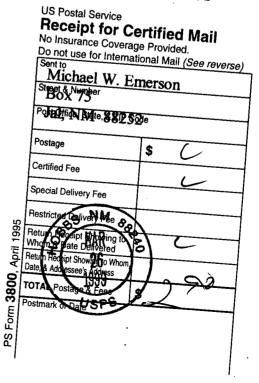
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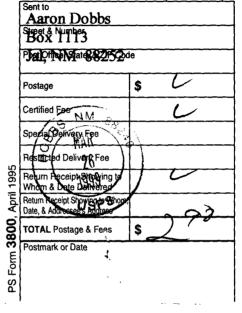
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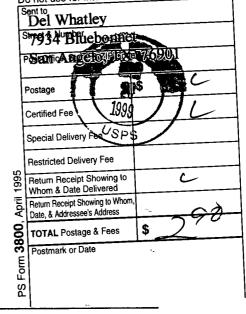
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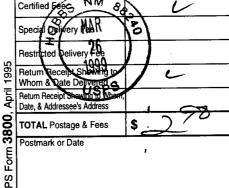
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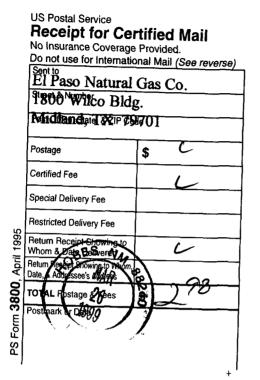
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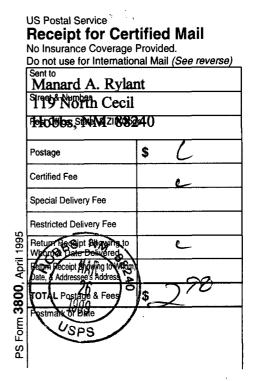
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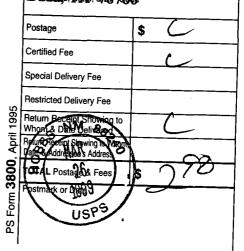
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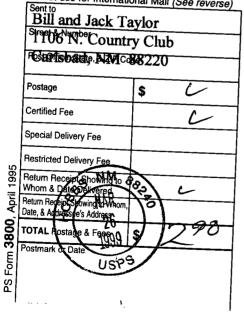
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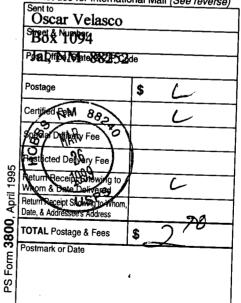
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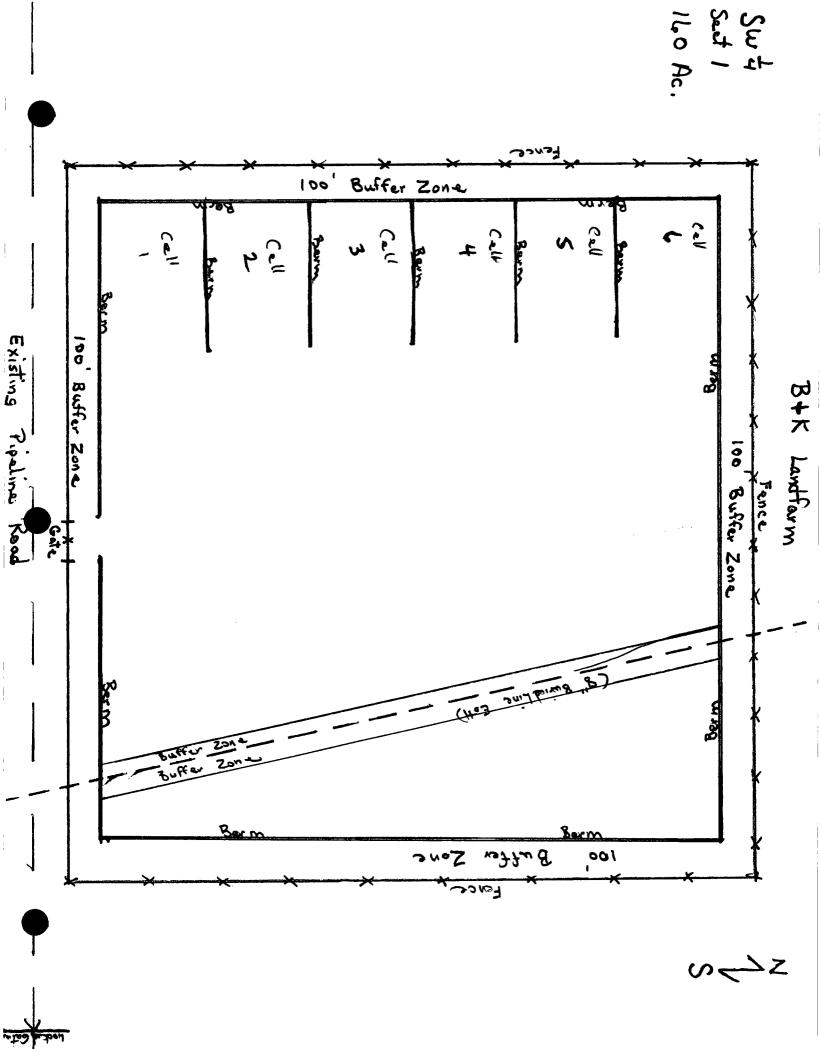
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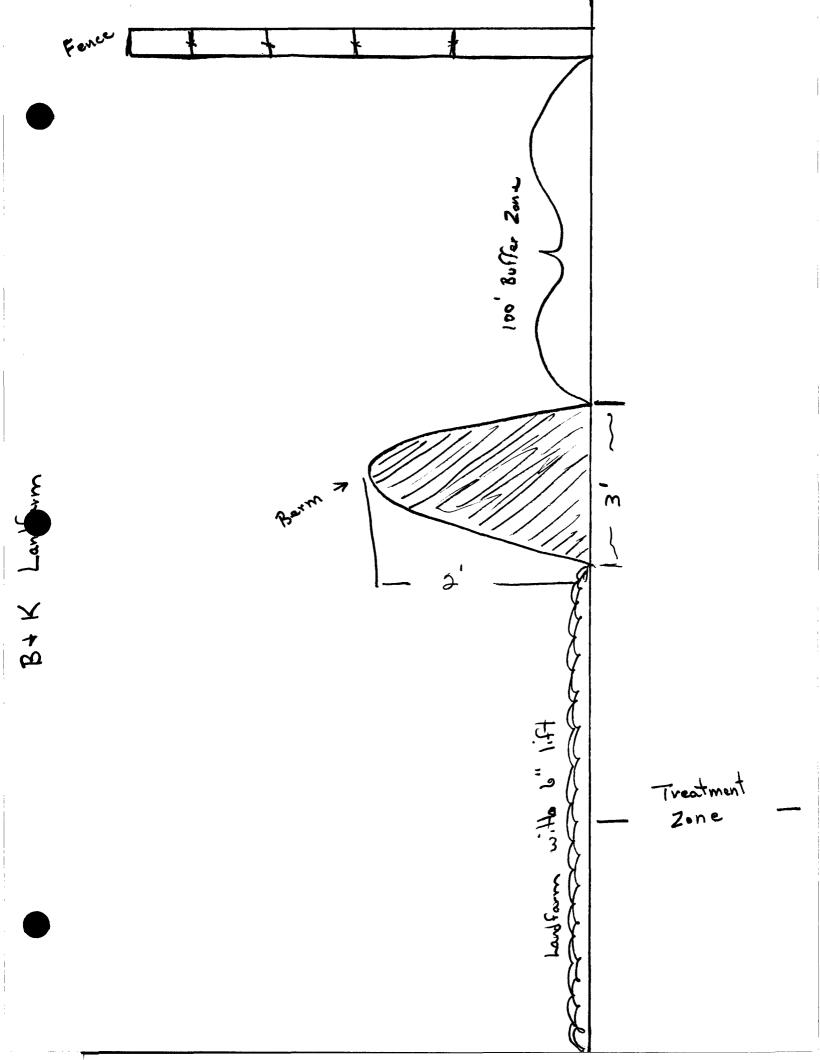
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Table 5

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	Geologic Age	Geologic Unit	Thickness (ft)	General Character	Water-Bearing Properties
	Recent	Send	0-30-	Dune sand, unconsolidated stabilized to drifting, semiconsolidated at depth; fine-to medium-grained.	Above the zone of saturation, hence, does not yield water to wells. Aids recharge to underlying formations by permitting rapid infiltration of rainwater.
Quaternary	Pleistocene	Alluvium .	0-400 [±]	Channel and lake deposits; alternating thick bedded calcareous silt, fine sand, and clay; thickest in San Simon Swale; less than 100 feet thick in most places.	Saturated and highly permeable in places in east end of Laguna Valley. Forms continuous aquifer with Ogailals formation. Wells usually yield less than 30 gpm. Locally above the water table.
Tertiary	Pliocene	Ogallala	0-300 -	Semiconsolidated fine-grained calcareous sand capped with thick layer of caliche; contains some clay, silt, and gravel.	Major water-bearing formation of the area. Unsaturated in many localities, such as north side of Gramm Ridge, west side of Eunice Plain, Antelope Ridge area, and Rattlesnake Ridge. Greatest saturated thickness along east side of Eunice Plain, west of Monument Draw, where wells yield to 30 gpm. Highest yields, up to 700 gpm, obtained from wells along south edge of Eunice Plain, east of Jal.
Mesozolo Cretaceous		Undifferentiated	 35 [±]	Small isolated and buried residual blocks of limestone, about 3 miles east of Eumice.	Possibly small isolated bodies of water locally
stc		Chinle formation	0-1,270-	Claystone, red and green; minor fine- grained sandstones and siltstones; underlies all of eastern part of southern Les County area; then westward; absent in extreme west.	Yields small quantities of water from sandstone bods. Yields are rarely over 10 gpm. Water has high sulfate content.
Triassic Deckin and		Santa Rosa sandstone	140-300 [±]	Sandstone, chiefly red but locally white, gray, or greenish-gray; fine-to coarse-grained; exposed in extreme west; underlies Cenozoic rocks in western part of area, and is present at depth in eastern part.	Yields small quantities of water over most of of the area. Some wells are reported to yield as much as 100 gpm. Water has high sulfate content.
Permian or		Undifferentiated	90-400+	Siltstone, red, shale, and sandstone; present at depth under all of southern Les County.	No wells are known to be bottomed in the red beds. Probably can yield very small quan- tities of high-sulfate water.
Paleozoic Ordovician			6,500-17,000-	Thick basin deposits ranging in character from evaporites to coarse clastics; thinnest on the east side of the area over the Central basin platform, thickest toward the southwest.	No presently usable water supply available from these rocks. Source of highly mineralized oil-field waters.
Precambrian		- -		Granite, granodioritic and other igneous and metamorphic rocks; complex structure.	Not hydrologically significant.

Information from Nicholson, A. and A. Clebsch, Geology and Ground-Water Conditions in Southern Lea County, New Mexico, New Mexico Bureau of Mines and Mineral Resources, New Mexico Institute of Mining and Technology, Socorro, NM 1961.

