

GW - 37

# GENERAL CORRESPONDENCE

YEAR(S):

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2003

PINNACLE  
LABORATORIES

2709-D Pan American Freeway NE  
Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
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Pinnacle Lab ID number      **310136**  
November 17, 2003

INTERA  
6501 AMERICAS PRKWY NE STE.820  
ALBUQUERQUE, NM 87110

NMOCD  
1220 South St. Francis Drive  
Santa Fe, NM 87505

Project Name              ARAHO  
Project Number          ARAHO

Attention:              JOE TRACY/MARTYNE KIELING

On 10/24/03 Pinnacle Laboratories Inc., (ADHS Lincense No. AZ0643), received a request to analyze **non-aq** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA method 8015/8021 analyses were performed by Pinnacle Laboratories, Inc. Albuquerque, NM.

All remaining analyses were performed by Severn Trent Laboratories, Inc. Pensacola, FL.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.



H. Mitchell Rubenstein, Ph.D.  
General Manager, Pinnacle Laboratories, Inc.

MR: jt

Enclosure

PINNACLE  
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CLIENT : INTERA PINNACLE ID : 310136  
PROJECT # : ARAHO DATE RECEIVED : 10/24/03  
PROJECT NAME : ARAHO REPORT DATE : 11/17/03

ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
310136 - 01	T6-3B	NON-AQ	10/23/03
310136 - 02	T3-2	NON-AQ	10/23/03
310136 - 03	T3-4	NON-AQ	10/23/03
310136 - 04	T1W-1	NON-AQ	10/23/03
310136 - 05	T1E-1	NON-AQ	10/23/03
310136 - 06	RS1-3	NON-AQ	10/23/03
310136 - 07	RS2-2	NON-AQ	10/23/03
310136 - 08	T2-3	NON-AQ	10/23/03
310136 - 09	T1/3-3	NON-AQ	10/23/03
310136 - 10	T4-2B	NON-AQ	10/23/03
310136 - 11	RS3-3	NON-AQ	10/23/03
310136 - 12	T4-2	NON-AQ	10/23/03
310136 - 13	T5-2	NON-AQ	10/23/03
310136 - 14	T6-3	NON-AQ	10/23/03
310136 - 15	S6-2	NON-AQ	10/23/03
310136 - 16	RS4-3.5	NON-AQ	10/23/03
310136 - 17	RS5-1	NON-AQ	10/23/03
310136 - 18	DL1-2	NON-AQ	10/23/03
310136 - 19	S9-2	NON-AQ	10/23/03
310136 - 20	S1-.5	NON-AQ	10/23/03
310136 - 21	S1-1N	NON-AQ	10/23/03
310136 - 22	S8-.5	NON-AQ	10/23/03
310136 - 23	DL1-2B	NON-AQ	10/23/03
310136 - 24	C-1	NON-AQ	10/24/03
310136 - 25	C-3	NON-AQ	10/24/03
310136 - 26	C-5	NON-AQ	10/24/03
310136 - 27	C-7	NON-AQ	10/24/03
310136 - 28	C-8	NON-AQ	10/24/03
310136 - 29	C-6	NON-AQ	10/24/03
310136 - 30	C-4	NON-AQ	10/24/03
310136 - 31	C-2	NON-AQ	10/24/03
310136 - 32	C-9	NON-AQ	10/24/03
310136 - 33	C-10	NON-AQ	10/24/03
310136 - 34	C-11	NON-AQ	10/24/03
310136 - 35	C-13	NON-AQ	10/24/03

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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B MODIFIED - METHANOL PRESERVATION  
CLIENT : INTERA  
PROJECT # : ARAHO  
PROJECT NAME : ARAHO

PINNACLE I.D. : 310136  
ANALYST : BP

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	T6-3B	NON-AQ	10/23/03	NA	10/27/03	1
02	T3-2	NON-AQ	10/23/03	NA	10/29/03	5
03	T3-4	NON-AQ	10/23/03	NA	10/27/03	1

PARAMETER	DET. LIMIT	UNITS	T6-3B	T3-2	T3-4
BENZENE	0.025	MG/KG	< 0.025	0.15	< 0.025
TOLUENE	0.025	MG/KG	< 0.025	0.24	< 0.025
ETHYLBENZENE	0.025	MG/KG	< 0.025	0.78	< 0.025
TOTAL XYLENES	0.050	MG/KG	< 0.050	0.73	< 0.050

SURROGATE:  
BROMOFLUOROBENZENE (%) 102 111 112  
SURROGATE LIMITS ( 80 - 120 )  
DRY WEIGHT (%) 79 88 81

CHEMIST NOTES:  
N/A



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# GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B MODIFIED - METHANOL PRESERVATION  
CLIENT : INTERA  
PROJECT # : ARAHO  
PROJECT NAME : ARAHO

PINNACLE I.D. : 310136  
ANALYST : BP

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	T1W-1	NON-AQ	10/23/03	NA	10/27/03	1
05	T1E-1	NON-AQ	10/23/03	NA	10/27/03	1
06	RS1-3	NON-AQ	10/23/03	NA	10/29/03	2

PARAMETER	DET. LIMIT	UNITS	T1W-1	T1E-1	RS1-3
BENZENE	0.025	MG/KG	< 0.025	< 0.025	< 0.050
TOLUENE	0.025	MG/KG	< 0.025	< 0.025	< 0.050
<b>ETHYLBENZENE</b>	<b>0.025</b>	<b>MG/KG</b>	< 0.025	<b>0.030</b>	< 0.050
TOTAL XYLENES	0.050	MG/KG	< 0.050	< 0.050	< 0.10

SURROGATE:  
BROMOFLUOROBENZENE (%) 116 111 106  
SURROGATE LIMITS ( 80 - 120 )  
DRY WEIGHT (%) 85 81 92

CHEMIST NOTES:  
N/A

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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B MODIFIED - METHANOL PRESERVATION  
CLIENT : INTERA  
PROJECT # : ARAHO  
PROJECT NAME : ARAHO

PINNACLE I.D. : 310136  
ANALYST : BP

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
07	RS2-2	NON-AQ	10/23/03	NA	10/27/03	1
08	T2-3	NON-AQ	10/23/03	NA	10/29/03	5
09	T1/3-3	NON-AQ	10/23/03	NA	10/27/03	1
PARAMETER		DET. LIMIT	UNITS	RS2-2	T2-3	T1/3-3
BENZENE		0.025	MG/KG	< 0.025	0.43	< 0.025
TOLUENE		0.025	MG/KG	< 0.025	0.17	< 0.025
ETHYLBENZENE		0.025	MG/KG	< 0.025	3.6	< 0.025
TOTAL XYLENES		0.050	MG/KG	< 0.050	8.6	< 0.050

SURROGATE:  
BROMOFLUOROBENZENE (%) 104 105 99  
SURROGATE LIMITS ( 80 - 120 )  
DRY WEIGHT (%) 88 85 84

CHEMIST NOTES:  
N/A

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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B MODIFIED - METHANOL PRESERVATION  
CLIENT : INTERA  
PROJECT # : ARAHO  
PROJECT NAME : ARAHO

PINNACLE I.D. : 310136  
ANALYST : BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	T4-2B	NON-AQ	10/23/03	NA	10/29/03	2
11	RS3-3	NON-AQ	10/23/03	NA	10/28/03	1
12	T4-2	NON-AQ	10/23/03	NA	10/29/03	2

PARAMETER	DET. LIMIT	UNITS	T4-2B	RS3-3	T4-2
BENZENE	0.025	MG/KG	< 0.050	< 0.025	< 0.050
TOLUENE	0.025	MG/KG	< 0.050	< 0.025	< 0.050
ETHYLBENZENE	0.025	MG/KG	< 0.050	< 0.025	< 0.050
TOTAL XYLENES	0.050	MG/KG	< 0.10	< 0.050	< 0.10

SURROGATE:  
BROMOFLUOROBENZENE (%) 115 98 111  
SURROGATE LIMITS ( 80 - 120 )  
DRY WEIGHT (%) 80 87 80

CHEMIST NOTES:  
N/A

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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B MODIFIED - METHANOL PRESERVATION  
CLIENT : INTERA  
PROJECT # : ARAHO  
PROJECT NAME : ARAHO

PINNACLE I.D. : 310136  
ANALYST : BP

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
13	T5-2	NON-AQ	10/23/03	NA	10/28/03	2
14	T6-3	NON-AQ	10/23/03	NA	10/29/03	2
15	S6-2	NON-AQ	10/23/03	NA	10/29/03	1

PARAMETER	DET. LIMIT	UNITS	T5-2	T6-3	S6-2
BENZENE	0.025	MG/KG	< 0.050	< 0.050	< 0.025
TOLUENE	0.025	MG/KG	< 0.050	< 0.050	< 0.025
ETHYLBENZENE	0.025	MG/KG	0.074	< 0.050	0.046
TOTAL XYLENES	0.050	MG/KG	< 0.10	< 0.10	0.12

SURROGATE:  
BROMOFLUOROBENZENE (%) 113 115 117  
SURROGATE LIMITS ( 80 - 120 )  
DRY WEIGHT (%) 81 80 87

CHEMIST NOTES:  
N/A

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TEST : EPA 8021B MODIFIED - METHANOL PRESERVATION  
CLIENT : INTERA  
PROJECT # : ARAHO  
PROJECT NAME : ARAHO

PINNACLE I.D. : 310136  
ANALYST : BP

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
16	RS4-3.5	NON-AQ	10/23/03	NA	10/28/03	1
17	RS5-1	NON-AQ	10/23/03	NA	10/28/03	1
18	DL1-2	NON-AQ	10/23/03	NA	10/28/03	5
PARAMETER		DET. LIMIT	UNITS	RS4-3.5	RS5-1	DL1-2
BENZENE		0.025	MG/KG	< 0.025	< 0.025	< 0.13
TOLUENE		0.025	MG/KG	< 0.025	< 0.025	< 0.13
ETHYLBENZENE		<b>0.025</b>	<b>MG/KG</b>	< 0.025	< 0.025	<b>0.61</b>
TOTAL XYLENES		<b>0.050</b>	<b>MG/KG</b>	< 0.050	< 0.050	<b>1.8</b>

SURROGATE:  
BROMOFLUOROBENZENE (%) 105 108 111  
SURROGATE LIMITS ( 80 - 120 )  
DRY WEIGHT (%) 90 92 81

CHEMIST NOTES:  
N/A

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TEST : EPA 8021B MODIFIED - METHANOL PRESERVATION  
CLIENT : INTERA  
PROJECT # : ARAHO  
PROJECT NAME : ARAHO

PINNACLE I.D. : 310136  
ANALYST : BP

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
19	S9-2	NON-AQ	10/23/03	NA	10/28/03	1
20	S1-.5	NON-AQ	10/23/03	NA	10/28/03	1
21	S1-1N	NON-AQ	10/23/03	NA	10/28/03	1
PARAMETER		DET. LIMIT	UNITS	S9-2	S1-.5	S1-1N
BENZENE		0.025	MG/KG	< 0.025	< 0.025	< 0.025
TOLUENE		0.025	MG/KG	< 0.025	< 0.025	< 0.025
ETHYLBENZENE		0.025	MG/KG	< 0.025	< 0.025	< 0.025
TOTAL XYLENES		0.050	MG/KG	< 0.050	< 0.050	< 0.050

SURROGATE:  
BROMOFLUOROBENZENE (%) 105 106 105  
SURROGATE LIMITS ( 80 - 120 )  
DRY WEIGHT (%) 84 94 88

CHEMIST NOTES:  
N/A

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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B MODIFIED - METHANOL PRESERVATION  
CLIENT : INTERA  
PROJECT # : ARAHO  
PROJECT NAME : ARAHO

PINNACLE I.D. : 310136  
ANALYST : BP

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
22	S8-.5	NON-AQ	10/23/03	NA	10/28/03	1
23	DL1-2B	NON-AQ	10/23/03	NA	10/29/03	5

PARAMETER	DET. LIMIT	UNITS	S8-.5	DL1-2B
BENZENE	0.025	MG/KG	< 0.025	< 0.13
TOLUENE	0.025	MG/KG	< 0.025	< 0.13
ETHYLBENZENE	0.025	MG/KG	< 0.025	1.9
TOTAL XYLENES	0.050	MG/KG	< 0.050	5.8

SURROGATE:  
BROMOFLUOROBENZENE (%) 98 118  
SURROGATE LIMITS ( 80 - 120 )  
DRY WEIGHT (%) 88 83

CHEMIST NOTES:  
N/A

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GAS CHROMATOGRAPHY RESULTS  
REAGENT BLANK

TEST	: EPA 8021B MODIFIED	PINNACLE I.D.	: 310136
BLANK I. D.	: 102703	DATE EXTRACTED	: N/A
CLIENT	: INTERA	DATE ANALYZED	: 10/27/03
PROJECT #	: ARAHO	SAMPLE MATRIX	: FP
PROJECT NAME	: ARAHO	ANALYST	: BP

PARAMETER	UNITS	
BENZENE	MG/KG	<0.025
TOLUENE	MG/KG	<0.025
ETHYLBENZENE	MG/KG	<0.025
TOTAL XYLENES	MG/KG	<0.050

SURROGATE:

BROMOFLUOROBENZENE (%)

99

SURROGATE LIMITS:

CHEMIST NOTES:

N/A



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GAS CHROMATOGRAPHY RESULTS  
REAGENT BLANK

TEST	: EPA 8021B MODIFIED	PINNACLE I.D.	: 310136
BLANK I. D.	: 102803A	DATE EXTRACTED	: N/A
CLIENT	: INTERA	DATE ANALYZED	: 10/28/03
PROJECT #	: ARAHO	SAMPLE MATRIX	: FP
PROJECT NAME	: ARAHO	ANALYST	: BP

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PARAMETER	UNITS	
BENZENE	MG/KG	<0.025
TOLUENE	MG/KG	<0.025
ETHYLBENZENE	MG/KG	<0.025
TOTAL XYLENES	MG/KG	<0.050

SURROGATE:  
BROMOFLUOROBENZENE (%) 96  
SURROGATE LIMITS:  
CHEMIST NOTES:  
N/A

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GAS CHROMATOGRAPHY RESULTS  
REAGENT BLANK

TEST	: EPA 8021B MODIFIED	PINNACLE I.D.	: 310136
BLANK I. D.	: 102803B	DATE EXTRACTED	: N/A
CLIENT	: INTERA	DATE ANALYZED	: 10/29/03
PROJECT #	: ARAHO	SAMPLE MATRIX	: FP
PROJECT NAME	: ARAHO	ANALYST	: BP

PARAMETER	UNITS	
BENZENE	MG/KG	<0.025
TOLUENE	MG/KG	<0.025
ETHYLBENZENE	MG/KG	<0.025
TOTAL XYLENES	MG/KG	<0.050

SURROGATE:  
BROMOFLUOROBENZENE (%)

97

SURROGATE LIMITS:

CHEMIST NOTES:

N/A

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GAS CHROMATOGRAPHY RESULTS  
REAGENT BLANK

TEST	: EPA 8021B MODIFIED	PINNACLE I.D.	: 310136
BLANK I. D.	: 102903	DATE EXTRACTED	: N/A
CLIENT	: INTERA	DATE ANALYZED	: 10/29/03
PROJECT #	: ARAHO	SAMPLE MATRIX	: FP
PROJECT NAME	: ARAHO	ANALYST	: BP

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PARAMETER	UNITS	
BENZENE	MG/KG	<0.025
TOLUENE	MG/KG	<0.025
ETHYLBENZENE	MG/KG	<0.025
TOTAL XYLENES	MG/KG	<0.050

SURROGATE:  
BROMOFLUOROBENZENE (%) 103  
SURROGATE LIMITS:  
CHEMIST NOTES:  
N/A

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GAS CHROMATOGRAPHY QUALITY CONTROL  
LCS/LCSD

TEST : EPA 8021B MODIFIED  
BATCH # : 102703  
CLIENT : INTERA  
PROJECT # : ARAHO  
PROJECT NAME : ARAHO

PINNACLE I.D. : 310136  
DATE EXTRACTED : N/A  
DATE ANALYZED : 10/27/03  
SAMPLE MATRIX : FP  
UNITS : MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.025	1.00	1.05	105	1.04	104	1	( 80 - 120 )	20
TOLUENE	<0.025	1.00	1.03	103	1.03	103	0	( 80 - 120 )	20
ETHYLBENZENE	<0.025	1.00	1.06	106	1.05	105	1	( 80 - 120 )	20
TOTAL XYLENES	<0.050	3.00	3.17	106	3.14	105	1	( 80 - 120 )	20

CHEMIST NOTES:  
N/A

% Recovery = 
$$\frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

RPD (Relative Percent Difference) = 
$$\frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

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GAS CHROMATOGRAPHY QUALITY CONTROL  
LCS/LCSD

TEST : EPA 8021B MODIFIED  
BATCH # : 102803A  
CLIENT : INTERA  
PROJECT # : ARAHO  
PROJECT NAME : ARAHO

PINNACLE I.D. : 310136  
DATE EXTRACTED : N/A  
DATE ANALYZED : 10/28/03  
SAMPLE MATRIX : FP  
UNITS : MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.025	1.00	1.02	102	1.02	102	0	( 80 - 120 )	20
TOLUENE	<0.025	1.00	1.01	101	1.00	100	1	( 80 - 120 )	20
ETHYLBENZENE	<0.025	1.00	1.03	103	1.02	102	1	( 80 - 120 )	20
TOTAL XYLENES	<0.050	3.00	3.06	102	3.03	101	1	( 80 - 120 )	20

CHEMIST NOTES:  
N/A

% Recovery =  $\frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$

RPD (Relative Percent Difference) =  $\frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$

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GAS CHROMATOGRAPHY QUALITY CONTROL  
LCS/LCSD

TEST	: EPA 8021B MODIFIED	PINNACLE I.D.	: 310136
BATCH #	: 102803B	DATE EXTRACTED	: N/A
CLIENT	: INTERA	DATE ANALYZED	: 10/29/03
PROJECT #	: ARAHO	SAMPLE MATRIX	: FP
PROJECT NAME	: ARAHO	UNITS	: MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.025	1.00	1.03	103	1.06	106	3	( 80 - 120 )	20
TOLUENE	<0.025	1.00	1.01	101	1.03	103	2	( 80 - 120 )	20
ETHYLBENZENE	<0.025	1.00	1.04	104	1.05	105	1	( 80 - 120 )	20
TOTAL XYLENES	<0.050	3.00	3.10	103	3.14	105	1	( 80 - 120 )	20

CHEMIST NOTES:  
N/A

% Recovery = 
$$\frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

RPD (Relative Percent Difference) = 
$$\frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

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GAS CHROMATOGRAPHY QUALITY CONTROL  
LCS/LCSD

TEST	: EPA 8021B MODIFIED	PINNACLE I.D.	: 310136
BATCH #	: 102903	DATE EXTRACTED	: N/A
CLIENT	: INTERA	DATE ANALYZED	: 10/29/03
PROJECT #	: ARAHO	SAMPLE MATRIX	: FP
PROJECT NAME	: ARAHO	UNITS	: MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.025	1.00	1.02	102	1.03	103	1	( 80 - 120 )	20
TOLUENE	<0.025	1.00	1.01	101	1.01	101	0	( 80 - 120 )	20
ETHYLBENZENE	<0.025	1.00	1.04	104	1.03	103	1	( 80 - 120 )	20
TOTAL XYLENES	<0.050	3.00	3.06	102	3.02	101	1	( 80 - 120 )	20

CHEMIST NOTES:  
N/A

% Recovery = 
$$\frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

RPD (Relative Percent Difference) = 
$$\frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

PINNACLE  
LABORATORIES

2709-D Pan American Freeway NE  
Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL  
MS/MSD

TEST : EPA 8021B MODIFIED  
MSMSD # : 310136-01  
CLIENT : INTERA  
PROJECT # : ARAHO  
PROJECT NAME : ARAHO

PINNACLE I.D. : 310136  
DATE EXTRACTED : N/A  
DATE ANALYZED : 10/27/03  
SAMPLE MATRIX : FP  
UNITS : MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.025	1.00	1.07	107	1.06	106	1	( 80 - 120 )	20
TOLUENE	<0.025	1.00	1.07	107	1.05	105	2	( 80 - 120 )	20
ETHYLBENZENE	<0.025	1.00	1.10	110	1.08	108	2	( 80 - 120 )	20
TOTAL XYLENES	<0.050	3.00	3.27	109	3.19	106	2	( 80 - 120 )	20

CHEMIST NOTES:  
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$



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GAS CHROMATOGRAPHY QUALITY CONTROL  
MS/MSD

TEST	: EPA 8021B MODIFIED	PINNACLE I.D.	: 310136
MSMSD #	: 310136-16	DATE EXTRACTED	: N/A
CLIENT	: INTERA	DATE ANALYZED	: 10/28/03
PROJECT #	: ARAHO	SAMPLE MATRIX	: FP
PROJECT NAME	: ARAHO	UNITS	: MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.025	1.00	1.07	107	1.04	104	3	( 80 - 120 )	20
TOLUENE	<0.025	1.00	1.08	108	1.03	103	5	( 80 - 120 )	20
ETHYLBENZENE	<0.025	1.00	1.09	109	1.06	106	3	( 80 - 120 )	20
TOTAL XYLENES	<0.050	3.00	3.26	109	3.17	106	3	( 80 - 120 )	20

CHEMIST NOTES:  
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)  
CLIENT : INTERA  
PROJECT # : ARAHO  
PROJECT NAME : ARAHO

PINNACLE I.D. : 310136  
ANALYST : VPH

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	T6-3B	NON-AQ	10/23/03	10/27/03	10/29/03	1
02	T3-2	NON-AQ	10/23/03	10/27/03	10/29/03	5
03	T3-4	NON-AQ	10/23/03	10/27/03	10/29/03	1

PARAMETER	DET. LIMIT	UNITS	T6-3B	T3-2	T3-4
FUEL HYDROCARBONS, C6-C10	10	MG/KG	< 10	380	< 10
FUEL HYDROCARBONS, C10-C22	10	MG/KG	17	2100	120
FUEL HYDROCARBONS, C22-C36	10	MG/KG	46	1400	360
CALCULATED SUM:			63	3880	480

SURROGATE:  
O-TERPHENYL (%) 102 92 89  
SURROGATE LIMITS ( 70-130 )

CHEMIST NOTES:  
N/A

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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)  
CLIENT : INTERA  
PROJECT # : ARAHO  
PROJECT NAME : ARAHO

PINNACLE I.D. : 310136  
ANALYST : VPH

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	T1W-1	NON-AQ	10/23/03	10/27/03	10/29/03	5
05	T1E-1	NON-AQ	10/23/03	10/27/03	10/28/03	1
06	RS1-3	NON-AQ	10/23/03	10/27/03	10/28/03	1

PARAMETER	DET. LIMIT	UNITS	T1W-1	T1E-1	RS1-3
FUEL HYDROCARBONS, C6-C10	10	MG/KG	150	11	11
FUEL HYDROCARBONS, C10-C22	10	MG/KG	2500	250	50
FUEL HYDROCARBONS, C22-C36	10	MG/KG	1400	77	45
CALCULATED SUM:			4050	338	106

SURROGATE:  
O-TERPHENYL (%) 85 78 102  
SURROGATE LIMITS ( 70-130 )

CHEMIST NOTES:  
N/A

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# GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)  
CLIENT : INTERA  
PROJECT # : ARAHO  
PROJECT NAME : ARAHO

PINNACLE I.D. : 310136  
ANALYST : VPH

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
07	RS2-2	NON-AQ	10/23/03	10/27/03	10/29/03	2
08	T2-3	NON-AQ	10/23/03	10/27/03	10/29/03	10
09	T1/3-3	NON-AQ	10/23/03	10/27/03	10/28/03	1

PARAMETER	DET. LIMIT	UNITS	RS2-2	T2-3	T1/3-3
FUEL HYDROCARBONS, C6-C10	10	MG/KG	23	870	< 10
FUEL HYDROCARBONS, C10-C22	10	MG/KG	1800	4500	57
FUEL HYDROCARBONS, C22-C36	10	MG/KG	1100	1900	120
CALCULATED SUM:			2923	7270	177

SURROGATE:  
O-TERPHENYL (%) 84 110 96  
SURROGATE LIMITS ( 70-130 )

CHEMIST NOTES:  
N/A

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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)  
CLIENT : INTERA  
PROJECT # : ARAHO  
PROJECT NAME : ARAHO

PINNACLE I.D. : 310136  
ANALYST : VPH

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
10	T4-2B	NON-AQ	10/23/03	10/27/03	10/28/03	1
11	RS3-3	NON-AQ	10/23/03	10/27/03	10/28/03	1
12	T4-2	NON-AQ	10/23/03	10/27/03	10/28/03	1
PARAMETER		DET. LIMIT	UNITS	T4-2B	RS3-3	T4-2
FUEL HYDROCARBONS, C6-C10		10	MG/KG	< 10	< 10	18
FUEL HYDROCARBONS, C10-C22		10	MG/KG	60	180	610
FUEL HYDROCARBONS, C22-C36		10	MG/KG	120	290	270
CALCULATED SUM:				180	470	898
SURROGATE:						
O-TERPHENYL (%)				99	86	93
SURROGATE LIMITS				( 70-130 )		

CHEMIST NOTES:

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# GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)  
CLIENT : INTERA  
PROJECT # : ARAHO  
PROJECT NAME : ARAHO

PINNACLE I.D. : 310136  
ANALYST : VPH

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
13	T5-2	NON-AQ	10/23/03	10/28/03	10/29/03	1
14	T6-3	NON-AQ	10/23/03	10/28/03	10/30/03	1
15	S6-2	NON-AQ	10/23/03	10/28/03	10/30/03	20

PARAMETER	DET. LIMIT	UNITS	T5-2	T6-3	S6-2
FUEL HYDROCARBONS, C6-C10	10	MG/KG	77	< 10	210
FUEL HYDROCARBONS, C10-C22	10	MG/KG	1100 D2	17	10000
FUEL HYDROCARBONS, C22-C36	10	MG/KG	51	15	760
CALCULATED SUM:			1228	32	10970

SURROGATE:  
O-TERPHENYL (%) 94 95 S3  
SURROGATE LIMITS ( 70-130 )

## CHEMIST NOTES:

D2 = Reported from a 2x dilution run on 10/30/03.

S3 = Surrogate diluted out.

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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)  
CLIENT : INTERA  
PROJECT # : ARAHO  
PROJECT NAME : ARAHO

PINNACLE I.D. : 310136  
ANALYST : VPH

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
16	RS4-3.5	NON-AQ	10/23/03	10/28/03	10/29/03	1
17	RS5-1	NON-AQ	10/23/03	10/28/03	10/29/03	1
18	DL1-2	NON-AQ	10/23/03	10/28/03	10/29/03	1

PARAMETER	DET. LIMIT	UNITS	RS4-3.5	RS5-1	DL1-2
FUEL HYDROCARBONS, C6-C10	10	MG/KG	< 10	< 10	340
FUEL HYDROCARBONS, C10-C22	10	MG/KG	< 10	370	6300 D10
FUEL HYDROCARBONS, C22-C36	10	MG/KG	< 10	830	850
CALCULATED SUM:				1200	7490

SURROGATE:

O-TERPHENYL (%)

98

88

99

SURROGATE LIMITS

( 70-130 )

CHEMIST NOTES:

Reported from a 10x dilution run on 10/30/03.

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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)  
CLIENT : INTERA  
PROJECT # : ARAHO  
PROJECT NAME : ARAHO

PINNACLE I.D. : 310136  
ANALYST : VPH

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
19	S9-2	NON-AQ	10/23/03	10/28/03	10/30/03	1
20	S1-.5	NON-AQ	10/23/03	10/28/03	10/30/03	10
21	S1-1N	NON-AQ	10/23/03	10/28/03	10/30/03	1

PARAMETER	DET. LIMIT	UNITS	S9-2	S1-.5	S1-1N
FUEL HYDROCARBONS, C6-C10	10	MG/KG	10	100	< 10
FUEL HYDROCARBONS, C10-C22	10	MG/KG	340	1800	130
FUEL HYDROCARBONS, C22-C36	10	MG/KG	800	2900	310
CALCULATED SUM:			1150	4800	440

SURROGATE:  
O-TERPHENYL (%) 79 106 81  
SURROGATE LIMITS ( 70-130 )

CHEMIST NOTES:  
N/A



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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)  
CLIENT : INTERA  
PROJECT # : ARAHO  
PROJECT NAME : ARAHO

PINNACLE I.D. : 310136  
ANALYST : VPH

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
22	S8-.5	NON-AQ	10/23/03	10/28/03	10/30/03	1
23	DL1-2B	NON-AQ	10/23/03	10/28/03	10/29/03	1

PARAMETER	DET. LIMIT	UNITS	S8-.5	DL1-2B
FUEL HYDROCARBONS, C6-C10	10	MG/KG	< 10	380
FUEL HYDROCARBONS, C10-C22	10	MG/KG	300	8400 D10
FUEL HYDROCARBONS, C22-C36	10	MG/KG	700	990
CALCULATED SUM:			1000	9770

SURROGATE:  
O-TERPHENYL (%) 81 111  
SURROGATE LIMITS ( 70-130 )

CHEMIST NOTES:  
Reported at a 10x dilution run on 10/30/03.

PINNACLE  
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GAS CHROMATOGRAPHY RESULTS  
EXTRACTION BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 310136
BLANK I.D.	: 102803	DATE EXTRACTED	: 10/28/03
CLIENT	: INTERA	DATE ANALYZED	: 10/29/03
PROJECT #	: ARAHO	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: ARAHO	ANALYST	: VPH

PARAMETER	UNITS	
FUEL HYDROCARBONS, C6-C10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	MG/KG	< 10
FUEL HYDROCARBONS, C22-C36	MG/KG	< 10

SURROGATE:  
O-TERPHENYL (%) 96  
SURROGATE LIMITS (70-130)

CHEMIST NOTES:  
N/A

PINNACLE  
LABORATORIES

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GAS CHROMATOGRAPHY RESULTS  
EXTRACTION BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 310136
BLANK I.D.	: 102703	DATE EXTRACTED	: 10/27/03
CLIENT	: INTERA	DATE ANALYZED	: 10/28/03
PROJECT #	: ARAHO	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: ARAHO	ANALYST	: VPH

PARAMETER	UNITS	
FUEL HYDROCARBONS, C6-C10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	MG/KG	< 10
FUEL HYDROCARBONS, C22-C36	MG/KG	< 10

SURROGATE:

O-TERPHENYL (%)		96
SURROGATE LIMITS	(70-130)	

CHEMIST NOTES:  
N/A

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GAS CHROMATOGRAPHY QUALITY CONTROL  
LCS/LCSD

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 310136
LCS/LCSD #	: 102703	DATE EXTRACTED	: 10/27/03
CLIENT	: INTERA	DATE ANALYZED	: 10/28/03
PROJECT #	: ARAHO	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: ARAHO	UNITS	: MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<10	200	204	102	203	102	0	(70-130)	20

CHEMIST NOTES:  
N/A

$$\frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

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GAS CHROMATOGRAPHY QUALITY CONTROL  
LCS/LCSD

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 310136
LCS/LCSD #	: 102803	DATE EXTRACTED	: 10/28/03
CLIENT	: INTERA	DATE ANALYZED	: 10/29/03
PROJECT #	: ARAHO	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: ARAHO	UNITS	: MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<10	200	183	92	194	97	6	(70-130)	20

CHEMIST NOTES:  
N/A

$$\frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

PINNACLE  
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GAS CHROMATOGRAPHY QUALITY CONTROL  
MSMSD

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 310136
MSMSD #	: 310136-01	DATE EXTRACTED	: 10/27/03
CLIENT	: INTERA	DATE ANALYZED	: 10/28/03
PROJECT #	: ARAHO	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: ARAHO	UNITS	: MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<10	200	196	98	211	106	7	(70-130)	20

CHEMIST NOTES:  
N/A

$$\frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

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GAS CHROMATOGRAPHY QUALITY CONTROL  
MSMSD

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 310136
MSMSD #	: 310136-17	DATE EXTRACTED	: 10/28/03
CLIENT	: INTERA	DATE ANALYZED	: 10/29/03
PROJECT #	: ARAHO	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: ARAHO	UNITS	: MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	370	200	659	145 <b>M4</b>	607	119	8	(70-130)	20

CHEMIST NOTES:

M4 = % Recovery is outside of PLI criteria.

$$\frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

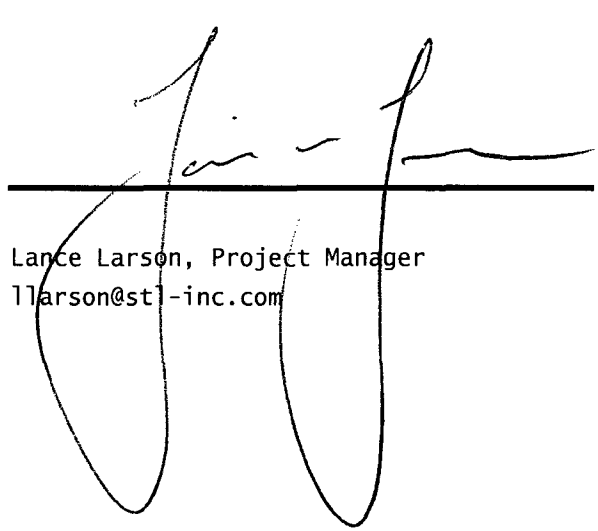
$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

## Analytical Report

For: Ms. Jacinta Tenorio  
Pinnacle Laboratories  
2709-D Pan American Freeway Northeast  
Albuquerque, NM 87107

CC:

Order Number: C310776  
SDG Number:  
Client Project ID:  
Project: 310136, NMOCD-ARAO  
Report Date: 11/12/2003  
Sampled By: Client  
Sample Received Date: 10/28/2003  
Requisition Number:  
Purchase Order: 310136



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Lance Larson, Project Manager  
llarson@stl-inc.com

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.



## Sample Summary

Order: C310776  
Date Received: 10/28/2003

Client: Pinnacle Laboratories  
Project: 310136, NMOCD-ARAHO

Client Sample ID	Lab Sample ID	Matrix	Date Sampled
T6-3B/310136-01	C310776*1	Solid	10/23/2003 11:44
T3-2/310136-02	C310776*2	Solid	10/23/2003 12:06
T3-4/310136-03	C310776*3	Solid	10/23/2003 12:12
T1W-1/310136-04	C310776*4	Solid	10/23/2003 12:25
T1E-1/310136-05	C310776*5	Solid	10/23/2003 12:48
RS1-3/310136-06	C310776*6	Solid	10/23/2003 13:45
RS2-2/310136-07	C310776*7	Solid	10/23/2003 13:57
T2-3/310136-08	C310776*8	Solid	10/23/2003 14:10
T1/3-3/310136-09	C310776*9	Solid	10/23/2003 14:35
T4-2B/310131-10	C310776*10	Solid	10/23/2003 15:09
RS3-3/310136-11	C310776*11	Solid	10/23/2003 16:41
T4-2/310136-12	C310776*12	Solid	10/23/2003 17:00
T5-2/310136-13	C310776*13	Solid	10/23/2003 17:13
T6-3/310136-14	C310776*14	Solid	10/23/2003 17:27
F6-2/310136-15	C310776*15	Solid	10/23/2003 17:39
RS4-3.5/310136-16	C310776*16	Solid	10/23/2003 17:52
RS5-1/310136-17	C310776*17	Solid	10/23/2003 18:00
DL1-2/310136-18	C310776*18	Solid	10/23/2003 18:20
S9-2/310136-19	C310776*19	Solid	10/23/2003 18:33
S1-.5/310136-20	C310776*20	Solid	10/23/2003 18:47
S1-1N/310136-21	C310776*21	Solid	10/23/2003 18:55
S8-.5/310136-22	C310776*22	Solid	10/23/2003 18:25
DL1-2B/310136-23	C310776*23	Solid	10/23/2003 19:20
C-1/310136-24	C310776*24	Solid	10/24/2003 08:30
C-3/310136-25	C310776*25	Solid	10/24/2003 08:33
C-5/310136-26	C310776*26	Solid	10/24/2003 08:36
C-7/310136-27	C310776*27	Solid	10/24/2003 08:42
C-8/310136-28	C310776*28	Solid	10/24/2003 08:47
C-6/310136-29	C310776*29	Solid	10/24/2003 08:54
C-4/310136-30	C310776*30	Solid	10/24/2003 08:58
C-2/310136-31	C310776*31	Solid	10/24/2003 09:03
C-9/310136-32	C310776*32	Solid	10/24/2003 09:10
C-10/310136-33	C310776*33	Solid	10/24/2003 09:15
C-11/310136-34	C310776*34	Solid	10/24/2003 09:20
C-13/310136-35	C310776*35	Solid	10/24/2003 09:28

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
10776-1	T6-3B/310136-01	Solid	10/28/03	10/23/03 11:44	
10776-2	T3-2/310136-02	Solid	10/28/03	10/23/03 12:06	
10776-3	T3-4/310136-03	Solid	10/28/03	10/23/03 12:12	
10776-4	T1W-1/310136-04	Solid	10/28/03	10/23/03 12:25	
10776-5	T1E-1/310136-05	Solid	10/28/03	10/23/03 12:48	

Parameter	Units	Lab Sample IDs				
		10776-1	10776-2	10776-3	10776-4	10776-5
Chloride (9251)						
Chloride	mg/kg dw	7300	2700	5800	990	2700
Percent Solids		79	86	77	80	80
Dilution Factor		100	50	50	50	50
Prep Date		10/30/03	10/30/03	10/30/03	10/30/03	10/30/03
Analysis Date		10/30/03	10/30/03	10/30/03	10/30/03	10/30/03
Batch ID		CKS077S	CKS077S	CKS077S	CKS077S	CKS077S
Prep Method		SOP 885	SOP 885	SOP 885	SOP 885	SOP 885
Analyst		CR	CR	CR	CR	CR

# Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
10776-6	RS1-3/310136-06	Solid	10/28/03	10/23/03 13:45	
10776-7	RS2-2/310136-07	Solid	10/28/03	10/23/03 13:57	
10776-8	T2-3/310136-08	Solid	10/28/03	10/23/03 14:10	
10776-9	T1/3-3/310136-09	Solid	10/28/03	10/23/03 14:35	
10776-10	T4-2B/310131-10	Solid	10/28/03	10/23/03 15:09	

## Lab Sample IDs

Parameter	Units	10776-6	10776-7	10776-8	10776-9	10776-10
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### Chloride (9251)

Chloride	mg/kg dw	1300	2800	3600	5600	9700
Percent Solids		92	91	86	81	84
Dilution Factor		50	50	50	50	250
Prep Date		10/30/03	10/30/03	10/30/03	10/30/03	10/30/03
Analysis Date		10/30/03	10/30/03	10/30/03	10/30/03	10/30/03
Batch ID		CKS077S	CKS077S	CKS077S	CKS077S	CKS077S
Prep Method		SOP 885	SOP 885	SOP 885	SOP 885	SOP 885
Analyst		CR	CR	CR	CR	CR

## Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
10776-11	RS3-3/310136-11	Solid	10/28/03	10/23/03 16:41	
10776-12	T4-2/310136-12	Solid	10/28/03	10/23/03 17:00	
10776-13	T5-2/310136-13	Solid	10/28/03	10/23/03 17:13	
10776-14	T6-3/310136-14	Solid	10/28/03	10/23/03 17:27	
10776-15	F6-2/310136-15	Solid	10/28/03	10/23/03 17:39	

## Lab Sample IDs

Parameter	Units	10776-11	10776-12	10776-13	10776-14	10776-15
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## Chloride (9251)

Chloride	mg/kg dw	6500	11000	6300	8000	2800
Percent Solids		88	79	78	80	88
Dilution Factor		100	250	100	100	50
Prep Date		10/30/03	10/30/03	10/30/03	10/30/03	10/30/03
Analysis Date		10/30/03	10/30/03	10/30/03	10/30/03	10/30/03
Batch ID		CKS077S	CKS077S	CKS077S	CKS077S	CKS077S
Prep Method		SOP 885	SOP 885	SOP 885	SOP 885	SOP 885
Analyst		CR	CR	CR	CR	CR

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
10776-16	RS4-3.5/310136-16	Solid	10/28/03	10/23/03 17:52	
10776-17	RS5-1/310136-17	Solid	10/28/03	10/23/03 18:00	
10776-18	DL1-2/310136-18	Solid	10/28/03	10/23/03 18:20	
10776-19	S9-2/310136-19	Solid	10/28/03	10/23/03 18:33	
10776-20	S1-.5/310136-20	Solid	10/28/03	10/23/03 18:47	

Parameter	Units	Lab Sample IDs				
		10776-16	10776-17	10776-18	10776-19	10776-20
Chloride (9251)						
Chloride	mg/kg dw	2100	630	1500	5400	11000
Percent Solids		90	92	83	85	94
Dilution Factor		50	50	50	50	250
Prep Date		10/30/03	10/30/03	10/30/03	10/30/03	10/30/03
Analysis Date		10/30/03	10/30/03	10/30/03	10/30/03	10/30/03
Batch ID		CKS077S	CKS077S	CKS077S	CKS077S	CKS077S
Prep Method		SOP 885	SOP 885	SOP 885	SOP 885	SOP 885
Analyst		CR	CR	CR	CR	CR

## Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
10776-21	S1-1N/310136-21	Solid	10/28/03	10/23/03 18:55	
10776-22	S8-.5/310136-22	Solid	10/28/03	10/23/03 18:25	
10776-23	DL1-2B/310136-23	Solid	10/28/03	10/23/03 19:20	
10776-24	C-1/310136-24	Solid	10/28/03	10/24/03 08:30	
10776-25	C-3/310136-25	Solid	10/28/03	10/24/03 08:33	

## Lab Sample IDs

Parameter	Units	10776-21	10776-22	10776-23	10776-24	10776-25
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## Chloride (9251)

Chloride	mg/kg dw	3400	1100	1400	1800	4100
Percent Solids		85	87	82	91	91
Dilution Factor		50	50	50	50	50
Prep Date		10/30/03	10/30/03	10/30/03	10/30/03	10/30/03
Analysis Date		10/30/03	10/30/03	10/30/03	10/30/03	10/30/03
Batch ID		CKS078S	CKS078S	CKS078S	CKS078S	CKS078S
Prep Method		SOP 885	SOP 885	SOP 885	SOP 885	SOP 885
Analyst		CR	CR	CR	CR	CR

## Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
10776-26	C-5/310136-26	Solid	10/28/03	10/24/03 08:36	
10776-27	C-7/310136-27	Solid	10/28/03	10/24/03 08:42	
10776-28	C-8/310136-28	Solid	10/28/03	10/24/03 08:47	
10776-29	C-6/310136-29	Solid	10/28/03	10/24/03 08:54	
10776-30	C-4/310136-30	Solid	10/28/03	10/24/03 08:58	

## Lab Sample IDs

Parameter	Units	10776-26	10776-27	10776-28	10776-29	10776-30
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## Chloride (9251)

Chloride	mg/kg dw	9300	730	2400	3900	3000
Percent Solids		96	95	98	86	95
Dilution Factor		250	50	50	50	50
Prep Date		10/30/03	10/30/03	10/30/03	10/30/03	10/30/03
Analysis Date		10/30/03	10/30/03	10/30/03	10/30/03	10/30/03
Batch ID		CKS078S	CKS078S	CKS078S	CKS078S	CKS078S
Prep Method		SOP 885	SOP 885	SOP 885	SOP 885	SOP 885
Analyst		CR	CR	CR	CR	CR

## Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
10776-31	C-2/310136-31	Solid	10/28/03	10/24/03 09:03	
10776-32	C-9/310136-32	Solid	10/28/03	10/24/03 09:10	
10776-33	C-10/310136-33	Solid	10/28/03	10/24/03 09:15	
10776-34	C-11/310136-34	Solid	10/28/03	10/24/03 09:20	
10776-35	C-13/310136-35	Solid	10/28/03	10/24/03 09:28	

		Lab Sample IDs				
Parameter	Units	10776-31	10776-32	10776-33	10776-34	10776-35

## Chloride (9251)

Chloride	mg/kg dw	11000	820	3000	2600	8900
Percent Solids		95	95	85	97	95
Dilution Factor		500	50	50	50	500
Prep Date		10/30/03	10/30/03	10/30/03	10/30/03	10/30/03
Analysis Date		10/30/03	10/30/03	10/30/03	10/30/03	10/30/03
Batch ID		CKS078S	CKS078S	CKS078S	CKS078S	CKS078S
Prep Method		SOP 885	SOP 885	SOP 885	SOP 885	SOP 885
Analyst		CR	CR	CR	CR	CR



Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
10776-36	Method Blank	Solid	10/28/03		
10776-37	Lab Control Standard % Recovery	Solid	10/28/03		
10776-38	Matrix Spike % Recovery	Solid	10/28/03		
10776-39	Matrix Spike Duplicate % Recovery	Solid	10/28/03		
10776-40	Method Blank	Solid	10/28/03		

Lab Sample IDs

Parameter	Units	10776-36	10776-37	10776-38	10776-39	10776-40
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Chloride (9251)

Chloride	mg/kg dw	<100	100 %	94 %	94 %	<100
Dilution Factor		50				50
Prep Date		10/30/03				10/30/03
Analysis Date		10/30/03				10/30/03
Batch ID		CKS077S	CKS077S	CKS077S	CKS077S	CKS078S
Prep Method		SOP 885				SOP 885
Analyst		CR				CR

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
10776-41	Lab Control Standard % Recovery	Solid	10/28/03		
10776-42	Matrix Spike % Recovery	Solid	10/28/03		
10776-43	Matrix Spike Duplicate % Recovery	Solid	10/28/03		

Lab Sample IDs

Parameter	Units	10776-41	10776-42	10776-43
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Chloride (9251)

Chloride	%	100 %	96 %	97 %
Batch ID		CKS078S	CKS078S	CKS078S

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

# STL Pensacola

## PROJECT SAMPLE INSPECTION FORM

SEVERN  
TRENT  
STL

Lab Order #: C310776

Date Received: 10/28/03

- |  |   |
|--|---|
| <p>1. Was there a Chain of Custody? <u>Yes</u> No*</p> <p>2. Was Chain of Custody properly filled out and relinquished? <u>Yes</u> No*</p> <p>3. Were all samples properly labeled and identified? <u>Yes</u> No*</p> <p>4. Were samples received cold? <u>Yes</u> No* N/A<br/>(Criteria: 2° - 6°C: STL-SOP 1055)</p> <p>5. Did samples require splitting or compositing*? Yes* <u>No</u></p> <p>6. Were samples received in proper containers for analysis requested? <u>Yes</u> No*</p> <p>7. Were all sample containers received intact? <u>Yes</u> No*</p> | <p>8. Were samples checked for preservative? (Check pH of all H<sub>2</sub>O requiring preservative (STL-PN SOP 917) except VOA vials that require zero headspace)* Yes No* <u>N/A</u></p> <p>9. Is there sufficient volume for analysis requested? <u>Yes</u> No* N/A (Can)</p> <p>10. Were samples received within Holding Time? (REFER TO STL-SOP 1040) <u>Yes</u> No*</p> <p>11. Is Headspace visible &gt; 1/4" in diameter in VOA vials?* Yes* No <u>N/A</u></p> <p>12. Were Trip Blanks Received? Yes No <u>N/A</u></p> <p>13. If sent, were matrix spike bottles returned? Yes No* <u>N/A</u></p> <p>14. If sent, were T-Handles returned? Yes No* <u>N/A</u></p> <p>15. If any issues, how was PM notified? PSIF <input type="checkbox"/> Verbal <input type="checkbox"/></p> |
|--|---|

Airbill Number(s): 12878168 D1 4340 0046

Shipped By UPS FedX HD BUS ABX  
(HD - Hand Delivery)

Cooler Numbers & Temp(s) (°C): Client 4°C OK

(IE. 340L-4°C-CCK8 -- LIST THERMOMETER NUMBER FOR VERIFICATION)

### Out of Control Events and Inspection Comments (list sample IDs/Tests where appropriate):

- 1-3. COC/Sample ID/COC discrepancy: \_\_\_\_\_
4. Insufficient Ice ☐ Delay in delivery ☐ Other ☐ \_\_\_\_\_
5. Samples were Split ☐ Composited ☐ Requested by: Client ☐ PM ☐ Other: \_\_\_\_\_
6. Improper Containers (ID/Size/desc): \_\_\_\_\_
7. Broken bottles/Test: \_\_\_\_\_
8. Incorrect pH: \_\_\_\_\_
9. Test/Matrix/Volume: \_\_\_\_\_
10. Out of Holding Time/Test: \_\_\_\_\_
11. VOA headspace > 1/4"  
(list ~ size) \_\_\_\_\_
- List additional comments by above number: \_\_\_\_\_

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: MHS Date: 10/28/03

Logged By: LLK Date: 28-OCT-03

- \* Note all Out-of-Control and/or questionable events on Comment Section of this form. For holding times, the analytical department will flag immediate hold time samples (pH, Dissolved O<sub>2</sub>, Residual CL) as out of hold time, therefore, these samples will not be documented on this PSIF.
- \* All volatile samples requested to be split or composited must be done in the Volatile Lab. Document: "Volatile sample values may be compromised due to sample splitting (compositing)"
- + All pH results for North Carolina, New York, and other requested samples are to be recorded on the pH log provided (STL-SOP 938).
- \* According to EPA, 1/4" of headspace is acceptable in 40 ml vials requiring volatile analysis.

## Organic Data Qualifiers for Final Report

B	The analyte was detected in the method blank and in the client's sample.
D	The result was obtained from a dilution.
E	The result exceeds the calibration range.
J	Estimated value because the analyte concentration is less than the reporting limit.
M	A matrix effect was present.
N	Presumptive evidence of a compound. The compound was identified qualitatively or as a Tentatively Identified Compound.
N/C	Not Calculable. Either the sample spiked was > 4X spike concentration, or the compound was diluted out, or the results of sample duplicate analysis were <RL.
P	Second-column or detector confirmation exceeded method criteria. Appropriate value is reported and data is flagged/qualified as instructed by method/regulation.
U or < or ND	The analyte was not detected.
*	The result is not within control limit(s).

## Inorganic Data Qualifiers for Final Report

B	The analyte was detected in the method blank and in the client's sample.
E	The reported value is estimated because of the presence of interference.
J	Estimated value because the analyte concentration is less than the reporting limit.
N	The spiked sample recovery is not within control limits.
N/C	Not Calculable. Either the sample spiked was > 4X spike concentration, or the compound was diluted out, or the results of sample duplicate analysis were <RL.
U or < or ND	The analyte was not detected.
*	Duplicate analysis not within control limits
M	The duplicate injection precision was not met.
S	The reported value was determined by the Method of Standard Addition (MSA).
W	Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance and post spike recovery is greater than or equal to 40%, the sample is flagged with a "W" and no further action is required.
+	The Standard Additions Correlation Coefficient is <0.995.

It is permissible to submit an Out-of-Control Events/Corrective Action form and/or Case Narrative in lieu of using above qualifiers.

When the laboratory receives a sample that does not meet EPA requirements for sample collection, preservation or holding time, the laboratory is required to reject the samples. The client must be notified and asked whether the lab should proceed with analysis. Data from any samples that do not meet sample acceptance criteria (collection, preservation and holding time), must be flagged, or noted on a corrective action form or case narrative, or addressed on the Project Sample Inspection Form (PSIF) in an unambiguous manner clearly defining the nature and substance of the variation. NPDES samples from North Carolina that do not meet EPA requirements for sample collection, preservation or holding time are non-reportable for NPDES compliance monitoring.

### Abbreviations

ND	Not Detected at or above the STL Pensacola reporting limit (RL)
NS	Not Submitted
NA	Not Applicable
MDL	STL Pensacola Method Detection Limit
RL	STL Pensacola Reporting Limit
NoMS	Not enough sample provided to prepare and/or analyze a method-required matrix spike (MS) and/or duplicate (MSD)

### Florida Projects Inorganic/Organic

Refer to FL DEP 62-160; Table 4 Data Qualifier Codes. FL DEP Rule 62-160, Table 1 lists the Florida sites which require data qualifiers.

### Arizona DEQ Projects

Any qualified data submitted to Arizona DEQ (ADEQ) after January 1, 2001 must be designated using the Arizona Data Qualifiers as developed by the Arizona ELAC technical subcommittee. Refer to the ADEQ qualifier list.

### Severn Trent Laboratories Inc.

STL Pensacola • 3355 McLemore Dr • Pensacola, FL 32514  
Tel 850 474 1001 Fax 850 484 5315 • [www.stl-inc.com](http://www.stl-inc.com)



## ***STL PENSACOLA Certifications, Memberships & Affiliations***

**Alabama** Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL)

**Arizona** Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater)

**Arkansas** Department of Pollution Control and Ecology, (88-0689) (Environmental)

**California** Department of Health Services, **ELAP** Laboratory ID No. I-2510 (Hazardous Waste and Wastewater)

**Connecticut** Department of Health Services, Connecticut Lab Approval No. PH-0697 (D W, H W and Wastewater)

**Florida** DOH, **NELAP** Laboratory ID No. E81010 (Drinking Water, Hazardous Waste and Wastewater)

**Florida** DEP/DOH CompQAP # 980156

**Illinois** Environmental Laboratory Accreditation Program (ELAP), **NELAP** Laboratory ID No. 200041 (Wastewater and Hazardous Waste)

**Iowa** Department of Natural Resources, Laboratory ID No. 367 (WW & UST)

**Kansas** Department of Health & Environment, **NELAP** Laboratory ID No. E10253 (Wastewater and Hazardous Waste)

**Kentucky** NR&EPC, Laboratory ID No. 90043 (Drinking Water)

**Louisiana** DEQ, LELAP, **NELAP** Laboratory ID No. 02075, Agency Interest ID 30748 (Environmental)

**Maryland** DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida)

**Massachusetts** DEP, Laboratory ID No. M-FL094 ( Wastewater)

**Michigan** Bureau of E&Occh, Laboratory ID No.9912 (Drinking Water by Reciprocity with Florida)

**New Hampshire** DES ELAP, **NELAP** Laboratory ID No. 250502 (Drinking Water & Wastewater)

**New Jersey** DEP&E, **NELAP** Laboratory ID No. FL006 (Wastewater and Hazardous Waster)

**North Carolina** DENR, Laboratory ID No. 314 (Hazardous Waste and Wastewater)

**North Dakota** DH&Consol Labs, Laboratory ID No. R-108 Wastewater and Hazardous Waste by Reciprocity with Florida)

**Oklahoma** Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater)

**Pennsylvania** Department of Environmental Resources, **NELAP** Laboratory ID No. 68-467 (Drinking Water & Wastewater)

**South Carolina** DH&EC, Laboratory ID No. 96026 (Wastewater & Solids/Hazardous Waste by Reciprocity with FL)

**Tennessee** Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water)

**Virginia** Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL)

**West Virginia** DOE, Office of Water Resources, Laboratory ID No. 136 (Haz Waste and Wastewater)

**AIHA** (American Industrial Hygiene Association) Accredited Laboratory, Laboratory ID No. 100704. Participant in AIHA sponsored Laboratory PAT Rounds

**EPA ICR** (Information Collection Rule) Approved Laboratory, Laboratory ID No. ICRFL031

**NFESC** (Naval Facilities Engineering Services Center)

**USACE** (United States Army Corps. of Engineers), MRD

STL Pensacola also has a foreign soil permit to accept soils from locations other than the continental United States. Permit No. S-37599

certlist\condcert.lst revised 10/15/03

Total Pages of Report

19

Network Project Manager: Jacinta Tenorio

Pinnacle Laboratories, Inc.

2709-D Pan American Freeway, NE

Albuquerque, NM 87107

(505) 344-3777 Fax (505) 344-4413

C310776

ANALYSIS REQUEST

Pinnacle Laboratories, Inc. 2709-D Pan American Freeway, NE Albuquerque, NM 87107 (505) 344-3777 Fax (505) 344-4413					C310776																			
SAMPLE ID		DATE	TIME	MATRIX	LAB ID	Metals (8) RCRA	TCLP RCRA (8) Metals	Metals-13 PP List	Metals-TAL (23 Metals)	Dissolved Fe, Mn, Pb (6010)	Chloride 325.2	TOC	Gen Chemistry:	Volatile Organics GC/MS (8260)	BOD	COD	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	PNA (8310)/8270 SIMS	8260 (TCLP 1311) ZHE				NUMBER OF CONTAINERS
T6-3B / 310136-01		10.23	1144	N/A	N/A						X													1
T3-2-1		"-02	1206								X													1
T3-4-1		"-03	1212								X													1
T1W-1-1		"-04	1225								X													1
T1E-1-1		"-05	1228								X													1
NSA-3-1		"06	1345								X													1
NS2-2-1		"07	1357								X													1
T2-3-1		"08	1410								X													1
T1B-3-1		"09	1435								X													1
T4-2B / 310136-10		↓	1549	↓	↓						X													1

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISHED BY:		RELINQUISHED BY:	
PROJECT #:	310136	Total Number of Containers		PENSACOLA - STL-FL		Signature:		Signature:	
PROJ. NAME:	GRAND	Chain of Custody Seals		ESL - OR		Printed Name:		Printed Name:	
QC LEVEL:	STD IV	Received Intact?		ATEL - AZ		Date:		Date:	
QC REQUIRED:	MS MSD BLANK	Received Good Cond./Cold		ATEL - MARION		Company		Company	
TAT:	STANDARD RUSH!!	LAB NUMBER:		ATEL - MELMORE		RECEIVED BY:		RECEIVED BY:	
				EHL		1.		1.	
				GEL		Signature:		Signature:	
				U OF MIAMI		Printed Name:		Printed Name:	
				WCAS		Date:		Date:	
				WOHL		Company		Company	
DUE DATE: 2 weeks + 2 days				COMMENTS:					
RUSH SURCHARGE:									
CLIENT DISCOUNT:									
SPECIAL CERTIFICATION									
REQUIRED: YES NO									

Network Project Manager: Jacinta Tenorio

Pinnacle Laboratories, Inc.  
2709-D Pan American Freeway, NE  
Albuquerque, NM 87107  
(505) 344-3777 Fax (505) 344-4413  
C310776

ANALYSIS REQUEST

Pinnacle Laboratories, Inc. 2709-D Pan American Freeway, NE Albuquerque, NM 87107 (505) 344-3777 Fax (505) 344-4413					C310776																				
SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals (8) RCRA	TCLP RCRA (8) Metals	Metals-13 PP List	Metals-TAL (23 Metals)	Dissolved Fe, Mn, Pb (6010)	TOC	Gen Chemistry:	Volatile Organics GC/MS (8260)	BOD	COD	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	PNA (8310)/8270 SIMS	8260 (TCLP 1311) ZHE	Base/Neutral Acid Compounds GC/MS (625/8270)	Uranium (ICP-MS)	Radium 226+228	Gross Alpha/Beta	TO-14	NUMBER OF CONTAINERS	
PS3-3/310136-11	10-23	1641	NAB																						1
74-2/	-12	1700																							1
75-2/	-13	1713																							1
76-3/	-14	1727																							1
78-2/	-15	1739																							1
PS4-3.5/	-16	1752																							1
PS5-1/	-17	1800																							1
DL1-2/		1820																							1
SS-2/		1833																							1
SI-5/310136-20		1847																							1

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISHED BY:		RELINQUISHED BY:	
PROJECT #:	210136	Total Number of Containers		PENSACOLA - STL-FL		Signature:		Signature:	
PROJ. NAME:	APR-10	Chain of Custody Seals		ESL - OR		Printed Name:		Printed Name:	
QC LEVEL:	STD IV	Received Intact?		ATEL - AZ		Date:		Date:	
QC REQUIRED:	MS MSD BLANK	Received Good Cond./Cold		ATEL - MARION		Company:		Company:	
QC REQUIRED:	MS MSD BLANK	LAB NUMBER:		ATEL - MELMORE		RECEIVED BY:		RECEIVED BY:	
QC REQUIRED:	MS MSD BLANK			EHL		Signature:		Signature:	
QC REQUIRED:	MS MSD BLANK			GEL		Printed Name:		Printed Name:	
QC REQUIRED:	MS MSD BLANK			U OF MIAMI		Date:		Date:	
QC REQUIRED:	MS MSD BLANK			WCAS		Company:		Company:	
QC REQUIRED:	MS MSD BLANK			WOHL					
COMMENTS:									
DUE DATE:									
RUSH SURCHARGE:									
CLIENT DISCOUNT:									
SPECIAL CERTIFICATION									
REQUIRED: YES NO									



Network Project Manager: Jacinta Tenorio

Pinnacle Laboratories, Inc.  
2709-D Pan American Freeway, NE  
Albuquerque, NM 87107  
(505) 344-3777 Fax (505) 344-4413  
C310776

ANALYSIS REQUEST

Pinnacle Laboratories, Inc. 2709-D Pan American Freeway, NE Albuquerque, NM 87107 (505) 344-3777 Fax (505) 344-4413					C310776																				
SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals (8) RCRA	TCLP RCRA (8) Metals	Metals-13 PP List	Metals-TAL (23 Metals)	Dissolved Fe, Mn, Pb (6010)	TOC	Gen Chemistry:	Volatile Organics GC/MS (8260)	BOD	COD	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	PNA (8310)/8270 SIMS	8260 (TCLP 1311) ZHE	Base/Neutral Acid Compounds GC/MS (625/8270)	Uranium (ICP-MS)	Radium 226+228	Gross Alpha/Beta	TO-14	NUMBER OF CONTAINERS	
ST-1W/310136-21	10/23	1855	AAAB																						1
8-5/	10/23	1825								X															1
D1-2B1	10/23	1920								X															1
C-1/	10/24	0830								X															1
C-3	10/24	0833								X															1
C-5	10/24	0836								X															1
C-7	10/24	0842								X															1
C-8	10/24	0847								X															1
C-6	10/24	0854								X															1
C-4/310136-30	10/24	0858								X															1

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISHED BY:		RELINQUISHED BY:	
PROJECT #:	310136	Total Number of Containers		PENSACOLA - STL-FL		Signature:		Signature:	
PROJ. NAME:	ACRATU	Chain of Custody Seals		ESL - OR		Printed Name:		Printed Name:	
QC LEVEL:	STD. IV	Received Intact?		ATEL - AZ		Date:		Date:	
QC REQUIRED:	MS MSD BLANK	Received Good Cond./Cold		ATEL - MARION		Signature:		Signature:	
TAT:	STANDARD RUSH!!	LAB NUMBER:		ATEL - MELMORE		Printed Name:		Printed Name:	
DUE DATE:				EHL		Company:		Company:	
RUSH SURCHARGE:				GEL		Signature:		Signature:	
CLIENT DISCOUNT:				U OF MIAMI		Date:		Date:	
SPECIAL CERTIFICATION				WCAS		Printed Name:		Printed Name:	
REQUIRED: YES NO				WOHL		Company:		Company:	

Network Project Manager: Jacinta Tenorio

Pinnacle Laboratories, Inc.  
2709-D Pan American Freeway, NE  
Albuquerque, NM 87107  
(505) 344-3777 Fax (505) 344-4413

C310776

ANALYSIS REQUEST

Pinnacle Laboratories, Inc. 2709-D Pan American Freeway, NE Albuquerque, NM 87107 (505) 344-3777 Fax (505) 344-4413					C310776																				
SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals (8) RCRA	TCLP RCRA (8) Metals	Metals-13 PP List	Metals-TAL (23 Metals)	Dissolved Fe, Mn, Pb (6010)	TOC	Gen Chemistry:	Volatile Organics GC/MS (8260)	BOD	COD	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	PNA (8310)/8270 SIMS	8260 (TCLP 1311) ZHE	Base/Neutral Acid Compounds GC/MS (625/8270)	Uranium (ICP-MS)	Radium 226+228	Gross Alpha/Beta	TO-14	NUMBER OF CONTAINERS	
C-2 / 310136-31	10.24	0903	NAQ																						1
C-9 / -32		0910																							1
G10 / -33		0915																							1
C-11 / -34		0920																							1
C-13 / -35		0928																							1

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISHED BY:		RELINQUISHED BY:	
PROJECT #:	310136	Total Number of Containers		PENSACOLA - STL-FL		Signature:		Signature:	
PROJ. NAME:		Chain of Custody Seals		ESL - OR		Printed Name:		Printed Name:	
QC LEVEL:	IV	Received Intact?		ATEL - AZ		Date:		Date:	
QC REQUIRED:	MS MSD BLANK	Received Good Cond./Cold		ATEL - MARION		Printed Name:		Printed Name:	
TAT:	STANDARD RUSH!!	LAB NUMBER:		ATEL - MELMORE		Company:		Company:	
DUE DATE:				EHL		RECEIVED BY:		RECEIVED BY:	
RUSH SURCHARGE:				GEL		Signature:		Signature:	
CLIENT DISCOUNT:				U OF MIAMI		Printed Name:		Printed Name:	
SPECIAL CERTIFICATION				WCAS		Date:		Date:	
REQUIRED: YES NO				WOHL		Company:		Company:	

# Pinnacle Laboratories Inc.

## CHAIN OF CUSTODY

DATE: 10/23/03 PAGE: 1 OF 1

PLI Accession #: 310136

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

**PROJECT MANAGER:** Joe Tracy  
**COMPANY:** Intern  
**ADDRESS:** 6501 Americas Parkway NE Suite 820  
One Bank Square Albuquerque NM 87110  
**PHONE:** 505 246-1600  
**FAX:** 505 246-2600  
**BILL TO:** OCD Attn: Martine Kieling  
**COMPANY:** NMOCB  
**ADDRESS:** 1220 South St Francis Drive  
Santa Fe NM 87505

### ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1) TRPH	(MOD. 8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTX)/8015 (Gasoline) MTBE	8021 (BTX) DMTE DTMB DPCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB DBCP	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry:	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:	NUMBER OF CONTAINERS
T6-3B	10/23/03	1144	Soil	01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
T3-2		1206		02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
T3-4		1212		03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
T1W-1		1225		04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
T1E-1		1248		05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
RS1-3		1345		06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
RS2-2		1357		07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
T2-3		1410		08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
T1/3-3		1435		09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
T4-2B		1509	✓	10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4

WEEKEND ANALYSES MAY RESULT IN AN ADDITIONAL SURCHARGE - PLEASE INQUIRE.

<b>PROJECT INFORMATION</b> PROJ. NO.: Arabo PROJ. NAME: Arabo P.O. NO.: SHIPPED VIA: Deliver		<b>PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS</b> (RUSH) <input type="checkbox"/> 24hr* <input type="checkbox"/> 48hr* <input type="checkbox"/> 72hr* <input type="checkbox"/> 1 WEEK (NORMAL) <input checked="" type="checkbox"/> *NOT AVAILABLE ON ALL ANALYSES CERTIFICATION REQUIRED <input type="checkbox"/> NM <input type="checkbox"/> SDWA <input type="checkbox"/> AZ <input type="checkbox"/> OTHER METHANOL PRESERVATION <input checked="" type="checkbox"/> METALS <input type="checkbox"/> TOTAL <input type="checkbox"/> DISSOLVED COMMENTS:		<b>RELINQUISHED BY:</b> 1. Signature: [Signature] Time: 1550 Printed Name: Kenneth Clark Date: 10/24/03 Company: See Reverse side (Force Majeure)	<b>RELINQUISHED BY:</b> 2. Signature: [Signature] Time: Printed Name: Date: Company:
<b>SAMPLE RECEIPT</b> NO CONTAINERS: 40 CUSTODY SEALS: Y/N (NA) RECEIVED INTACT: YES BLUE ICE/BOX: 5.3c		<b>RECEIVED BY:</b> 1. Signature: [Signature] Time: Printed Name: Date: Company:		<b>RECEIVED BY:</b> 2. Signature: [Signature] Time: Printed Name: Date: Company:	



Pinnacle Laboratories Inc.

# CHAIN OF CUSTODY

PLI Accession #: 310136

DATE: 10/23/03 PAGE: 2 OF 4

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: Joe Tracy

COMPANY: Intera

ADDRESS: 6501 Americas Parkway NE Suite 820  
One Park Square Albuquerque NM 87110

PHONE: 505 246-1600

FAX: 505 246-2600

BILL TO: OCD Attn: Martine Kieling

COMPANY: NMOCD

ADDRESS: 1220 South St Francis Drive  
Santa Fe NM 87505

## ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) □ MTBE □ PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB □/DBCP □	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics □ PBMS	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry:	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:	NUMBER OF CONTAINERS
R53-3	10/23/03	1641	Soil	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
T4-2		1700		12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
T5-2		1713		13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
T6-3		1727		14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
S6-2		1739		15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
R54-3.5		1752		16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
R55-1		1800		17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
DL1-2		1820		18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
S9-2		1833		19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
S1-5		1843	✓	20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4

WEEKEND ANALYSES MAY RESULT IN AN ADDITIONAL SURCHARGE - PLEASE INQUIRE.

PROJECT INFORMATION		PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS		RELINQUISHED BY: 1.		RELINQUISHED BY: 2.	
PROJ. NO.:		(RUSH) □ 24hr □ 48hr □ 72hr □ 1 WEEK	(NORMAL) <input checked="" type="checkbox"/>	Signature: <i>Karl D</i>	Time: 1550	Signature:	Time:
PROJ. NAME: Arah		CERTIFICATION REQUIRED □ NM □ SDWA □ AZ □ OTHER		Printed Name: <i>Karl D Clark</i>	Date: 10/24/03	Printed Name:	Date:
P.O. NO.:		METHANOL PRESERVATION <input checked="" type="checkbox"/>	METALS □ TOTAL □ DISSOLVED	Company:		Company:	
SHIPPED VIA: Delivered		COMMENTS:		RECEIVED BY: 1.		RECEIVED BY: 2.	
SAMPLE RECEIPT				Signature: <i>Manuel Juino</i>	Time: 1600	Signature:	Time:
NO CONTAINERS	40			Printed Name: <i>Manuel Juino</i>	Date: 10/24/03	Printed Name:	Date:
CUSTODY SEALS	Y/N (NA)			Company: <i>Pinnacle Laboratories Inc.</i>		Company:	
RECEIVED INTACT	YES						
BLUE ICE/ICE	YES						

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

ANALYSIS REQUEST

PROJECT MANAGER: Joe Tracy

COMPANY: Intera

ADDRESS: 6501 Americas Parkway NE Suite 820  
One Mile Square Albuquerque NM 87110

PHONE: 505 246-1600

FAX: 505 246-2600

BILL TO: OCD Attn: Markine Kieding

COMPANY: NMCCD

ADDRESS: 1220 South St Francis Drive  
Santa Fe NM 87505

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) MTBE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB □/DBCP □	Chloride 325.2	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics □PBMS	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry:	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:	NUMBER OF CONTAINERS
S1-1N	10/23/03	1855	Soil	21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
S8-.5	10/23/03	1825		22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
DL1-2B	10/23/03	1920		23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
C-1	10/24/03	0830		24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
C-3		0833		25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
C-5		0836		26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
C-7		0842		27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
C-8		0847		28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
C-6		0854		29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
C-4		0858		30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1

WEEKEND ANALYSES MAY RESULT IN AN ADDITIONAL SURCHARGE - PLEASE INQUIRE.

PROJECT INFORMATION		PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS	
PROJ. NO.:		(RUSH) □ 24hr □ 48hr □ 72hr □ 1 WEEK	(NORMAL) <input checked="" type="checkbox"/>
PROJ. NAME: Aache		CERTIFICATION REQUIRED □ NM □ SDWA □ AZ □ OTHER	
P.O. NO.:		METHANOL PRESERVATION <input checked="" type="checkbox"/>	METALS □ TOTAL □ DISSOLVED
SHIPPED VIA: Delivered			
SAMPLE RECEIPT			
NO CONTAINERS	19		
CUSTODY SEALS	Y/N/NA		
RECEIVED INTACT	YES		
BLUE ICE	5.3c	6.4c	

RELINQUISHED BY: 1.		RELINQUISHED BY: 2.	
Signature: <i>Konrad Clark</i>	Time: 1550	Signature:	Time:
Printed Name: Konrad Clark	Date: 10/24/03	Printed Name:	Date:
Company:	See Reverse side (Force Majeure)	Company:	
RECEIVED BY: 1.		RECEIVED BY: (LAB) 2.	
Signature:	Time:	Signature: <i>Marcine Kieding</i>	Time: 1600
Printed Name:	Date:	Printed Name: <i>Marcine Kieding</i>	Date: 10/24/03
Company:		Company: Pinnacle Laboratories Inc.	

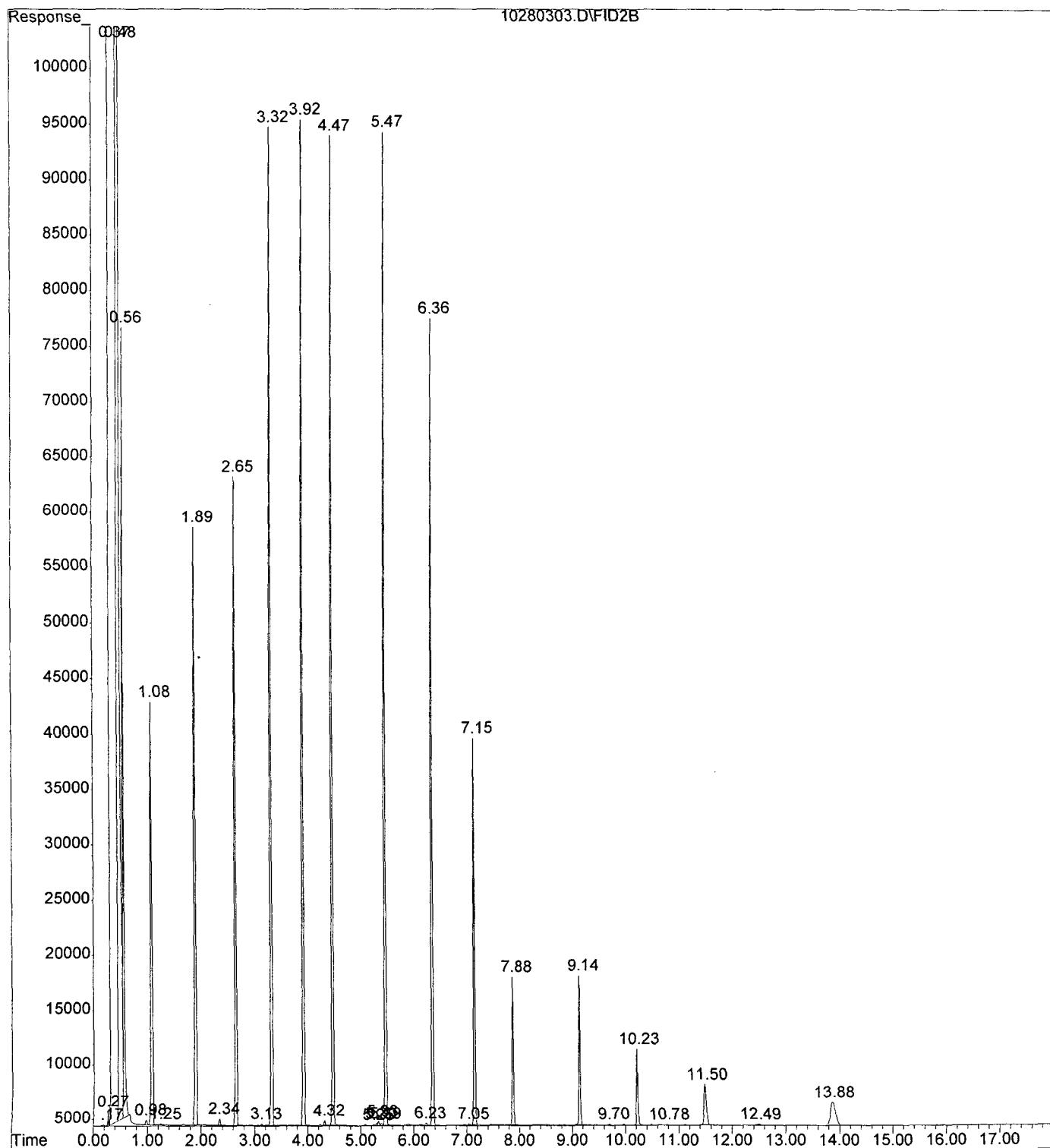
PAGE 4 OF 4

PARAMETERS

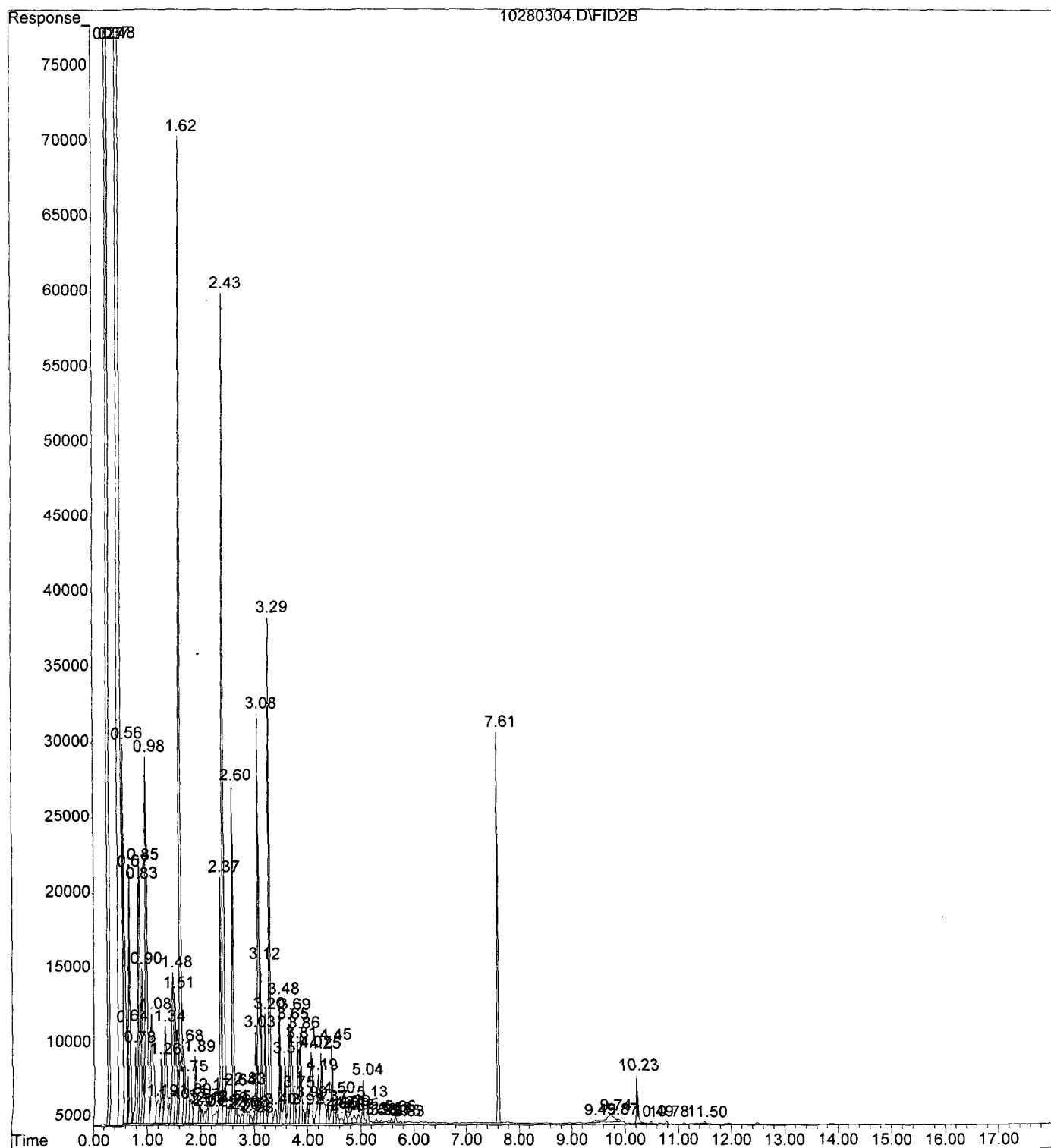
SAMPLES RELINQUISHED BY (SIGNATURE) <i>Kudal</i>	DATE AND TIME 10/24/03 1550	SAMPLES RELINQUISHED BY (SIGNATURE)	DATE AND TIME	REMARKS ON SAMPLE RECEIPT <input type="checkbox"/> Bottle Intact <input type="checkbox"/> Custody Seals <input type="checkbox"/> Preserved <input type="checkbox"/> Seals Intact <input type="checkbox"/> Chilled <input type="checkbox"/> See Remarks
SAMPLES RECEIVED BY (SIGNATURE)	DATE AND TIME	SAMPLES RECEIVED BY (SIGNATURE) <i>Francine Trano</i>	DATE AND TIME 10/24/03 1600	REMARKS ON SAMPLE RECEIPT <input type="checkbox"/> Bottle Intact <input type="checkbox"/> Custody Seals <input type="checkbox"/> Preserved <input type="checkbox"/> Seals Intact <input type="checkbox"/> Chilled <input type="checkbox"/> See Remarks

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File : C:\HPCHEM\2\DATA\102803F\10280303.D  
Operator : VPH  
Acquired : 28 Oct 2003 12:37 using AcqMethod TPH1027.M  
Instrument : FID-1  
Sample Name: RT STD  
Misc Info : GC4-118-01  
Vial Number: 2

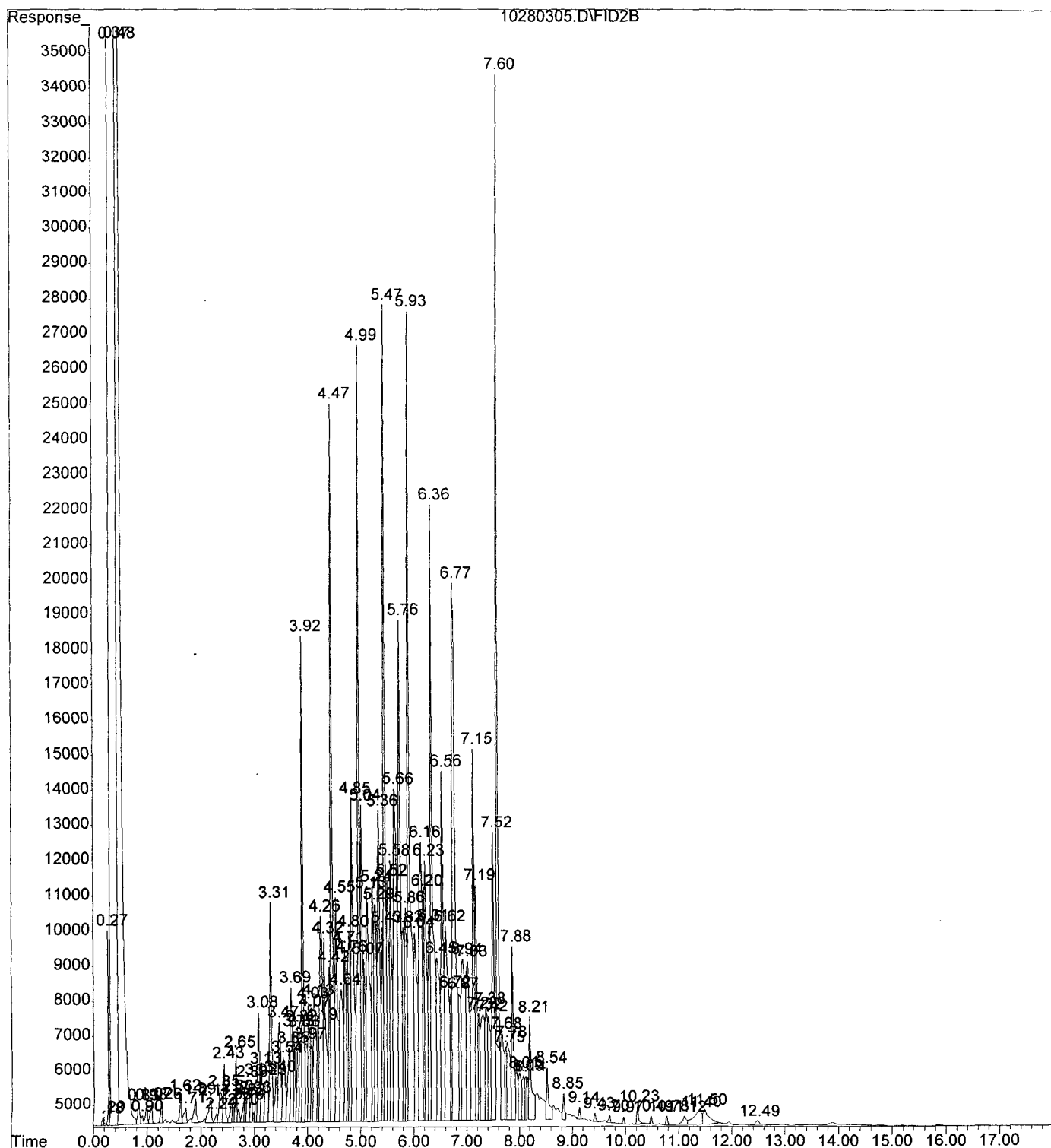


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Operator : VPH  
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Instrument : FID-1  
Sample Name: GRO CCV-200PPB  
Misc Info : GC4-121-10  
Vial Number: 3

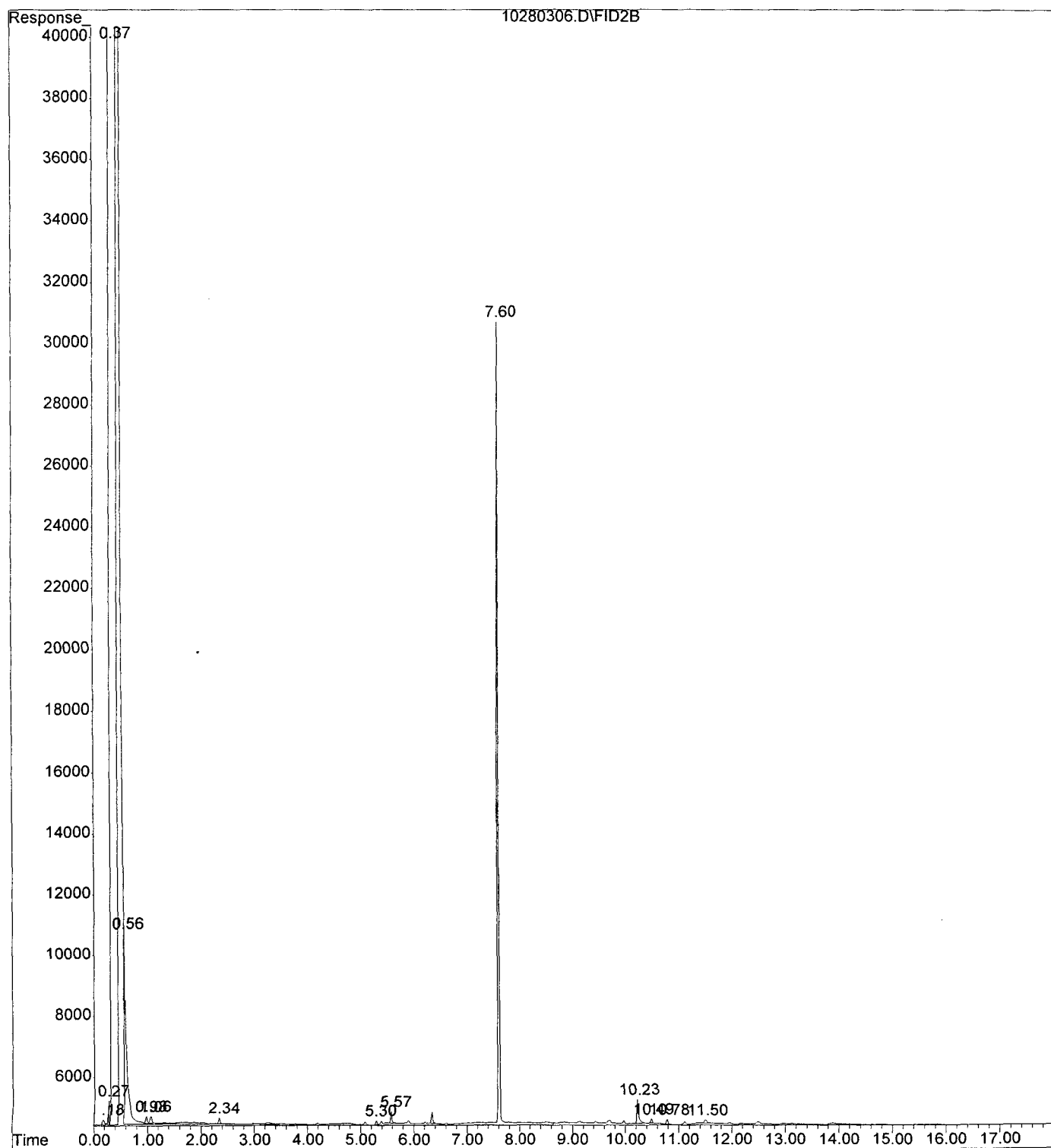




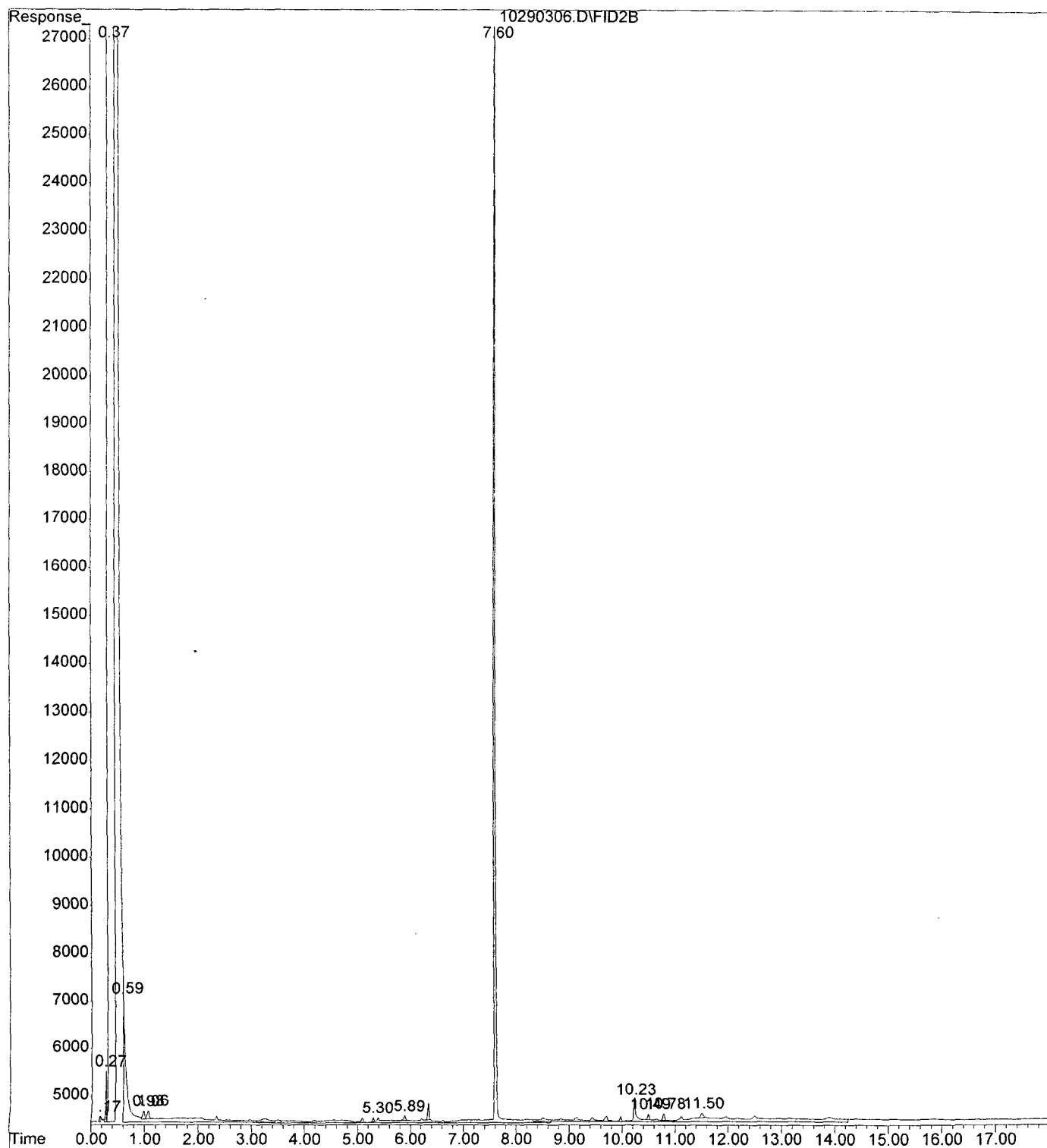
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Operator : VPH  
Acquired : 28 Oct 2003 13:33 using AcqMethod TPH1027.M  
Instrument : FID-1  
Sample Name: DRO CCV-200PPB  
Misc Info : GC4-121-1-09  
Vial Number: 4



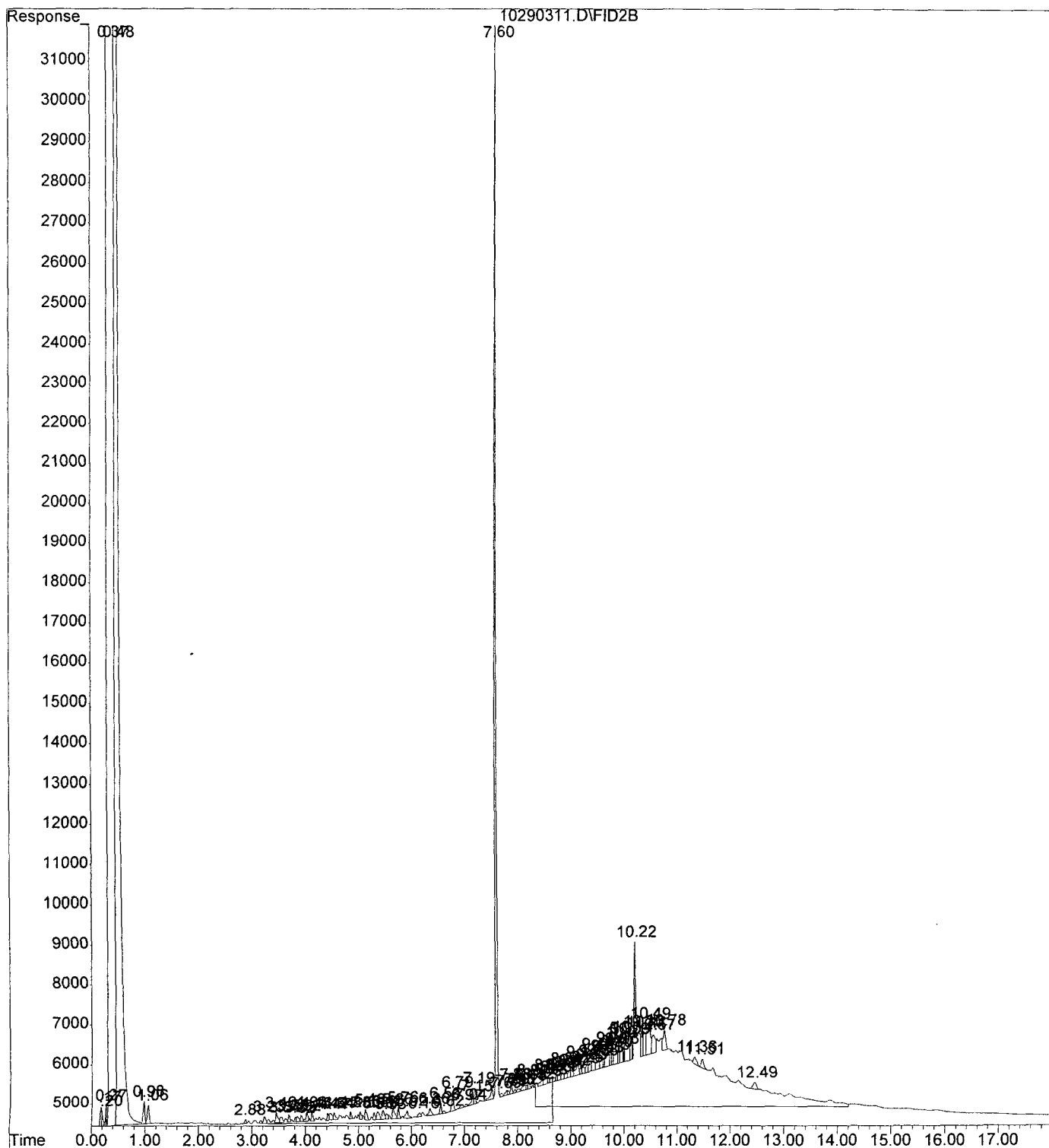
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Acquired : 28 Oct 2003 14:01 using AcqMethod TPH1027.M  
Instrument : FID-1  
Sample Name: SRB 1027  
Misc Info : 10G/10ML 10/27  
Vial Number: 5



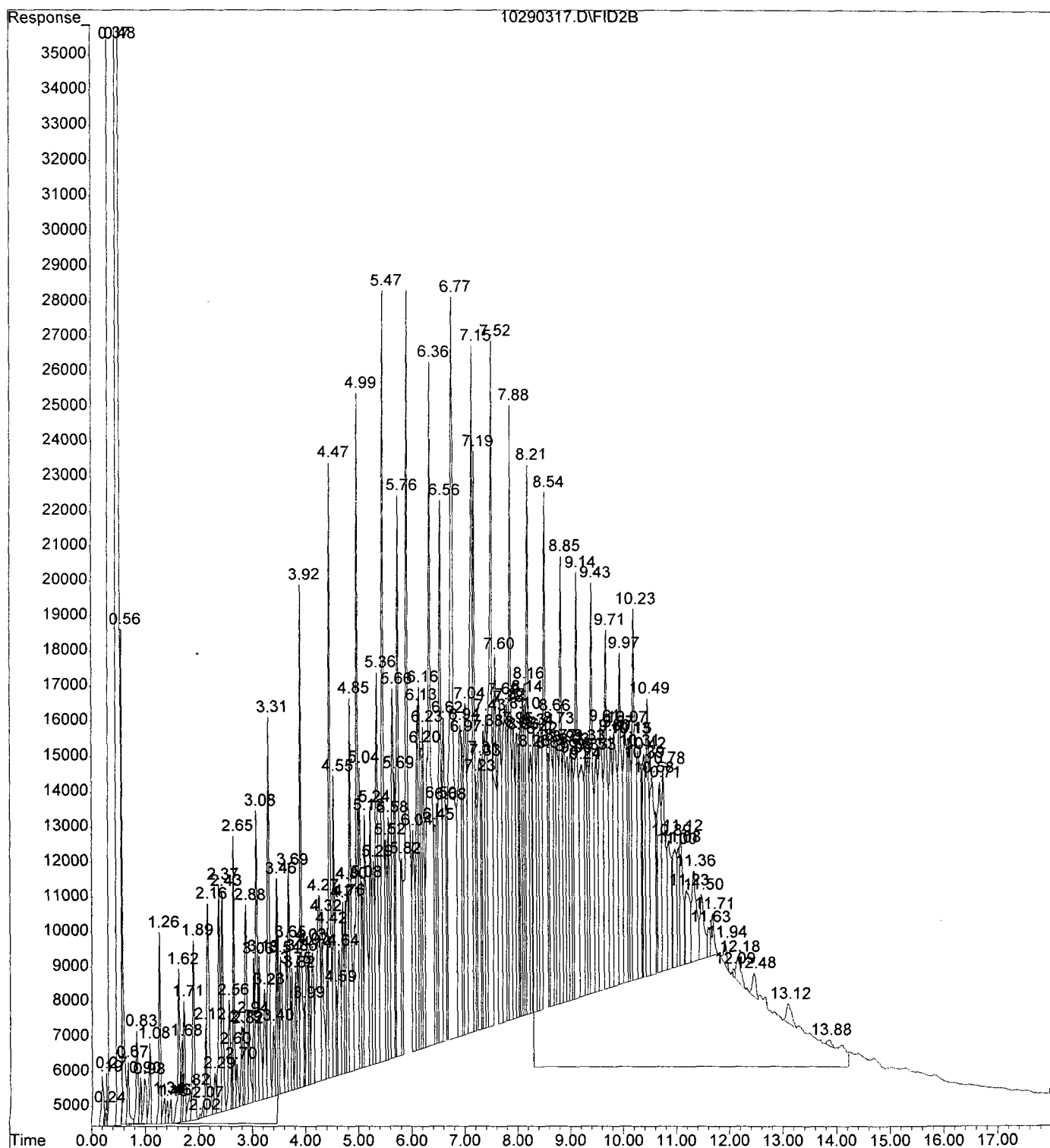
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Operator : VPH  
Acquired : 29 Oct 2003 11:36 using AcqMethod TPH1027.M  
Instrument : FID-1  
Sample Name: SRB 1028  
Misc Info : 10G/10ML 10/28  
Vial Number: 5



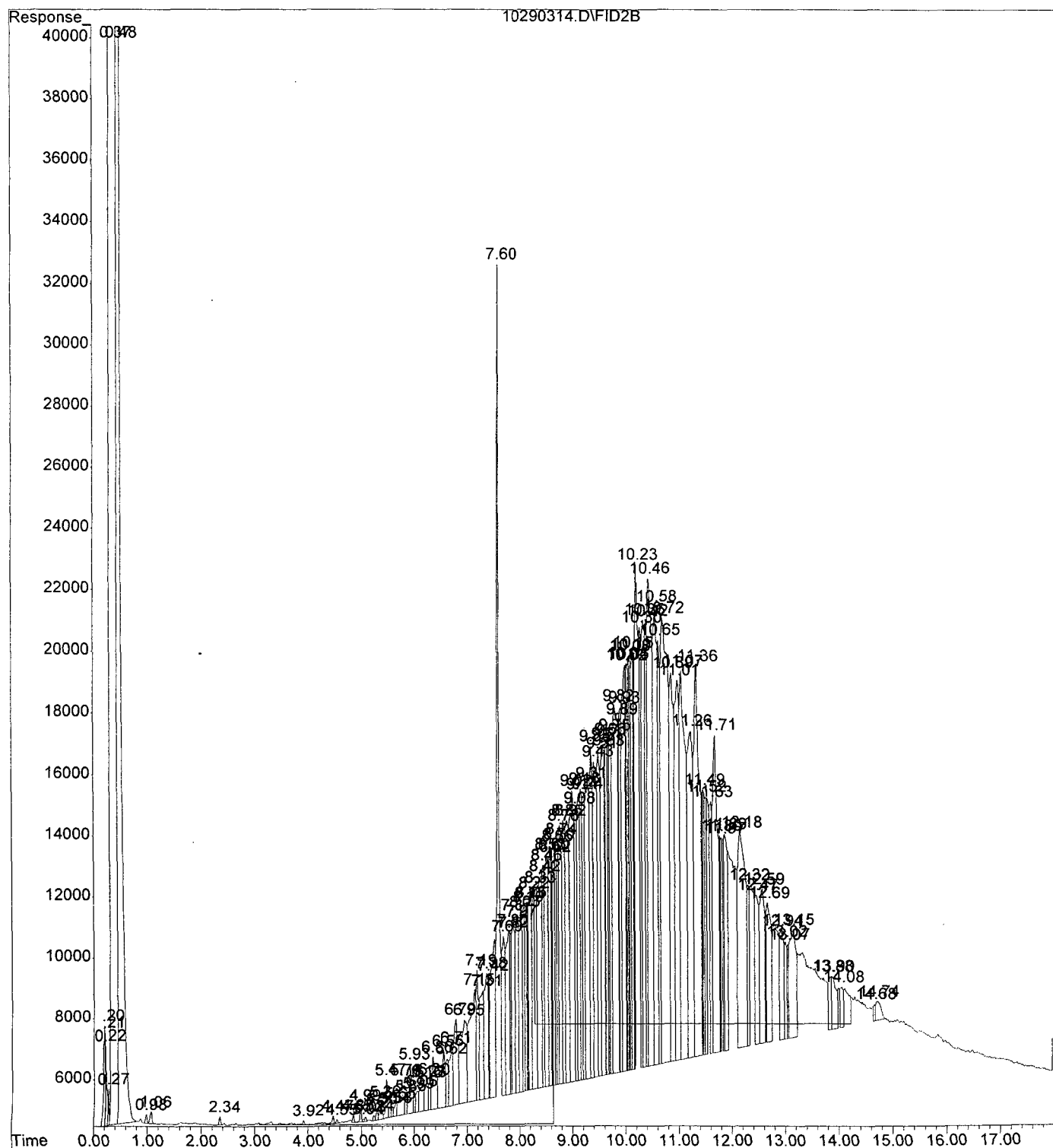
File : C:\HPCHEM\2\DATA\102903F\10290311.D  
Operator : VPH  
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Instrument : FID-1  
Sample Name: 310136-01 RR  
Misc Info : 10G/10ML 10/27  
Vial Number: 10



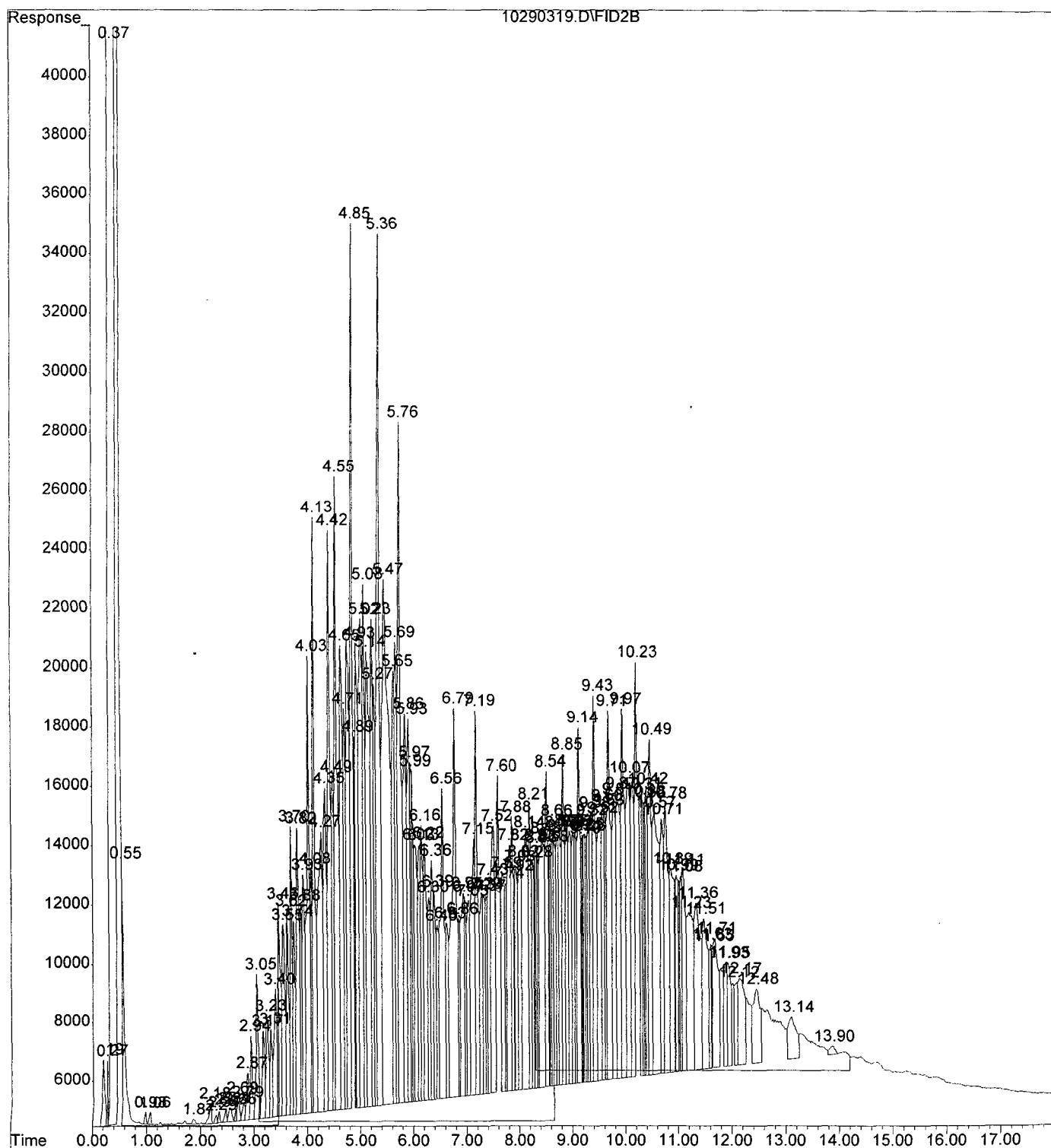
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Operator : VPH  
Acquired : 29 Oct 2003 16:45 using AcqMethod TPH1027.M  
Instrument : FID-1  
Sample Name: 310136-02 RR 5X  
Misc Info : 10G/10ML 10/27 200UL/1ML  
Vial Number: 15



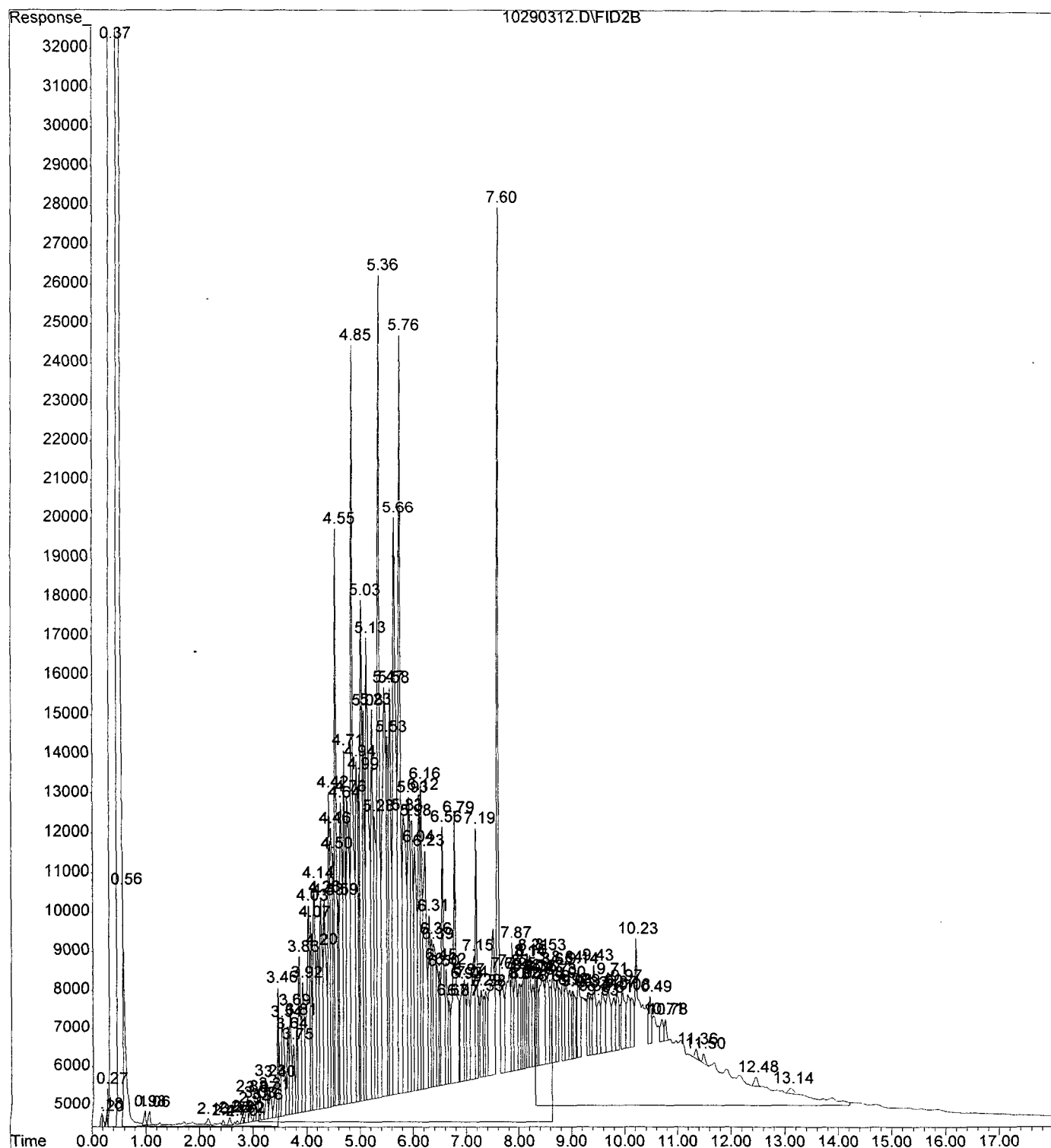
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Operator : VPH  
Acquired : 29 Oct 2003 15:21 using AcqMethod TPH1027.M  
Instrument : FID-1  
Sample Name: 310136-03 RR  
Misc Info : 10G/10ML 10/27  
Vial Number: 13



File : C:\HPCHEM\2\DATA\102903F\10290319.D  
Operator : VPH  
Acquired : 29 Oct 2003 17:42 using AcqMethod TPH1027.M  
Instrument : FID-1  
Sample Name: 310136-04 RR 5X  
Misc Info : 10G/10ML 10/27 200UL/1ML  
Vial Number: 17

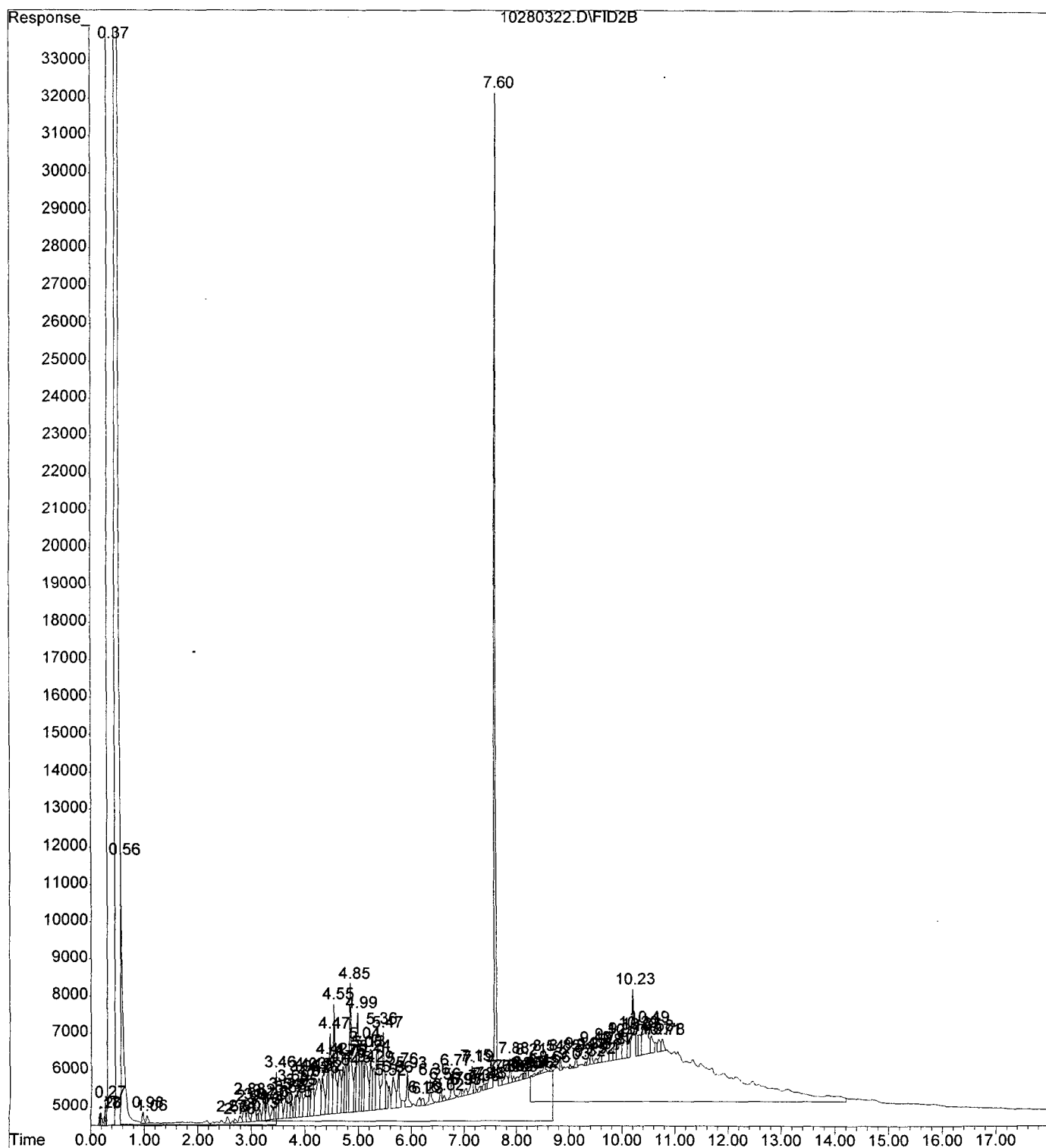


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Acquired : 29 Oct 2003 14:25 using AcqMethod TPH1027.M  
Instrument : FID-1  
Sample Name: 310136-05 RR  
Misc Info : 10G/10ML 10/27  
Vial Number: 11

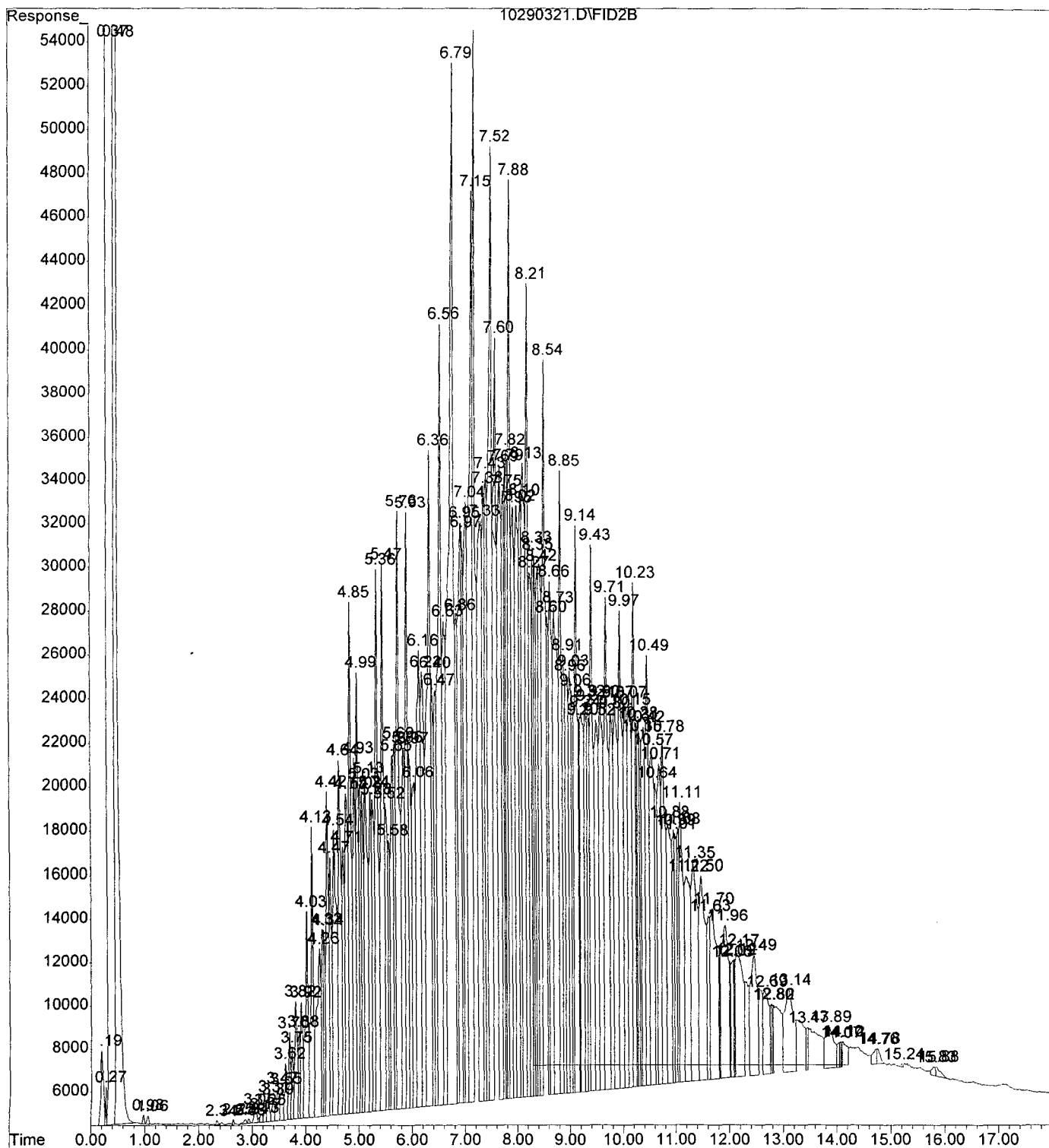




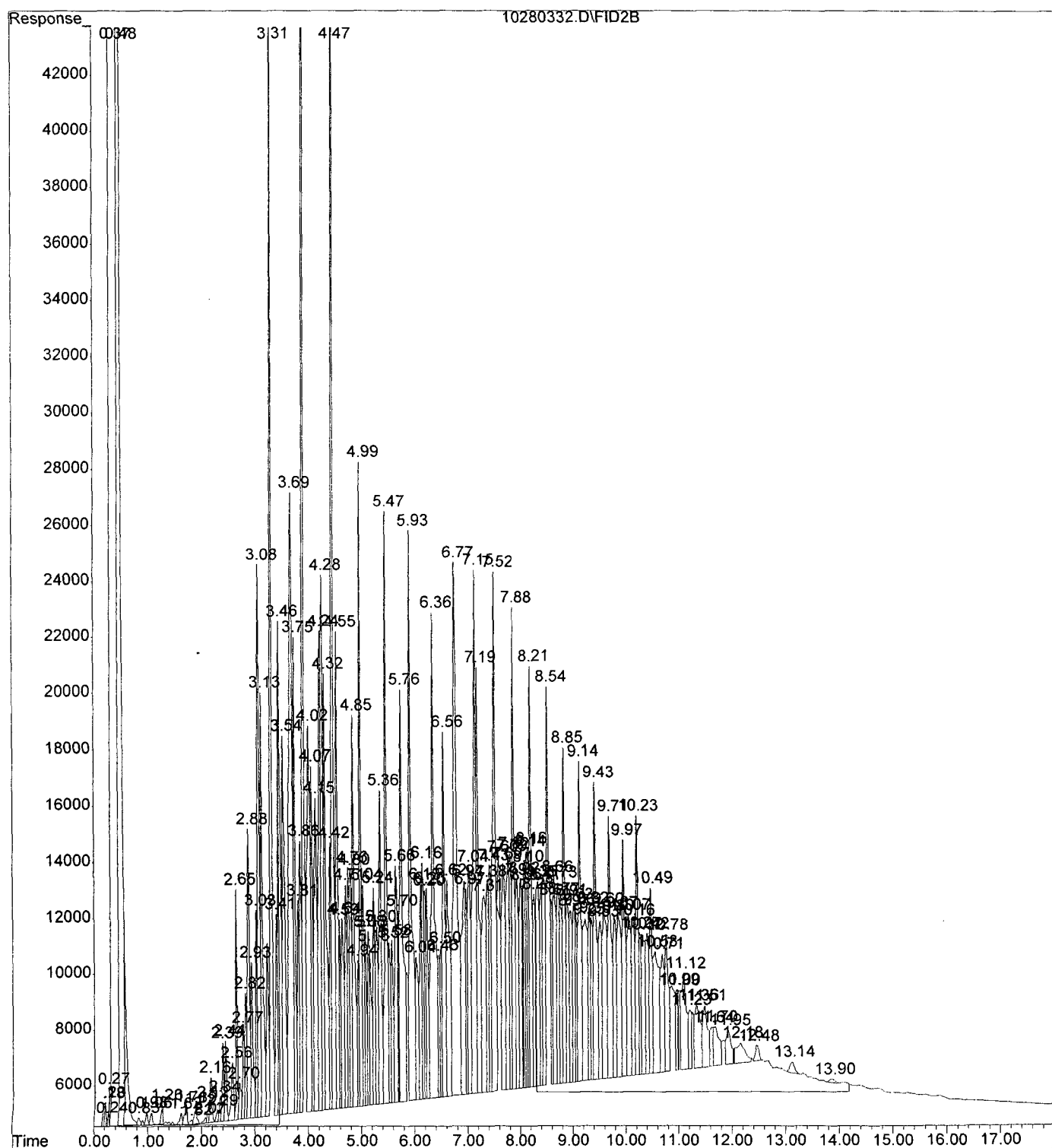
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Instrument : FID-1  
Sample Name: 310136-06  
Misc Info : 10G/10ML 10/27  
Vial Number: 21



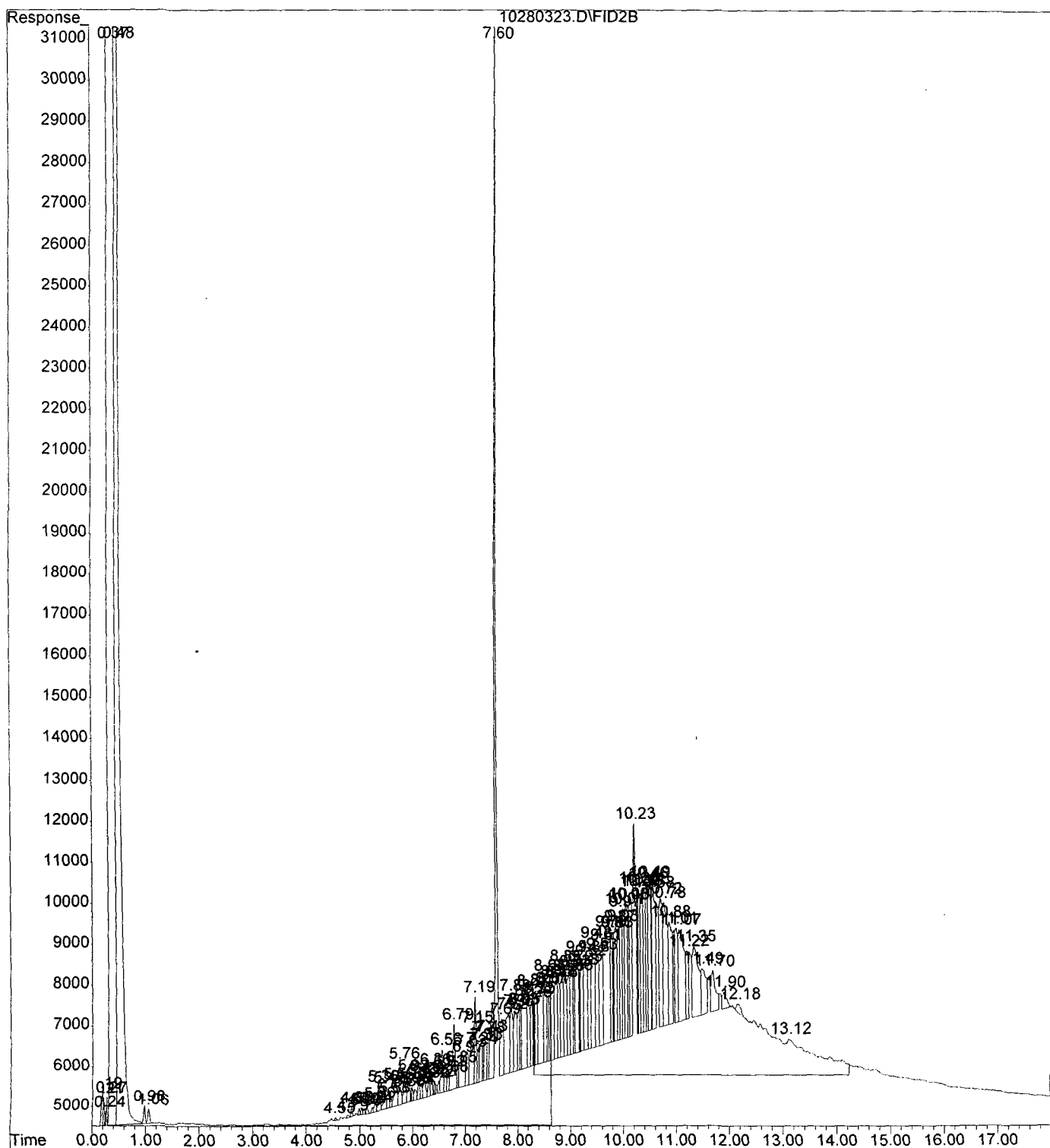
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Acquired : 29 Oct 2003 18:38 using AcqMethod TPH1027.M  
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Sample Name: 310136-07 RR 2X  
Misc Info : 10G/10ML 10/27 500UL/1ML  
Vial Number: 18



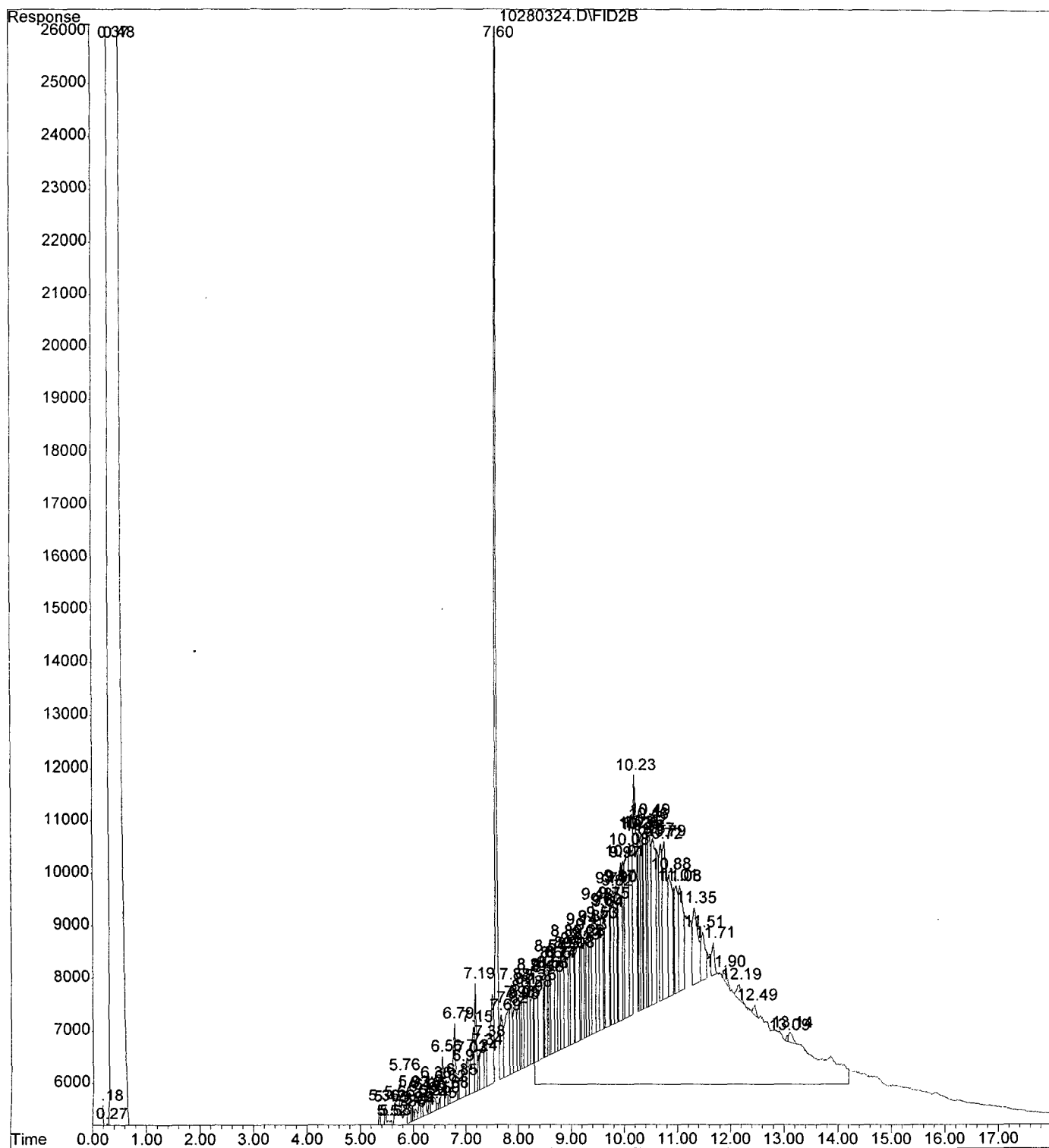
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Instrument : FID-1  
Sample Name: 310136-08 10X  
Misc Info : 10G/10ML 10/27 100UL/1ML  
Vial Number: 31



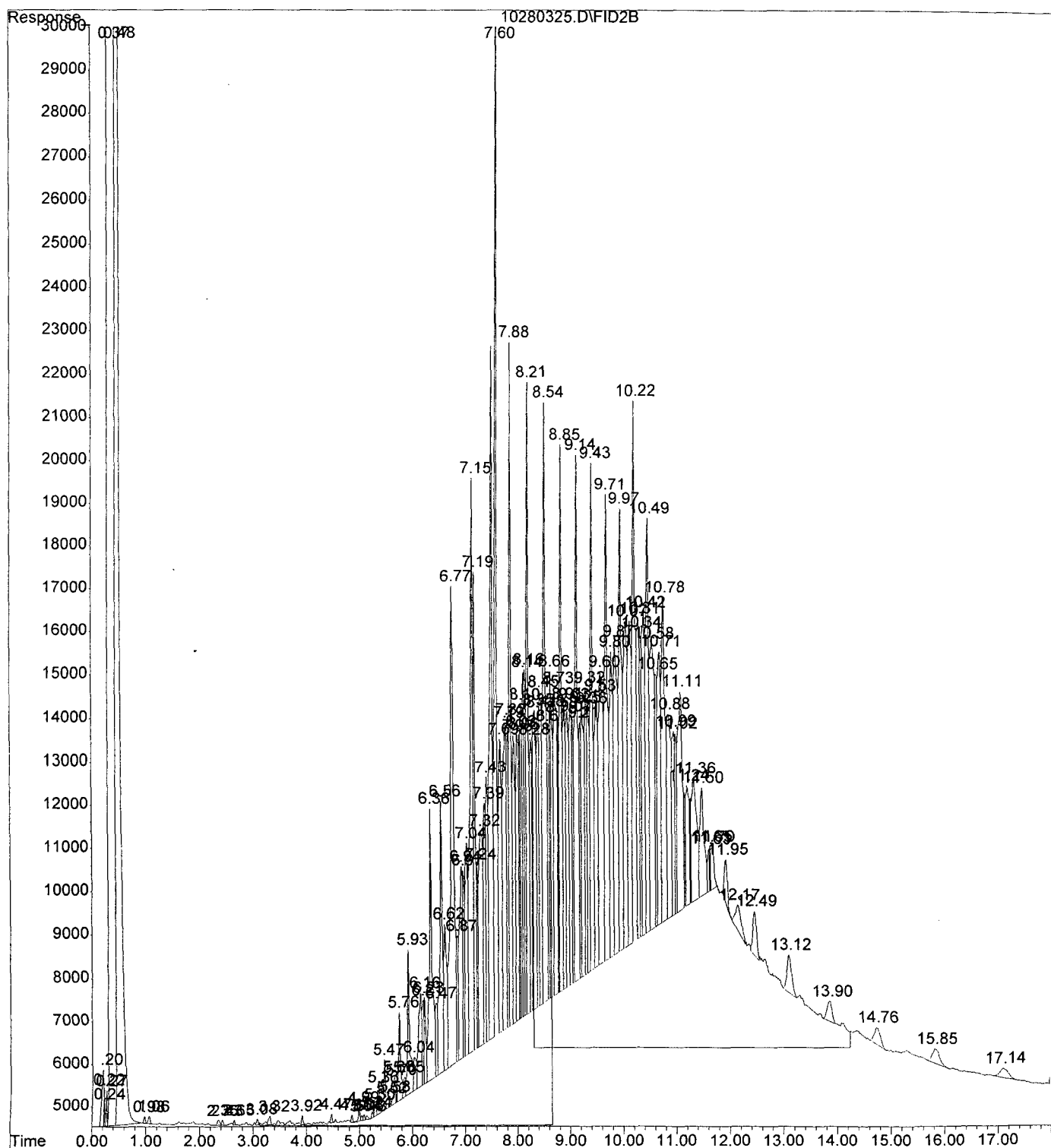
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Operator : VPH  
Acquired : 28 Oct 2003 21:58 using AcqMethod TPH1027.M  
Instrument : FID-1  
Sample Name: 310136-09  
Misc Info : 10G/10ML 10/27  
Vial Number: 22



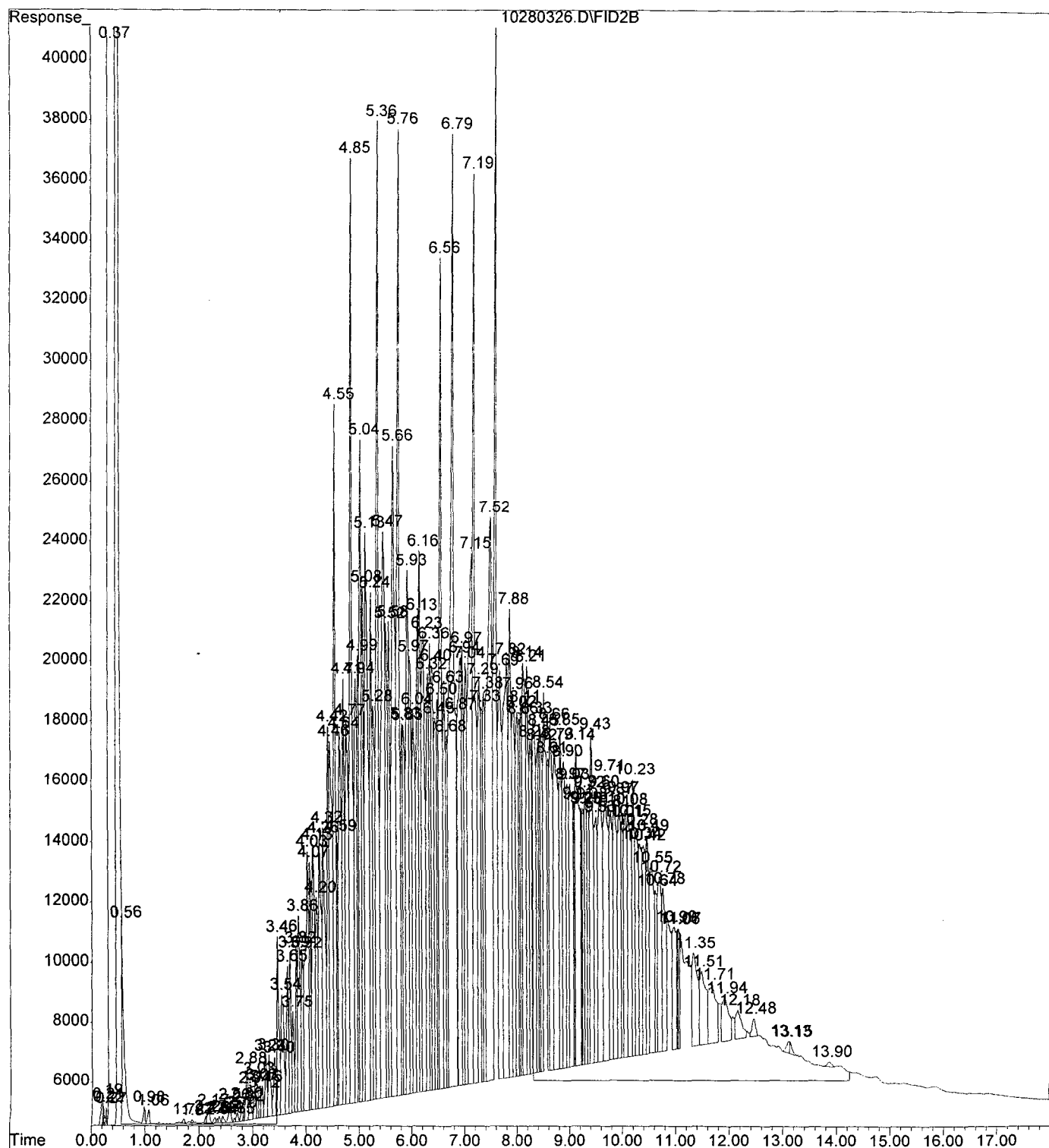
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Instrument : FID-1  
Sample Name: 310136-10  
Misc Info : 10G/10ML 10/27  
Vial Number: 23



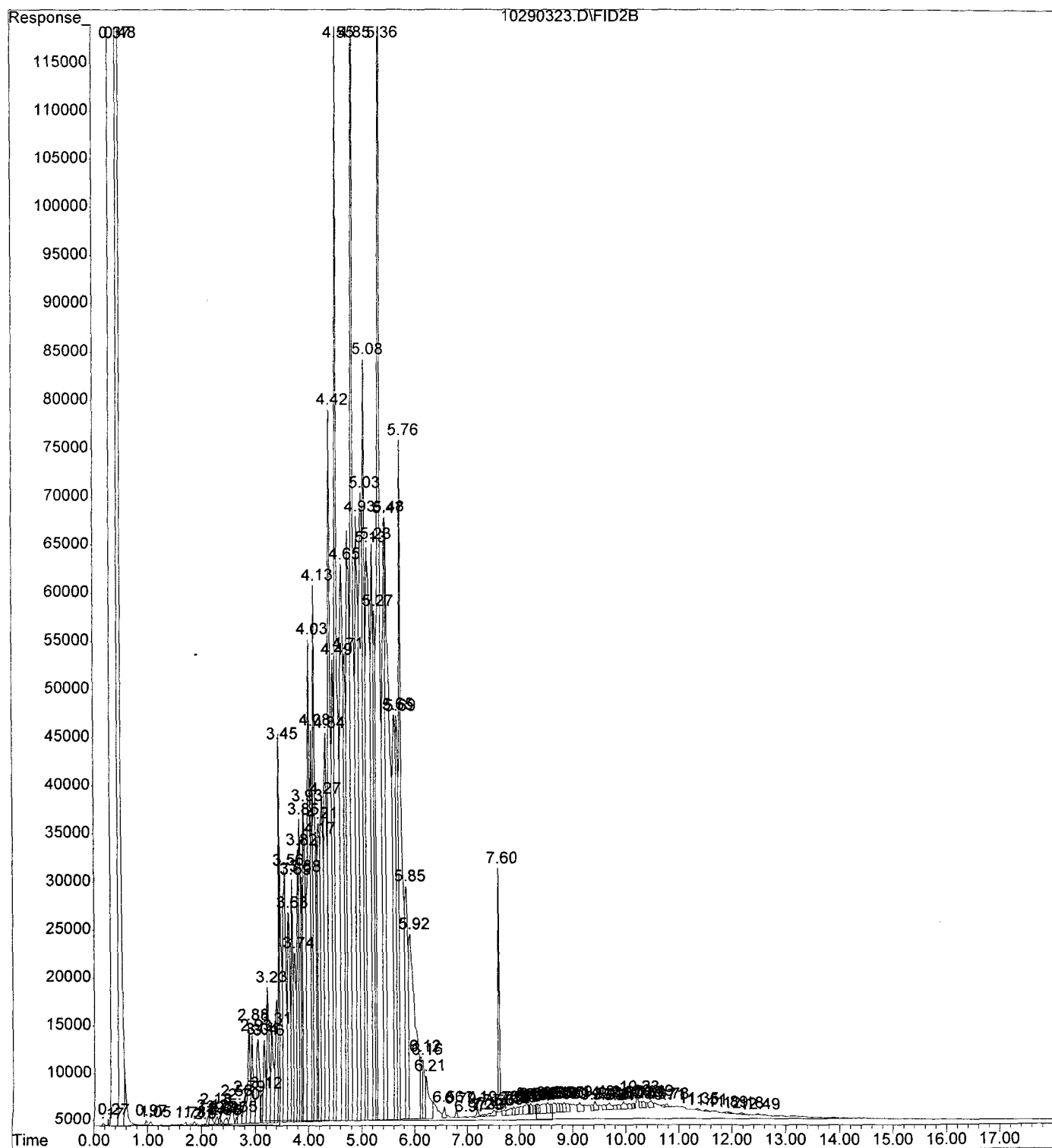
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Instrument : FID-1  
Sample Name: 310136-11  
Misc Info : 10G/10ML 10/27  
Vial Number: 24



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Operator : VPH  
Acquired : 28 Oct 2003 23:23 using AcqMethod TPH1027.M  
Instrument : FID-1  
Sample Name: 310136-12  
Misc Info : 10G/10ML 10/27  
Vial Number: 25

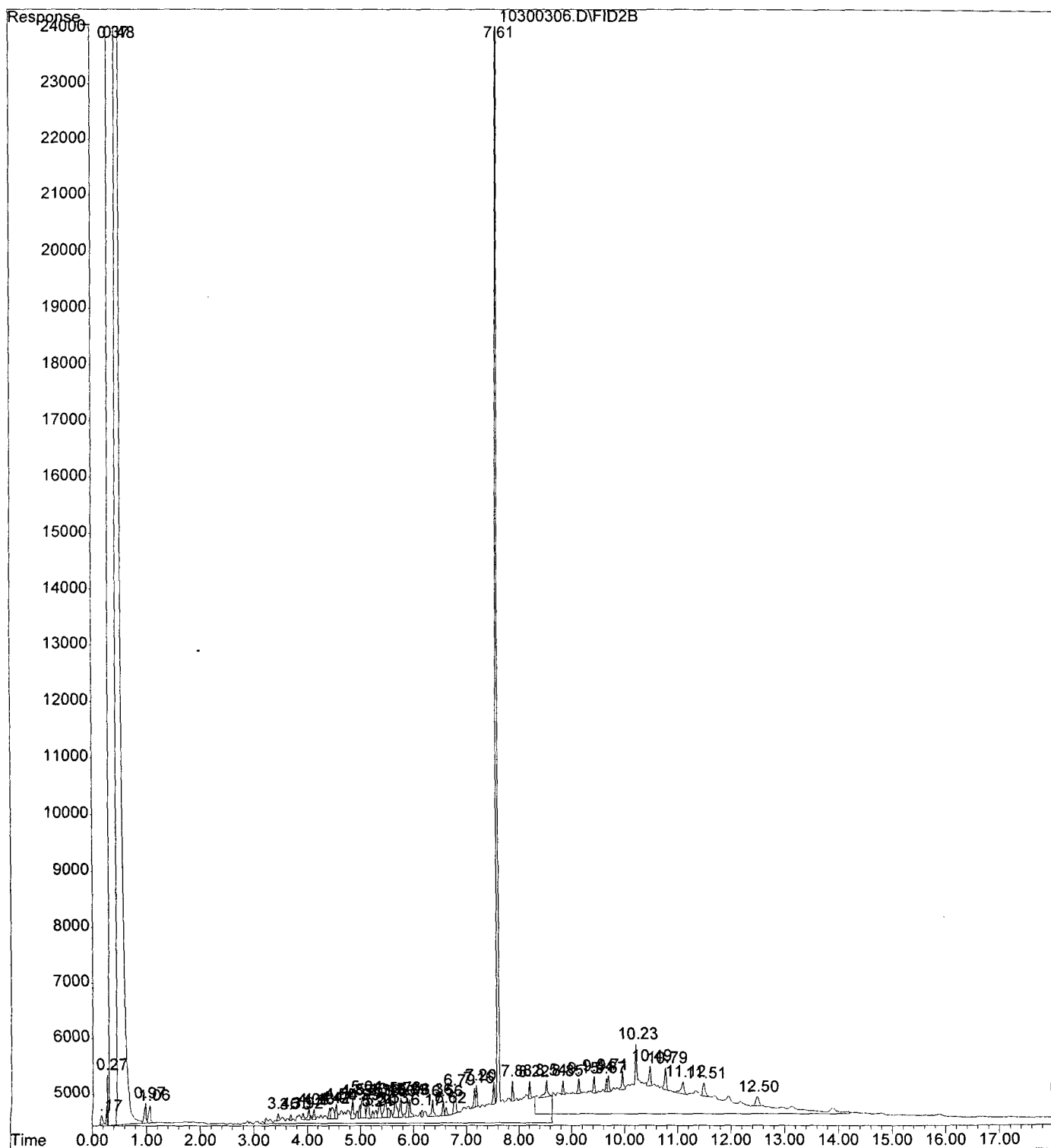


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Operator : VPH  
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Instrument : FID-1  
Sample Name: 310136-13  
Misc Info : 10G/10ML 10/28  
Vial Number: 19

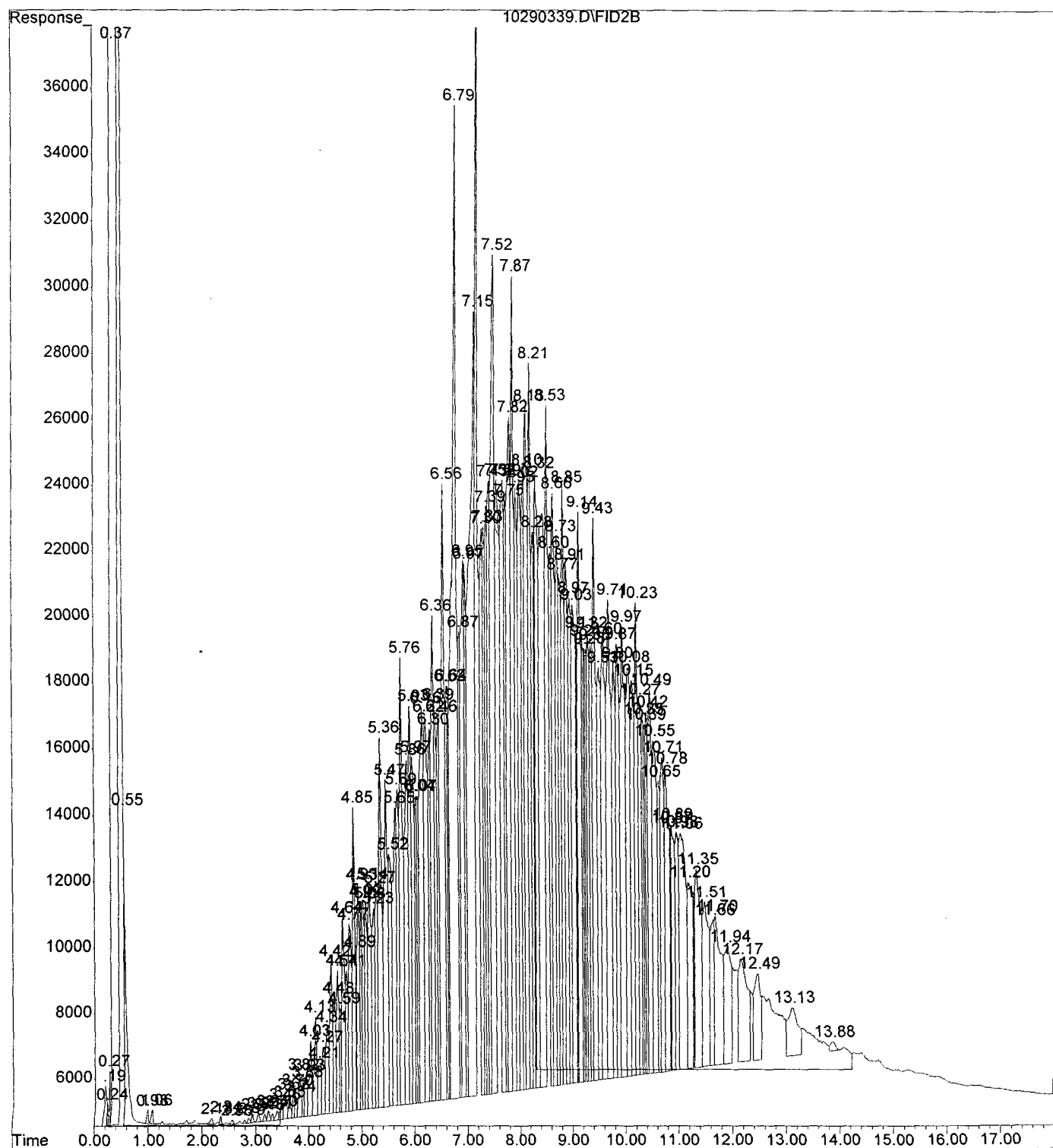




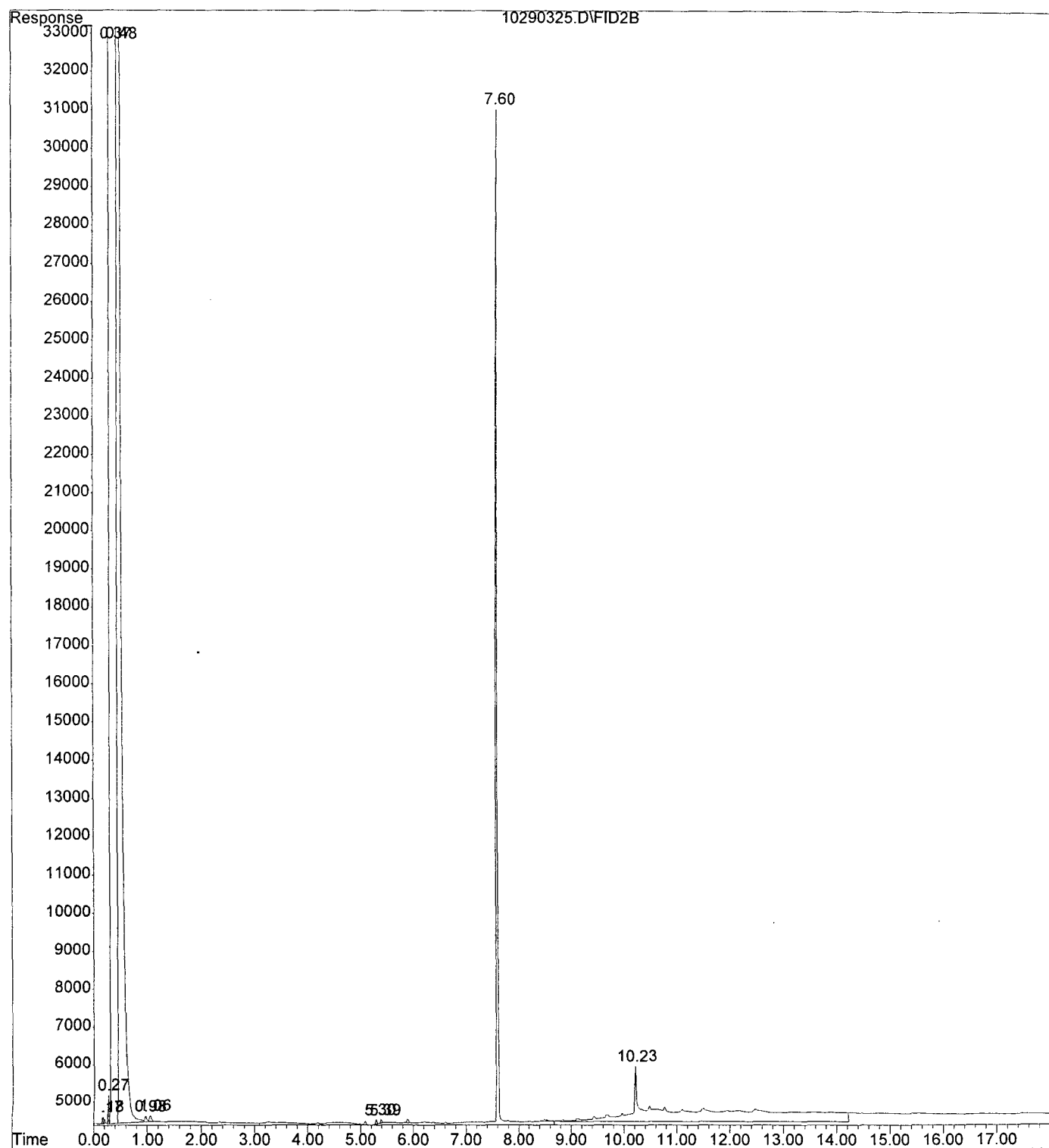
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Acquired : 30 Oct 2003 10:59 using AcqMethod TPH1027.M  
Instrument : FID-1  
Sample Name: 310136-14  
Misc Info : 10G/10ML 10/28  
Vial Number: 5



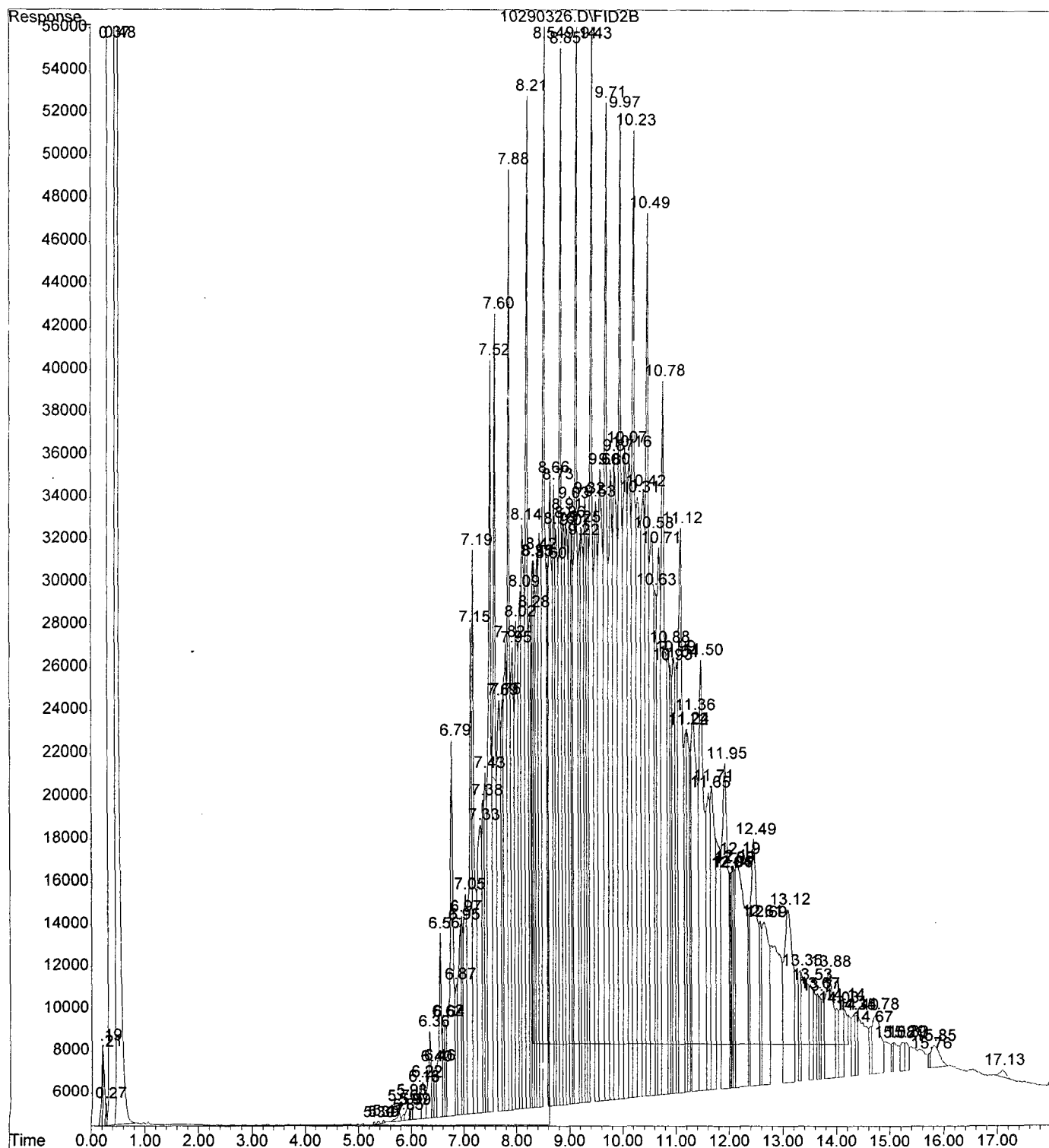
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Acquired : 30 Oct 2003 3:05 using AcqMethod TPH1027.M  
Instrument : FID-1  
Sample Name: 310136-15 20X  
Misc Info : 10G/10ML 10/28 150UL/1ML  
Vial Number: 33



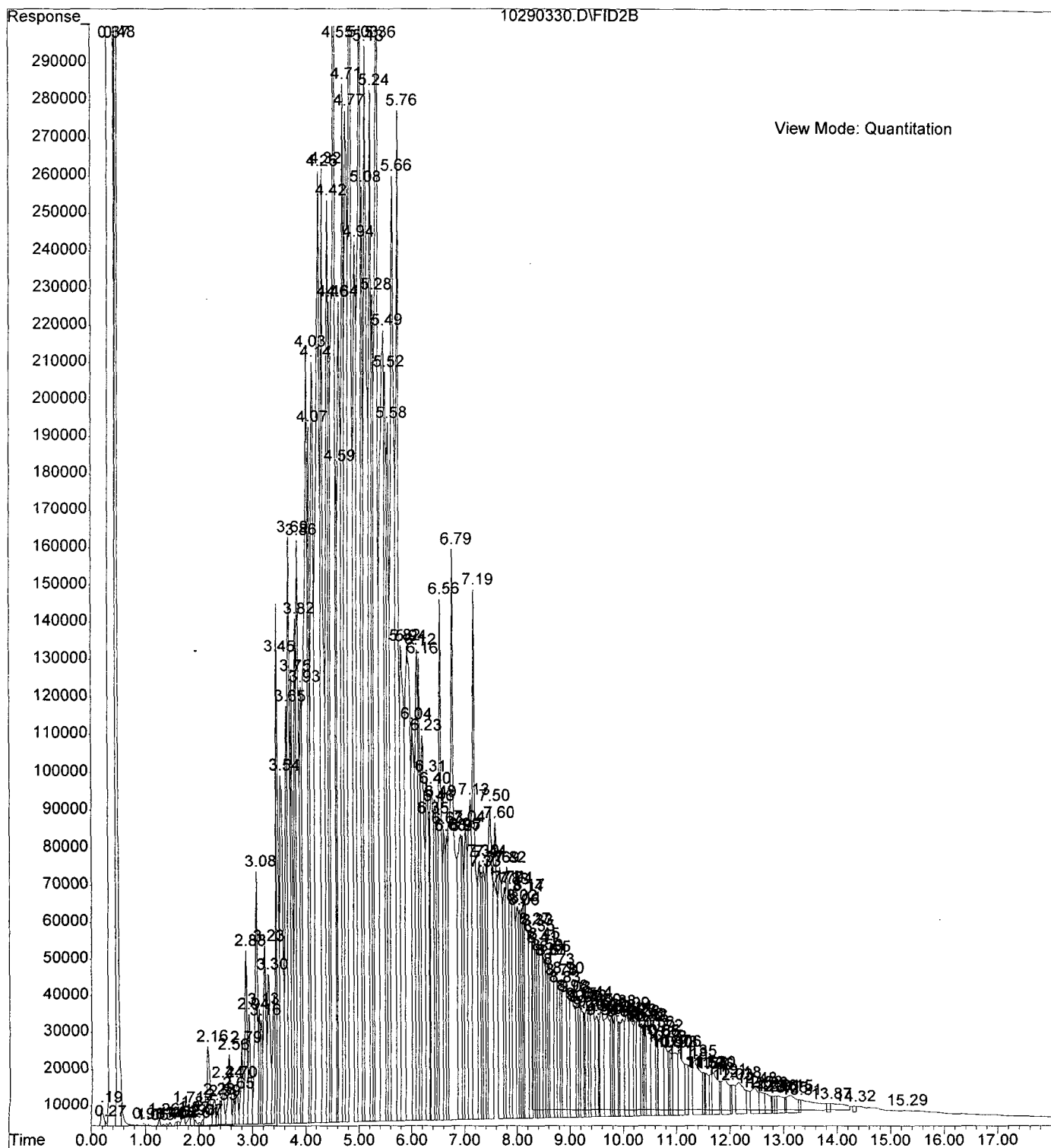
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Sample Name: 310136-16  
Misc Info : 10G/10ML 10/28  
Vial Number: 21



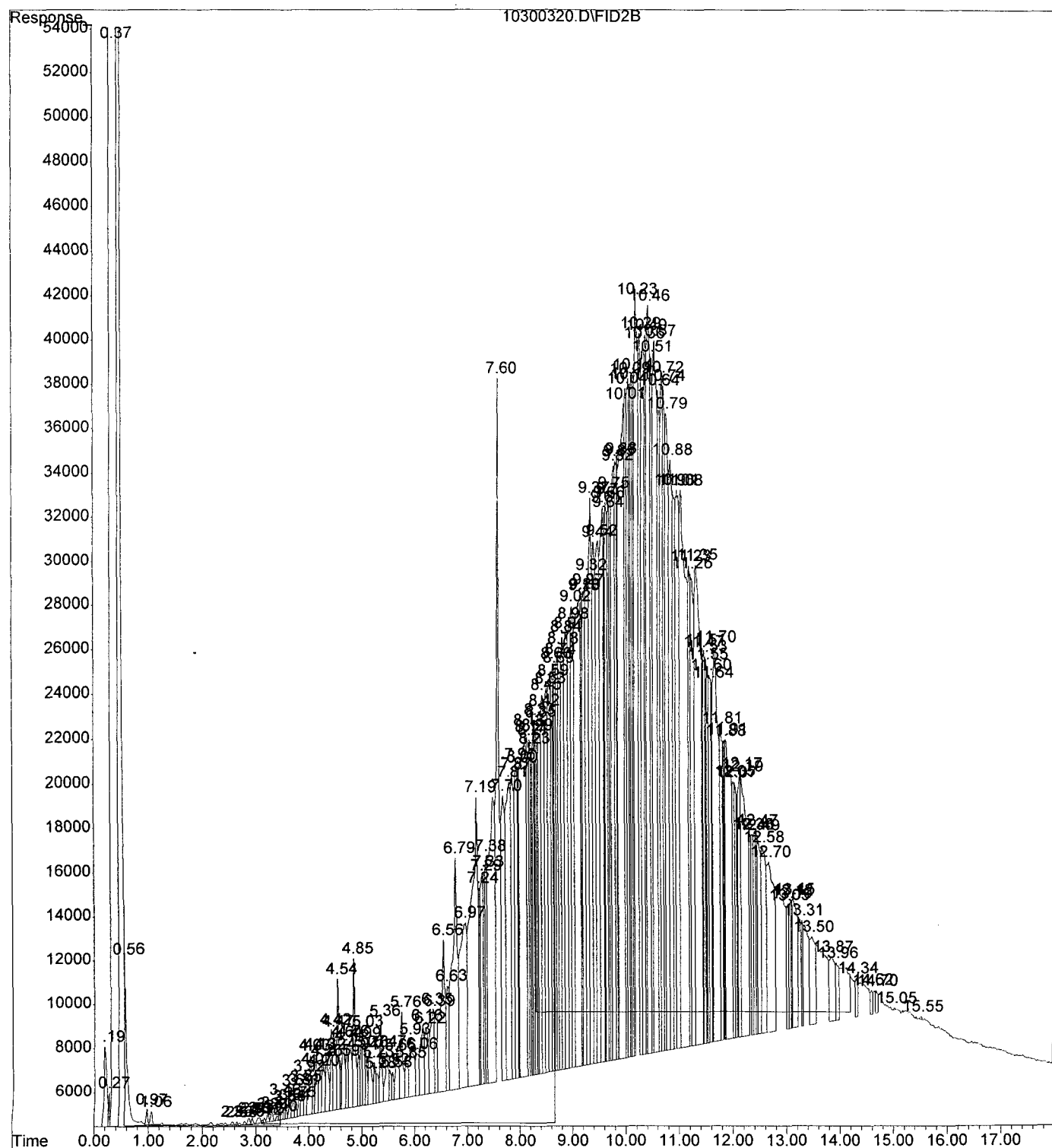
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Instrument : FID-1  
Sample Name: 310136-17  
Misc Info : 10G/10ML 10/28  
Vial Number: 22



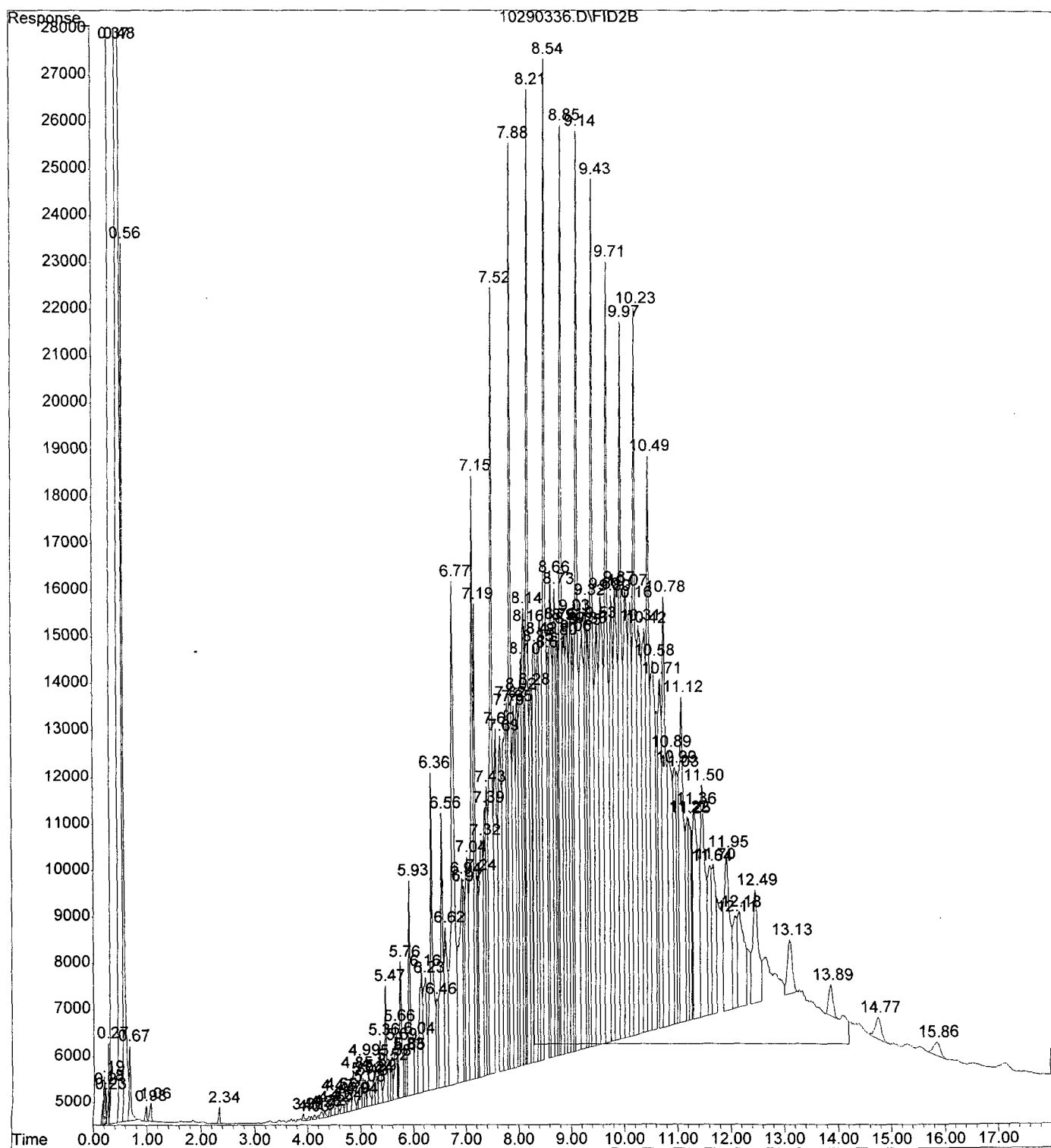
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Sample Name: 310136-18  
Misc Info : 10G/10ML 10/28  
Vial Number: 26



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Instrument : FID-1  
Sample Name: 310136-19  
Misc Info : 10G/10ML 10/28  
Vial Number: 14



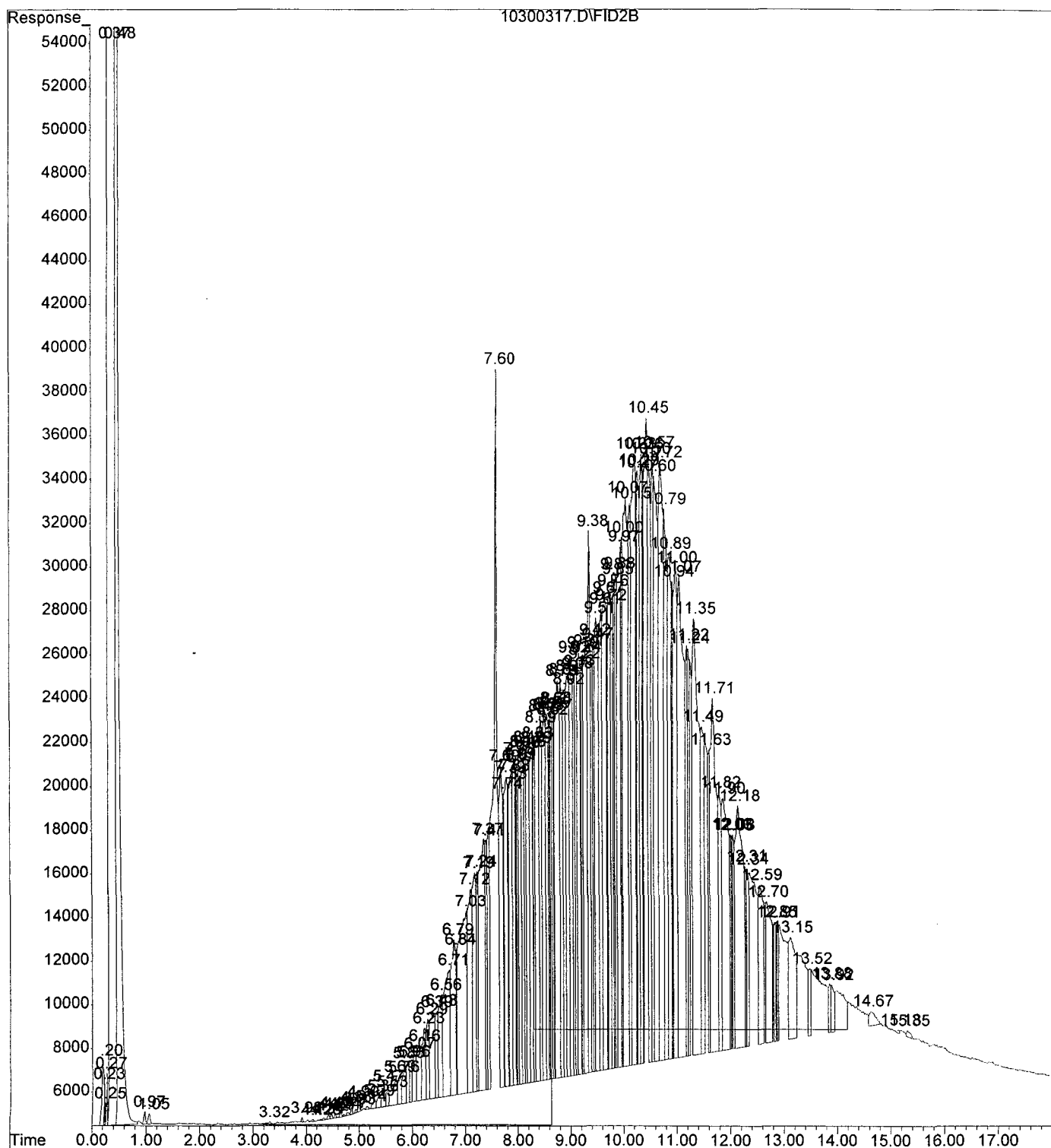
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Sample Name: 310136-20 10X  
Misc Info : 10G/10ML 10/28 100UL/1ML  
Vial Number: 31



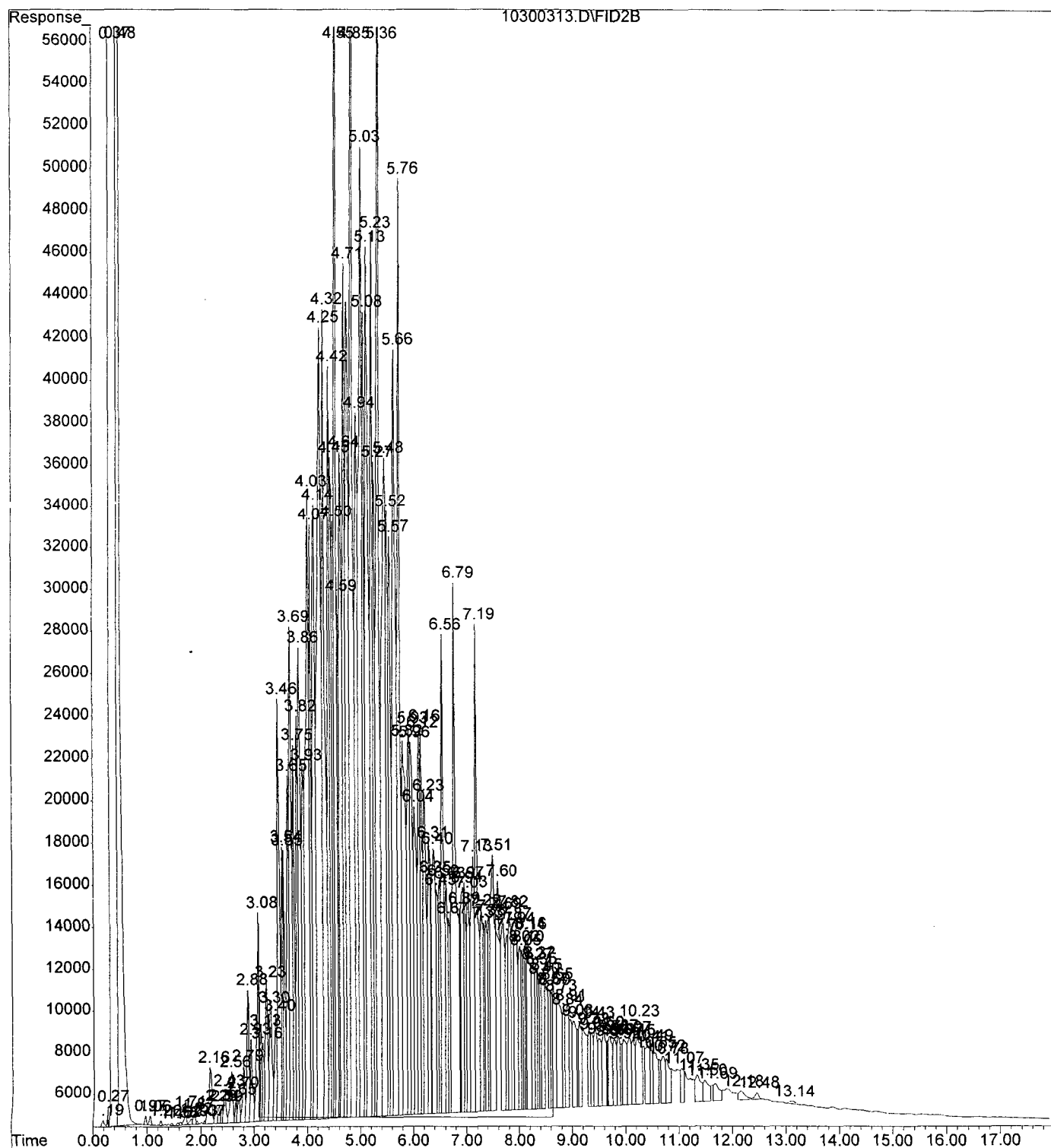




File : C:\HPCHEM\2\DATA\103003F\10300317.D  
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Acquired : 30 Oct 2003 16:09 using AcqMethod TPH1027.M  
Instrument : FID-1  
Sample Name: 310136-22  
Misc Info : 10G/10ML 10/28  
Vial Number: 13



File : C:\HPCHEM\2\DATA\103003F\10300313.D  
Operator : VPH  
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Instrument : FID-1  
Sample Name: 310136-23 10X  
Misc Info : 10G/10ML 10/28 100UL/1ML  
Vial Number: 10





# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**Lori Wrotenbery**

Director

**Oil Conservation Division**

December 30, 2003

Mr. Pat Wise  
City Manager  
City of Lovington  
P.O. Box 1269  
Lovington, NM 88260

**RE: Araho, Inc. Former Injection Well Disposal Facility –  
Phase I Investigation and Remediation Final Report.**

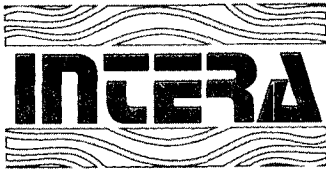
Dear Mr. Wise:

The New Mexico Oil Conservation Division (OCD) has completed the Phase I investigation and remediation of the Araho, Inc. former injection well disposal facility. Enclosed please find a copy of the final report for Phase I. If you should have any questions regarding this report please give me a call at 505-476-3488.

Sincerely,

Martyne J. Kielsing  
Environmental Geologist

cc: File GW-037



**Intera Incorporated**  
One Park Square, Suite 820  
6501 Americas Parkway NE  
Albuquerque, NM 87110  
Telephone: 505 246 1600  
Fax: 505 246 2600

November 11, 2003

Ms. Martyne J. Kieling  
Environmental Geologist  
New Mexico Oil Conservation Division  
1220 South Saint Francis Drive  
Santa Fe, NM 87505

• **RE: Invoice No. 11-03-39**

Ms. Kieling:

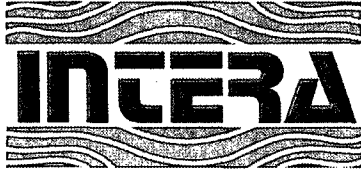
INTERA Inc. (INTERA) appreciates the opportunity to work with the New Mexico Oil Conservation Division. Enclosed you will find INTERA Invoice No. 11-03-39, submitted to you for the work conducted through the end of October 2003 at the Araho, Inc. Facility in Lovington, New Mexico. The costs on the enclosed invoice reflect those charges associated with the project management, NORM survey, and field work portion of the project (Tasks 1, 2, and 3).

A final report is currently being prepared by INTERA for your review (Task 4). If you have any questions regarding the enclosed invoice, please do not hesitate to contact me at (505) 246-1600 ext. 219. Thank you very much.

Sincerely,  
**INTERA Inc.**

Joseph Tracy, PG  
Project Manager

Enclosure: Invoice No. 11-03-39 with back-up



**Intera Incorporated**

9111A Research Boulevard

Austin, Texas 78758

Telephone: 512 425 2000

Fax: 512 425 2099

New Mexico Oil Conservation Division

Attn: Martyne Kielling

1220 South Saint Francis Drive

Santa Fe, NM 87505

November 3, 2003

Invoice No 11-03-39

PROJECT NO: NMO-ARA

To Invoice for services rendered.

RE: Phase I Surface Investigation and Clean-up at ARAHO, Inc

Contract#308050918056

PO#03-199-000799

Billing Period: 6-1-2003/10-31-2003

Project Manager: Joseph Tracy

**Professional Services**

Total Task 1

\$3,722.00

Total Task 2

\$ 2,604.00

Total Task 3

\$ 92,983.40

Total Charges-detail attached

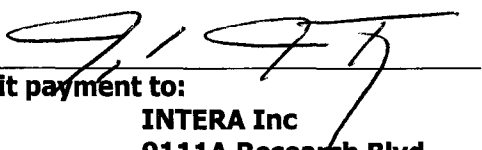
\$99,309.40

NMGRT 5.8125%

5,772.36

**Total Invoice**

**\$105,081.76**

Approved by: 

Please remit payment to:

**INTERA Inc**

**9111A Research Blvd.**

**Austin, TX 78758**

*Approved For payment  
\$ 100,400.35  
Martyne Kielling  
12-23-03*

State of New Mexico  
Oil Conservation Division  
Phase I Investigation and Remediation  
Araho, Inc.  
Invoice Detail  
November 3, 2003

**Task 1. Project Coordination and Fieldwork Preparation**

Professional Services	Contract Line	Item	Rate	Unit	# of Units	Total
Principal		0001	100.00	hour	3	\$ 300.00
Project Scientist/Engineer/Manager		0003	67.00	hour	4	\$ 268.00
Project Scientist/Engineer/Manager		0003	67.00	hour	38	\$ 2,546.00
Staff Scientist/Engineer		0004	52.00	hour	4	\$ 208.00
Field Technician II		0005	50.00	hour	8	\$ 400.00
<b>Subtotal Professional Labor</b>						<b>\$ 3,722.00</b>
<b>SUBTOTAL TASK 1:</b>						<b>\$ 3,722.00</b>
<b>NMGRT @ 5.8125%</b>						<b>\$ 216.34</b>
<b>GRAND TOTAL TASK 1:</b>						<b>\$ 3,938.34</b>
<b>Task 2. Map Buried Utilities (1-Call) and Perform Naturally Occurring Radioactive Materials (NORM) Survey</b>						
Professional Services	Contract Line	Item	Rate	Unit	# of Units	Total
Staff Scientist/Engineer		0004	52.00	hour	2	\$ 104.00
Field Technician II - Mobilization		0005	50.00	hour	16	\$ 800.00
Field Technician II		0005	50.00	hour	8	\$ 400.00
Draftsperson II (Utility Mapping)		0007	50.00	hour	0	\$ -
<b>Subtotal Professional Labor</b>						<b>\$ 1,304.00</b>
Expenses	Contract Line	Item	Rate	Unit	# of Units	Total
NORM Survey		"At Cost"	1,300.00	each	1	\$ 1,300.00
<b>Subtotal Expenses</b>						<b>\$ 1,300.00</b>
<b>SUBTOTAL TASK 2:</b>						<b>\$ 2,604.00</b>
<b>NMGRT @ 5.8125%</b>						<b>\$ 151.36</b>
<b>GRAND TOTAL TASK 2:</b>						<b>\$ 2,755.36</b>



State of New Mexico  
Oil Conservation Division  
Phase I Investigation and Remediation  
Araho, Inc.  
Invoice Detail  
November 3, 2003

**Task 3. Field Investigation: Tank Removal/Cleaning/Disposal and Piping Removal/Disposal and Sampling/Trenching**

Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Project Scientist/Engineer/Manager	0003	67.00	hour	8	\$ 536.00
Staff Scientist/Engineer	0004	52.00	hour	11	\$ 572.00
Field Technician II - Fieldwork - INTERA Rep	0005	50.00	hour	90	\$ 4,500.00
Field Technician II - Fieldwork - INTERA Rep	0005	50.00	hour	13.5	\$ 675.00
Field Technician II - Foreman	0005	50.00	hour	60	\$ 3,000.00
Field Technician I - Equipment Operator Trackhoe	0006	35.00	hour	60	\$ 2,100.00
Field Technician I - Equipment Operator Trackhoe	0006	35.00	hour	10	\$ 350.00
Field Technician I - Equipment Operator Backhoe	0006	25.00	hour	60	\$ 1,500.00
Field Technician I - Laborer	0006	20.00	hour	120	\$ 2,400.00
Field Technician I - Laborer	0006	20.00	hour	112	\$ 2,240.00
Hourly Secretary	0010	30.00	hour	0	\$ -
<b>Subtotal Professional Labor</b>					<b>\$ 17,873.00</b>
Expenses	Contract Line Item	Rate	Unit	# of Units	Total
Mobilization of Equipment	0047	1.75	mile	629	\$ 1,100.75
Disposal of Contaminated Fluids (Product)	0044	10.80	barrel	3,565	\$ 38,502.00
Vacuum/Jet Truck	"At Cost"	750.00	day	6	\$ 4,500.00
Vacuum/Jet Truck (additional costs to be determined)	"At Cost"	750.00	day	0	\$ -
Hot Oil Truck	"At Cost"	92.50	hour	26.5	\$ 2,451.25
Trackhoe Heavy Duty	0030	646.00	day	6	\$ 3,876.00
Trackhoe Heavy Duty	0030	646.00	day	1	\$ 646.00
Transportation and Disposal of Materials (Scrap Metals, Piping, Tanks) below NORM allowable limits	"At Cost"	195.00	load	6	\$ 1,170.00
Transportation and Disposal of Materials (Scrap Metals, Piping, Tanks) below NORM allowable limits	"At Cost"	195.00	load	1	\$ 195.00
Disposal of Miscellaneous Trash	"At Cost"	40.00	ton	12	\$ 480.00
Disposal of Miscellaneous Trash	"At Cost"	40.00	ton	1	\$ 40.00
Backhoe Medium Duty	0026	141.30	day	6	\$ 847.80
Delivery of Two 20 Yard Roll-Off Containers	"At Cost"	300.00	each	2	\$ 600.00
Mixing of Dry On-Site Material	"At Cost"	200.00	each	1	\$ 200.00
Clean Sand	"At Cost"	4.00	yard	200	\$ 800.00
Land-Farm of Solid Waste at Rhino's OCD Permitted Facility	0045	31.15	yard	443	\$ 13,799.45

State of New Mexico  
Oil Conservation Division  
Phase I Investigation and Remediation  
Araho, Inc.  
Invoice Detail  
November 3, 2003

Fresh Water Transport and Use	"At Cost"	3,422.15	project	1	\$	3,422.15
Combustible Gas Indicator (CGI) with O <sub>2</sub> , H <sub>2</sub> S, CO <sub>2</sub>	0012	50.00	day	6	\$	300.00
Fresh Air/Safety Trailer/Personal Air Samplers	"At Cost"	300.00	day	5	\$	1,500.00
Hand-Held GPS Unit	"At Cost"	5.00	day	6	\$	30.00
Photoionization Detector (PID)	0021	10.00	day	6	\$	60.00
Mileage	0042	0.25	mile	800	\$	200.00
Per Diem	0043	65.00	day	6	\$	390.00
Subtotal Expenses	0043	65.00	day	1	\$	65.00
SUBTOTAL TASK 3:					\$	75,110.40
NMGRT @ 5.8125%					\$	92,983.40
GRAND TOTAL TASK 3:					\$	5,404.66
					\$	98,388.06
PROJECT GRAND TOTAL:					\$	105,081.76

Notes:

NMGRT = New Mexico Gross Receipts Tax



State of New Mexico  
Oil Conservation Division  
Phase I Investigation and Remediation

Araho, Inc.

Invoice Detail

November 3, 2003

*Receipts*

**Task 1. Project Coordination and Fieldwork Preparation**

Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Principal	0001	100.00	hour	3	\$ 300.00
Project Scientist/Engineer/Manager	0003	67.00	hour	4	\$ 268.00
Project Scientist/Engineer/Manager	0003	67.00	hour	38	\$ 2,546.00
Staff Scientist/Engineer	0004	52.00	hour	4	\$ 208.00
Field Technician II	0005	50.00	hour	8	\$ 400.00
<b>Subtotal Professional Labor</b>					<b>\$ 3,722.00</b>

SUBTOTAL TASK 1: \$ 3,722.00  
 NMGR @ 5.8125% \$ 216.34  
 GRAND TOTAL TASK 1: \$ 3,938.34

**Task 2. Map Buried Utilities (1-Call) and Perform Naturally Occurring Radioactive Materials (NORM) Survey**

Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Staff Scientist/Engineer	0004	52.00	hour	2	\$ 104.00
Field Technician II - Mobilization	0005	50.00	hour	16	\$ 800.00
Field Technician II	0005	50.00	hour	8	\$ 400.00
Draftsperson II (Utility Mapping)	0007	50.00	hour	0	\$ -
<b>Subtotal Professional Labor</b>					<b>\$ 1,304.00</b>

Expenses	Contract Line Item	Rate	Unit	# of Units	Total
----------	--------------------	------	------	------------	-------

NORM Survey "At Cost" 1,300.00 each 1 \$ 1,300.00

SUBTOTAL TASK 2: \$ 2,604.00  
 NMGR @ 5.8125% \$ 151.36  
 GRAND TOTAL TASK 2: \$ 2,755.36

390.75

Invoice ✓

**RHINO ENVIRONMENTAL**  
SERVICES INC.  
P.O.BOX 57180  
ALBUQUERQUE, NM 87187-7180

# Invoice

Customer No.: INTERA INC.

Invoice No.: 6295

Bill To: **INTERA INC- JOE TRACY**  
SUITE 820  
6501 AMERICAS PARKWAY NE  
ALBUQUERQUE, NM 87110

Ship To: **ARAHO INC.**  
INJECTION WELL DISPOSAL  
FACILITY, LEA COUNTY, NM.

Date	Ship Via		F.O.B.	Terms		
10/31/03				Net 30		
Purchase Order Number		Order Date	Sales Person		Our Order Number	
		10/31/03			6328	
Quantity			Item Number	Description	Unit Price	Amount
Required	Shipped	B.O.				

	0047	MOBILIZATION/DEMOBILIZATION		1100.00 ✓
565.000	0044	DISPOSAL OF LIQUID	10.80	38502.00 ✓
		3,565 GALLONS AT \$10.80/GAL		
60.000	" At Cost "	VACUUM/JET TRUCK ✓	75.00	4500.00 ✓
		60 HOURS AT \$75.00/HOUR		
6.000	0030	TRACKHOE/TANK DEMOLITIONS	646.00	3876.00 ✓
		6 DAYS AT \$646.00/DAY		
6.000	0006	TRACKHOE/OPERATOR-	350.00	2100.00 ✓
		\$35.00/HOUR OR \$350.00 PER		
		DAY- (6 DAYS/10 HOURS EACH)		
5.000	" At Cost "	FRESH AIR/SAFETY TRAILER	300.00	1500.00 ✓
		AND GAS MONITOR-5 DAYS AT		
		\$300.00 PER DAY		
6.000	0005	HEALTH AND SAFETY OFFICER/	500.00	3000.00 ✓
		FOREMAN-\$50.00/HR-(6 DAYS/10		
		HR DAYS) \$500.00 PER DAY		
6.000	0006	LABOR- 2 LABORERS FOR 6 DAYS	400.00	2400.00 ✓
		AT \$20.00/HR OR \$400.00/DAY-		
		10 HOUR DAYS		
6.000	0026	BACKHOE AND LOADER	141.3000	847.80 ✓
		6 DAYS AT \$141.30 PER DAY		
6.000	0006	BACKHOE OPERATOR	250.00	1500.00 ✓
		6 DAYS AT \$250.00 PER DAY		
11.000	" At Cost "	GARBAGE/TRANSPORTATION	40.00	440.00 ✓
		DISPOSAL-48 CUBIC YARDS OR		
		11 TONS AT \$40.00/TON		
6.000	" At Cost "	DISPOSAL OF SCRAP METALS-	195.00	1170.00 ✓
		INCLUDES TANKS-AND PIPING		
		6 LOADS AT \$195.00/LOAD		
1.000	" At Cost "	DELIVERY OF (2) 20 CUBIC	600.00	600.00 ✓
		YARD ROLL-OFFS		
200.000	" At Cost "	CLEAN SAND-200 CUBIC YARDS	4.00	800.00 ✓
		AT \$4.00 CUBIC YARD		

Thank You

**Kieling, Martyne**

---

**From:** David Boyer [dgboyer@sesi-nm.com]  
**Sent:** Friday, October 31, 2003 7:26 AM  
**To:** mkieling@state.nm.us  
**Subject:** Arahoe Pit

Martyne,

Checked our files for that project and found that two boreholes were completed as temporary monitor wells, one on the northwest corner and one on the southeast corner. W-1 on the NW corner had a TD of 83 ft. with the top of water at 74 ft. W-2 on the SE corner had a TD of 80 ft. also with the top of water at 74 ft. There was no log with this information, although notes indicated a bentonite and grout seal was placed following sampling of the ground water. Bob was in the area yesterday at the time we talked and went by the site; he confirms that there are no current monitor wells at the site.

I will be in the area this morning myself; let me know if you need any other info.

Dave Boyer

11/18/2003



Before surface cleanup.



After surface cleanup, Pit Remains in upper left of photo.



ARAHO INC. Sec 1, T 17 S Range 36 E NMPM, Lea County, NM



Air Photo



Lined pit



Before surface cleanup.



After surface cleanup, Pit Remains in upper left of photo.



ARAHO INC. Sec 1, T 17 S Range 36 E NMPM, Lea County, NM



Air Photo



Lined pit

**RHINO ENVIRONMENTAL**  
**SERVICES INC.**  
P.O.BOX 57180  
ALBUQUERQUE, NM 87187-7180

# Invoice

Customer No.: INTERA INC.  
Invoice No.: 6295

Bill To: **INTERA INC- JOE TRACY**  
SUITE 820  
6501 AMERICAS PARKWAY NE  
ALBUQUERQUE, NM 87110

Ship To: **ARAO INC.**  
INJECTION WELL DISPOSAL  
FACILITY, LEA COUNTY, NM.

Date	Ship Via		F.O.B.	Terms		
10/31/03				Net 30		
Purchase Order Number		Order Date	Sales Person		Our Order Number	
		10/31/03			6328	
Quantity			Item Number	Description	Unit Price	Amount
Required	Shipped	B.O.				

443.000	0045	DISPOSAL OF WASTE MATERIAL- SAND MIXTURE ESTIMATES 443 CUYDS AT \$31.15/CUYD TOTAL: \$76,135.25	31.15	13799.45 ✓
---------	------	--	-------	------------

## CHANGE ORDER ITEMS

"At Cost"	LOADER ON SITE GATHERING AND MIXING DRY ON SITE MATERIAL	200.00 ✓
"At Cost"	VACUUM/JET TRUCK COST TO BE DETERMINED	
0030	TRACKHOE/TANK DEMOLITIONS 1 DAY AT \$646.00 PER DAY	646.00 ✓
0006	TRACKHOE/OPERATOR- \$35.00/HR. BASED ON 10 HOUR DAYS OR \$350.00 PER DAY	350.00 ✓
112.000	0006 LABOR- 112 HOURS AT \$20.00 PER HOUR	20.00 2240.00 ✓
"At Cost"	DISPOSAL OF SCRAP METALS (INCLUDES TANKS) AND PIPING 1 LOAD AT \$195.00 PER LOAD	195.00 ✓
26.500	"At Cost" HOT OIL TRUCK- 26.5 HOURS AT \$92.50 PER HOUR	92.50 2451.25 ✓
"At Cost"	TRANSPORT/OPERATOR BRINE AND FRESH WATER CRANE- NO CHARGE 4 CUYD LOADER- NO CHARGE SKY LIFT- NO CHARGE TANK TRANSPORT- NO CHARGE	3422.15 ✓
TOTAL CHANGE ORDERS-		
\$9,504.40		

Thank You



**RHINO ENVIRONMENTAL**  
SERVICES INC.  
P.O.BOX 57180  
ALBUQUERQUE, NM 87187-7180

# Invoice

Customer No.: INTERA INC.

Invoice No.: 6295

Bill To: **INTERA INC- JOE TRACY**  
SUITE 820  
6501 AMERICAS PARKWAY NE  
ALBUQUERQUE, NM 87110

Ship To: **ARAHO INC.**  
INJECTION WELL DISPOSAL  
FACILITY, LEA COUNTY, NM.

Date		Ship Via		F.O.B.		Terms	
10/31/03						Net 30	
Purchase Order Number			Order Date	Sales Person			Our Order Number
			10/31/03				6328
Quantity			Item Number	Description		Unit Price	Amount
Required	Shipped	B.O.					

Invoice subtotal 85639.65

Invoice total 85639.65

Thank You

STATE OF NEW MEXICO  
ENERGY MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal Time 1:30 Date 10-1-03

7:55 10/2/03 Called back  
3:00

Originating Party

Other Parties

Wimford Fine  
Cell SDS - 370 - 2930  
Home SDS - 675 - 2408  
Martyne Kiehl  
Received voice mail  
message

Subject Refund by Pat Wise City of Lovington  
City Manager

Discussion Calf got into Arado Pit and Died Last week

Either under the Arm across the cattle Guard or along the  
Fence 20' Feet to the East.

Calf was covered in oil could not get clean and  
Died of Heat Exhaustion.

Conclusions or Agreements Will Call Back on Tue 10-7-03  
OLD Not Responsible For Payment of Calf.  
Not sure who is either the company owner or  
The Surface owner.

Distribution

Signed

Martyne Kiehl

## Kieling, Martyne

---

**From:** Johnson, Larry  
**Sent:** Tuesday, September 30, 2003 9:45 AM  
**To:** Kieling, Martyne  
**Subject:** Araho

Looked over the site yesterday - found some tracks in the paraffin in the small pit on east side - these are imbedded and there is no way to know how old they are - found no tracks leading up to the pit - actually searched the entire location for tracks of ANY kind and found none. The fence is in good shape except for a 15' to 20' span on the south side - even there it seems a calf would have difficulty getting through - when did the event allegedly occur?



DCP\_1168.JPG



DCP\_1169.JPG



DCP\_1170.JPG



DCP\_1171.JPG



DCP\_1172.JPG



DCP\_1173.JPG



DCP\_1174.JPG



DCP\_1175.JPG



DCP\_1176.JPG



DCP\_1179.JPG



DCP\_1180.JPG



DCP\_1181.JPG



DCP\_1182.JPG



DCP\_1183.JPG



DCP\_1184.JPG



DCP\_1186.JPG



DCP\_1188.JPG









STATE OF NEW MEXICO  
ENERGY MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION

## MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal Time ~~1:55~~ 2:55 p.m. Date 9-25-03

Originating Party

Other Parties

Patwise 396-2884  
City of Lovington  
City ManagerMartyn Kiclig  
OCD

Subject

Araho Pit

Rancher lost calf in pit

Wimford Fine

Box 42 ELida NM 88116

(No Phone #)

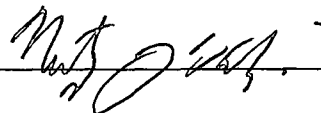
Discussion

City took Pictures they will forward on to us.

Conclusions or Agreements

Distribution

Signed





TRANSMITTAL COVER SHEET

OIL CONSERVATION DIVISION  
1220 S. ST. FRANCIS DRIVE  
SANTA FE, NM 87505  
(505) 476-3440  
(505)476-3462 (Fax)

PLEASE DELIVER THIS FAX:

TO: Diamond Back Disposal Linsey Dyer 505392-9376

FROM: Marlynn Kelling

DATE: 10-28-03

PAGES: 1 of 2

SUBJECT: Certificate of Waste Status

IF YOU HAVE TROUBLE RECEIVING THIS FAX, PLEASE CALL THE OFFICE  
NUMBER ABOVE.



**DIAMONDBACK DISPOSAL & SERVICES, INC.****PO BOX 2491****HOBBS, NM 88241****PH: (505) 392-9996****FAX: (505) 392-9376****FAX****TO:** Martynne Keeling **FROM:** Linsey Dyer**COMPANY:** \_\_\_\_\_ **DATE:** 10-27-03**PHONE:** 505-476-3488 **CC:** \_\_\_\_\_**FAX:** 505-476-3462 **NUMBER OF PAGES:** \_\_\_\_\_  
(Including this page)**DESCRIPTION:**

# CERTIFICATE OF WASTE STATUS

<b>1. Generator (Name)</b> Address: New Mexico Oil Conservation Division 1220 South Saint Frances Dr. Santa Fe, NM 87505	<b>3. Location (Street Address &amp;/or ULSTR)</b> <del>1220 South Saint Frances Dr.</del>
<b>2. Originating Site (Name):</b> Arako facility SWD NE 1/4 SE 1/4, Sec 1, T 17 S, R 36 E	<b>4. Destination Name:</b> CRI Facility

**5. Source and Description of Waste:** Below grade pipe and Asorted trash From Pipe and tank removal

I, Martyn Kieling representative for  
Oil Conservation Division do hereby certify  
 that according to the Resource Conservation and Recovery Act (RCRA) and  
 Environmental Protection Agency's July, 1988 regulatory determination, the above  
 described waste is: (Check appropriate classification)

☒ EXEMPT oilfield waste

☐ NON-EXEMPT oilfield waste which  
 is non-hazardous by characteristic analysis  
 or by production identification.

For Non-exempt waste only the following documentation is attached:  
 (check appropriate item)

☐ MSDS Information  
☐ RCRA TCLP Analysis  
☐ Chain of Custody  
☐ Other (Description)

Name: (Signature) Martyn Kieling

Printed Name: Martyn Kieling

Title: Environmental Geologist

Date: 10-28-03

Attach list of originating sites as appropriate.

State of New Mexico  
Oil Conservation Division  
Phase I Investigation and Remediation  
Araho, Inc.  
Former Injection Well Disposal Facility,  
Lea County, New Mexico  
Revised Cost Estimate  
Revision III  
August 11, 2003

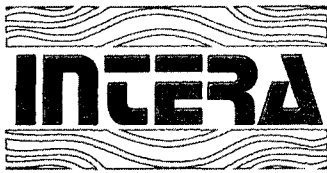
FASKIN  
915-683-1893

Task 1. Project Coordination and Fieldwork Preparation					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Principal	0001	100.00	hour	4	\$ 400.00
Project Scientist/Engineer/Manager	0003	67.00	hour	4	\$ 268.00
Staff Scientist/Engineer	0004	52.00	hour	4	\$ 208.00
Field Technician II	0005	50.00	hour	8	\$ 400.00
Subtotal Professional Labor					\$ 1,276.00
SUBTOTAL TASK 1:					\$ 1,276.00
NMGRT @ 5.8125%					\$ 74.17
GRAND TOTAL TASK 1:					\$ 1,350.17
Task 2. Map Buried Utilities (1-Call) and Perform Naturally Occurring Radioactive Materials (NORM) Survey					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Staff Scientist/Engineer	0004	52.00	hour	2	\$ 104.00
Field Technician II - Mobilization	0005	50.00	hour	16	\$ 800.00
Field Technician II	0005	50.00	hour	8	\$ 400.00
Draftsperson II (Utility Mapping)	0007	50.00	hour	8	\$ 400.00
Subtotal Professional Labor					\$ 1,704.00
Expenses	Contract Line Item	Rate	Unit	# of Units	Total
NORM Survey	"At Cost"	1,300.00	each	1	\$ 1,300.00
Subtotal Expenses					\$ 1,300.00
SUBTOTAL TASK 2:					\$ 3,004.00
NMGRT @ 5.8125%					\$ 174.61
GRAND TOTAL TASK 2:					\$ 3,178.61
Task 3. Field Investigation: Tank Removal/Cleaning/Disposal and Piping Removal/Disposal and Sampling/Trenching					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Project Scientist/Engineer/Manager	0003	67.00	hour	8	\$ 536.00
Staff Scientist/Engineer	0004	52.00	hour	12	\$ 624.00
Field Technician II - Fieldwork*	0005	50.00	hour	90	\$ 4,500.00
Field Technician II - Foreman	0005	50.00	hour	60	\$ 3,000.00
Field Technician I - Equipment Operator Trackhoe	0006	35.00	hour	60	\$ 2,100.00
Field Technician I - Equipment Operator Backhoe	0006	25.00	hour	60	\$ 1,500.00
Field Technician I - Laborer	0006	20.00	hour	60	\$ 1,200.00
Field Technician I - Laborer	0006	20.00	hour	60	\$ 1,200.00
Hourly Secretary	0010	30.00	hour	4	\$ 120.00
Subtotal Professional Labor					\$ 14,780.00
Expenses	Contract Line Item	Rate	Unit	# of Units	Total
Mobilization of Equipment	0047	1.75	mile	630	\$ 1,102.50
Disposal of Contaminated Fluids (Product)	0044	10.80	barrel	2,600	\$ 28,080.00
Disposal of Contaminated Fluids (Cleaning Water)	0044	10.80	barrel	1,000	\$ 10,800.00
Vacuum/Jet Truck	"At Cost"	750.00	day	6	\$ 4,500.00
Trackhoe Heavy Duty	0030	646.00	day	6	\$ 3,876.00
Transportation and Disposal of Materials (Scrap Metals, Piping, Tanks) below NORM allowable limits	"At Cost"	195.00	load	6	\$ 1,170.00
Disposal of Miscellaneous Trash	"At Cost"	40.00	ton	12	\$ 480.00
Backhoe Medium Duty	0026	157.00	day	6	\$ 942.00
Delivery of Two 20 Yard Roll-Off Containers	"At Cost"	300.00	each	2	\$ 600.00
Clean Sand	"At Cost"	4.00	yard	250	\$ 1,000.00
Land-Farm of Solid Waste at Rhino's OCD Permitted Facility	0045	31.15	yard	470	\$ 14,640.50
Combustible Gas Indicator (CGI) with O2, H2S, CO2	0012	50.00	day	6	\$ 300.00
Fresh Air/Safety Trailer/Personal Air Samplers	"At Cost"	300.00	day	6	\$ 1,800.00
Hand-Held GPS Unit	"At Cost"	5.00	day	3	\$ 15.00
Photoionization Detector (PID)	0021	10.00	day	6	\$ 60.00
Mileage	0042	0.25	mile	800	\$ 200.00
Per Diem	0043	65.00	day	8	\$ 520.00
Subtotal Expenses					\$ 70,086.00
SUBTOTAL TASK 3:					\$ 84,866.00
NMGRT @ 5.8125%					\$ 4,932.84
GRAND TOTAL TASK 3:					\$ 89,798.84
Task 4. Preparation of an Final Report					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Principal	0001	100.00	hour	8	\$ 800.00
Project Scientist/Engineer/Manager	0003	67.00	hour	24	\$ 1,608.00
Staff Scientist/Engineer	0004	52.00	hour	40	\$ 2,080.00
Field Technician II	0005	50.00	hour	24	\$ 1,200.00
Draftsperson II (Figures, Cross Sections)	0007	50.00	hour	16	\$ 800.00
Administrator (Technical Editor)	0009	40.00	hour	6	\$ 240.00
Subtotal Professional Labor					\$ 6,728.00
SUBTOTAL TASK 4:					\$ 6,728.00
NMGRT @ 5.8125%					\$ 391.07
GRAND TOTAL TASK 4:					\$ 7,119.07
<b>PROJECT GRAND TOTAL:</b>					<b>\$ 101,446.69</b>

Notes:

NMGRT = New Mexico Gross Receipts Tax

\* The labor rate shown for "Field Technician II - Fieldwork" is provided on the assumption that a maximum of 90 hours of INTERA fieldwork and project management time will be required to complete the tank and piping removal and disposal portion of the project (subcontractor fieldwork time 60 hours total). This time estimate also includes sample trenching and sample collection; however, sample analytical costs are not included in this cost estimate. All INTERA costs will be invoiced on a time and materials basis; therefore a reduction of time or materials taken to complete the project results in a reduction of the final costs of the project.



**Intera Incorporated**  
One Park Square, Suite 820  
6501 Americas Parkway NE  
Albuquerque, NM 87110  
Telephone: 505 246 1600  
Fax: 505 246 2600

RECEIVED

APR 29 2003  
Environmental Bureau  
Oil Conservation Division

April 29, 2003

Ms. Martyne J. Kieling  
Environmental Geologist  
New Mexico Oil Conservation Division  
1220 South Saint Francis Drive  
Santa Fe, NM 87505

**RE: Transmittal of Proposal:**

- **Phase I Investigation and Remediation, Araho, Inc., Former Injection Well Disposal Facility, Lea County, New Mexico**

Ms. Kieling:

INTERA Inc. (INTERA) appreciates the opportunity to provide you with the enclosed proposal. The proposal has been prepared for the investigation and remediation of the Araho, Inc. former injection well disposal facility located in Lea County, New Mexico. We have based our proposal on the scope of work that you provided. Attached to this letter are two copies of our proposal which include a scope of work describing how INTERA will complete the project, a cost estimate, and a photo log. All costs will be invoiced on a time and materials basis, a reduction in time and/or materials taken to complete the project result in a reduction in the final cost to complete the project.

INTERA will perform the proposed work under the terms of the contract between INTERA and the State of New Mexico General Services Department, Contract No. 30-805-09-18056.

Again, we thank you for the opportunity to bid on this project and hope that you will consider INTERA for future projects where the services of a responsive and quality consulting firm are needed. If you have any questions regarding the attached proposal, please do not hesitate to contact us at (505) 246-1600.

Regards,  
**INTERA Inc.**

Joseph Tracy, PG  
Project Manager

Ms. Stacy Sabol  
Sector Manager

**Enclosures:**

- Scope of Work, Cost Proposal, and Photo Log – Phase I Investigation and Remediation, Araho, Inc., Former Injection Well Disposal Facility, Lea County, New Mexico

Joe Tracy.

AMEC 2500	RESPEC 2500	INTERA 2500
<div> <div>\$50,628.50</div> <div>\$2,658</div> <div>\$58,286.50</div> </div> <div> <div>did not use line items</div> <div>for track hoe and backhoe</div> <div>\$9 disposal cost</div> <div>NORM survey cost not listed</div> </div>	<div> <div>\$57,405.00</div> <div>\$3,336.6656</div> <div>\$60,741.67</div> </div> <div> <div>trucking water truck</div> <div>steam cleaner into disposal</div> <div>\$13 disposal cost</div> <div>NORM \$1400</div> <div>\$100 70 tons</div> <div>\$100 20 tons</div> <div><u>90</u></div> </div>	<div> <div>\$57,098.54</div> <div>\$6.55 disposal cost</div> <div>NORM \$1300</div> <div>Scrap metal / \$40</div> <div>Trash \$35</div> <div>Transport. 1950</div> </div>

~~(circled text)~~

Distance of \$3643.13

12 ton \$60  
 48 ton \$55  
 60 ton

\$23 Ton Lealand Change

1 P.O. For \$ 57,200.  
 1 P.O. For \$ 3,900.  
\$61,100

State of New Mexico  
Oil Conservation Division  
Phase I Investigation and Remediation  
Araho, Inc.  
Former Injection Well Disposal Facility,  
Lea County, New Mexico  
Cost Estimate

Task 1. Project Coordination and Fieldwork Preparation					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Principal	0001	100.00	hour	2	\$ 200.00
Project Scientist/Engineer/Manager	0003	67.00	hour	4	\$ 268.00
Staff Scientist/Engineer	0004	52.00	hour	4	\$ 208.00
Field Technician II	0005	50.00	hour	8	\$ 400.00
<b>Subtotal Professional Labor</b>					<b>\$ 1,076.00</b>
<b>SUBTOTAL TASK 1:</b>					<b>\$ 1,076.00</b>
<b>NMGRT @ 5.8125%</b>					<b>\$ 62.54</b>
<b>GRAND TOTAL TASK 1:</b>					<b>\$ 1,138.54</b>
Task 2. Map Buried Utilities (1-Call) and Perform Naturally Occurring Radioactive Materials (NORM) Survey					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Staff Scientist/Engineer	0004	52.00	hour	2	\$ 104.00
Field Technician II - Mobilization	0005	50.00	hour	16	\$ 800.00
Field Technician II	0005	50.00	hour	8	\$ 400.00
Draftsperson II (Utility Mapping)	0007	50.00	hour	8	\$ 400.00
<b>Subtotal Professional Labor</b>					<b>\$ 1,704.00</b>
Expenses	Contract Line Item	Rate	Unit	# of Units	Total
NORM Survey	"At Cost"	1,300.00	each	1	\$ 1,300.00
<b>Subtotal Expenses</b>					<b>\$ 1,300.00</b>
<b>SUBTOTAL TASK 2:</b>					<b>\$ 3,004.00</b>
<b>NMGRT @ 5.8125%</b>					<b>\$ 174.61</b>
<b>GRAND TOTAL TASK 2:</b>					<b>\$ 3,178.61</b>
Task 3. Field Investigation: Tank Removal/Cleaning/Disposal and Piping Removal/Disposal and Sampling/Trenching					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Project Scientist/Engineer/Manager	0003	67.00	hour	6	\$ 402.00
Staff Scientist/Engineer	0004	52.00	hour	8	\$ 416.00
Field Technician II - Fieldwork*	0005	50.00	hour	54	\$ 2,700.00
Field Technician II - Foreman	0005	50.00	hour	54	\$ 2,700.00
Field Technician I - Equipment Operator Trackhoe	0006	35.00	hour	54	\$ 1,890.00
Field Technician I - Equipment Operator Backhoe	0006	25.00	hour	54	\$ 1,350.00
Field Technician I - Laborer	0006	20.00	hour	54	\$ 1,080.00
Field Technician I - Laborer	0006	20.00	hour	54	\$ 1,080.00
Hourly Secretary	0010	30.00	hour	4	\$ 120.00
<b>Subtotal Professional Labor</b>					<b>\$ 11,738.00</b>
Expenses	Contract Line Item	Rate	Unit	# of Units	Total
Disposal of Contaminated Fluids (Product)	0044	6.55	barrel	2,500	\$ 16,375.00
Disposal of Contaminated Fluids (Cleaning Water)	0044	7.85	barrel	360	\$ 2,826.00
Vacuum/Jet Truck	"At Cost"	750.00	day	4	\$ 3,000.00
Trackhoe Heavy Duty	0030	646.00	day	5	\$ 3,230.00
Disposal of Scrap Metals (Tanks) and Piping	"At Cost"	40.00	ton	12	\$ 480.00
Disposal of Miscellaneous Trash	"At Cost"	35.00	ton	48	\$ 1,680.00
Transportation of Materials (Scrap Metals, Piping, Trash) for Disposal	"At Cost"	19.50	ton	60	\$ 1,170.00
Backhoe Medium Duty	0026	157.00	day	5	\$ 785.00
Combustible Gas Indicator (CGI) with O2, H2S, CO2	0012	50.00	day	5	\$ 250.00
Fresh Air/Safety Trailer/Personal Air Samplers	"At Cost"	300.00	day	3	\$ 900.00
Hand-Held GPS Unit	"At Cost"	5.00	day	3	\$ 15.00
Photoionization Detector (PID)	0021	10.00	day	5	\$ 50.00
Mileage	0042	0.25	mile	800	\$ 200.00
Per Diem	0043	65.00	day	7	\$ 455.00
<b>Subtotal Expenses</b>					<b>\$ 31,416.00</b>
<b>SUBTOTAL TASK 3:</b>					<b>\$ 43,154.00</b>
<b>NMGRT @ 5.8125%</b>					<b>\$ 2,508.33</b>
<b>GRAND TOTAL TASK 3:</b>					<b>\$ 45,662.33</b>
Task 4. Preparation of an Final Report					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Principal	0001	100.00	hour	8	\$ 800.00
Project Scientist/Engineer/Manager	0003	67.00	hour	24	\$ 1,608.00
Staff Scientist/Engineer	0004	52.00	hour	40	\$ 2,080.00
Field Technician II	0005	50.00	hour	24	\$ 1,200.00
Draftsperson II (Figures, Cross Sections)	0007	50.00	hour	16	\$ 800.00
Administrator (Technical Editor)	0009	40.00	hour	6	\$ 240.00
<b>Subtotal Professional Labor</b>					<b>\$ 6,728.00</b>
<b>SUBTOTAL TASK 4:</b>					<b>\$ 6,728.00</b>
<b>NMGRT @ 5.8125%</b>					<b>\$ 391.07</b>
<b>GRAND TOTAL TASK 4:</b>					<b>\$ 7,119.07</b>
<b>PROJECT GRAND TOTAL:</b>					<b>\$ 57,098.54</b>

Notes:

NMGRT = New Mexico Gross Receipts Tax

\* The labor rate shown for "Field Technician II - Fieldwork" is provided on the assumption that a maximum of 50 hours of fieldwork will be required to complete the tank and piping removal and disposal portion of the project. This time estimate also includes sample trenching and sample collection, however, sample analytical costs are not included in this cost estimate. All INTERA costs will be invoiced on a time and materials basis; therefore a reduction of time or materials taken to complete the project results in a reduction of the final costs of the project.

**PRICE ESTIMATION - FINAL**  
**Araho, Inc. - OCD Proposal**

**Vendor No. 5187719**  
**PA Number: 308050918056**

**RESPEC Inc.**  
**Commodity Code:**

LN	QTY	RATE	UNIT	COST	DESCRIPTION
*0001	6	\$75.00	Hour	\$450.00	Principal
*0002	18	\$70.00	Hour	\$1,260.00	Senior Scientist
*0003	28	\$63.00	Hour	\$1,764.00	Project Manager/Certified Scientist
*0004	40	\$50.00	Hour	\$2,000.00	Staff Scientist
*0005	80	\$35.00	Hour	\$2,800.00	Field Technician II
*0006		\$30.00	Hour	\$0.00	Field Technician I
*0007	8	\$35.00	Hour	\$280.00	Draftsperson II
*0008		\$25.00	Hour	\$0.00	Draftsperson I
*0009	4	\$32.00	Hour	\$128.00	Administrator
*0010		\$30.00	Hour	\$0.00	Secretary
*0011		\$20.00	Hour	\$0.00	Clerk
*0021	5	\$5.00	Day	\$25.00	PID
*0025		\$120.00	Day	\$0.00	Backhoe 1
*0026	6	\$157.00	Day	\$942.00	Backhoe 2
*0030	3	\$600.00	Day	\$1,800.00	Trackhoe 3
*0042	2300	\$0.32	Mile	\$736.00	Personal Vehicle Mileage
*0043	12	\$65.00	Each	\$780.00	Per Diem/Overnight
*0044	2500	\$13.00	50 gal/bbl	\$32,500.00	Disposal/Recycling of Contaminated Fluids
*0046	18	\$80.00	Hour	\$1,440.00	Site Survey (NORM)
*0052		\$50.00	Day	\$0.00	Water Truck -
*0053	6	\$50.00	Day	\$300.00	Pick up Truck -
*0054		\$80.00	Day	\$0.00	Steam cleaner
	3	\$400.00	day	\$1,200.00	Shear - at cost
	70	\$100.00	ton	\$7,000.00	Tank & Pipe Disposal/Recycling - at cost
	20	\$100.00	ton	\$2,000.00	Trash Disposal - at cost

**TOTAL = \$57,405.00 (a) X 5.8125% (NMGRT) \$60,741.67**

**NOTE: LABORATORY COSTS ARE NOT INCLUDED**

RECEIVED

RSI (ALO)-P-2089



An Integrated Consulting and Services Company

APR 29 2003  
Environmental Bureau  
Oil Conservation Division

4775 Indian School Road NE, Suite 300  
Albuquerque, New Mexico 87110-3927  
Phone: 505.268.2661 Fax: 505.268.0040

<http://www.respec.com>

April 29, 2003

Martyne J. Kieling  
New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Work plan for Phase I Investigation and Remediation at the Araho Inc., Former Injection Well Disposal Facility located in Lea County, New Mexico**

Dear Ms. Kieling:

RESPEC is pleased to submit the following work plan and cost estimate for the above referenced site. All work for will be conducted in accordance with all pertinent state and federal regulations. A Professional Geologist and NMED Certified Scientist will have direct supervisory control over the project. A minimum of 96 hours advance notice will be given to the Oil Conservation Division (OCD) Project Manager prior to starting work.

RESPEC personnel visited the site on April 14, 2003 in order to assess site conditions, estimate disposal tonnages, and collect paint from the above ground tanks (ASTs) for lead screening.

The scope of work is organized into the following tasks:

- Task 1 – Work plan preparation;
- Task 2 – Health and safety plan preparation;
- Task 3 – Remove and dispose of tank contents;
- Task 4 – Perform NORM survey
- Task 5 – Demolish tanks with shear
- Task 6 – Remove all piping, equipment, tanks, and trash for  
Off-site disposal or recycling;
- Task 7 – Investigate extent of contamination beneath tank footprints;
- Task 8 – Investigate extent of chloride contamination in surface soils;
- Task 9 – Prepare and submit Phase I Investigation Report

### **TASK 1 - WORK PLAN PREPARATION**

This task involves the preparation of the work plan, cost estimates, site reconnaissance, interaction with all subcontractors and the OCD Project Manager.



## **TASK 2 - HEALTH AND SAFETY PLAN PREPARATION**

A site-specific health and safety plan (HASP) will be completed before fieldwork commences. The HASP will include, but not be limited to the following: a site information summary, a list of key personnel on-site and their responsibilities, site hazards, emergency information, job hazard assessment, decontamination and disposal, employee training, and emergency procedures.

The New Mexico One Call System will be contacted in order to locate, mark and map all buried pipelines and utilities at the site.

## **TASK 3 – REMOVE AND DISPOSE OF TANK CONTENTS**

A vacuum truck and water truck (if necessary to pump hot water through the tanks) will be used to pump out an estimated 1600 barrels of exempt oil field waste for recycling. The fluids will be recycled at an OCD approved facility.

## **TASK 4 – PERFORM NORM SURVEY**

RESPEC will perform a naturally occurring radioactive materials (NORM) survey of all pipes, tanks and miscellaneous equipment prior to disposal/recycling. This task will be ongoing throughout the demolition and disposal activities at the site. All empty tanks will be inspected and surveyed internally prior to demolition and externally before disposal/recycling. A registered NORM surveyor will perform the survey in accordance to 19.15.9.714 NMAC and 20.3.14 NMAC.

## **TASK 5 – DEMOLISH TANKS WITH SHEAR**

After the fluids have been removed and NORM survey completed, the tanks (all eight as specified in the scope of work) will be cut apart using a track hoe with attached shear. It is estimated that it will take approximately three days to complete this task. It should be noted that all personnel, other than the track hoe operator, will not be permitted on-site during the shearing operation, with an exclusion zone established around the entire site. (details to be included in the site HASP).

## **TASK 6 – REMOVE ALL PIPING, EQUIPMENT, TANKS AND TRASH FOR OFF-SITE DISPOSAL OR RECYCLING**

Pursuant to the scope of work, all trash including: barrels, buckets, batteries, pipes, electrical meters, cut up ASTs, etc. will be removed from the site for either disposal or recycling.

Any testing that is required prior to disposal will be performed on a contingency basis, with all laboratory expenses billed to a separate purchase agreement with the OCD (Trace Analysis or Pinnacle Laboratory). It should also be noted that all piping and other miscellaneous items will be staged for the NORM survey prior to removal from the site.

#### **TASK 7 – INVESTIGATE THE EXTENT OF CONTAMINATION UNDER THE TANK FOOTPRINTS**

The horizontal and vertical extent of soil contamination beneath the tank footprints will be determined by trenching with a back hoe. Field personnel will evaluate, describe and record lithology, odor, and all other observations pertinent to the geology of the site and contamination observed under and surrounding the ASTs. Grab samples will be field screened for total ionizable vapor concentrations using a Photo Ionization Detector (PID) unit in a manner consistent with the NMED Soil/Water Sampling and Disposal Guidelines (NMED, 2000). All results will be recorded in a field notebook.

Samples will be collected from each trench (both the sidewall and bottom). The soil samples will be submitted to the laboratory (Trace Analysis or Pinnacle) for analysis by EPA Method 8021 (BTEX), 418.1 (TPH) and 300 (chloride), utilizing extraction techniques consistent with the NMED Soil/Water Sampling and Disposal Guidelines (NMED, 2000). Due to the presence of lead paint on the ASTs, total lead will be quantified in the soil samples by EPA Method 6020. All proper chain-of-custody procedures will be followed.

All open trenches will be backfilled and compacted when the soil sampling has been completed.

#### **TASK 8 – INVESTIGATE THE EXTENT OF CHLORIDE CONTAMINATION IN SURFACE SOILS**

In order to assess the extent of chloride contamination in surface soil at the site, a grid will be established at the site, which will result in the collection of 10, six inch composite samples. It is also recommended that one additional sample be collected near the site in order to establish a back ground level for chloride in the immediate vicinity. The samples will be collected from the surface to six inches below surface grade (BSG) with a hand auger and placed in 16 ounce glass jars. The samples will be shipped to the laboratory for analysis by EPA Method 300 (chloride). All proper chain-of-custody procedures will be followed.

## **TASK 9 – PREPARE AND SUBMIT PHASE I INVESTIGATION REPORT**

Following completion of fieldwork, a Phase I Investigation Report will be prepared and submitted to the OCD Project Manager. The report will include, but not be limited to the following:

- A site map showing all buried pipelines and electrical hazards;
- The NORM survey results;
- Volume of material removed from the tanks, manifests, disposal/reclamation company used and the volume of recoverable hydrocarbons retrieved;
- Tank reclamation or scrap iron facility used;
- Volume/weight of trash removed and the disposal/recycling company used;
- Tabulation of all analytical data gathered during the investigation;
- A map, or maps, with cross-sections showing the location, depth and concentrations of the remaining soil contamination;
- The Phase II remediation techniques and recommendations pursuant to the scope of work, section 7, parts a, b and c.

### **ASSUMPTIONS**

- Excavation areas will be free of underground utilities;
- Excavated areas will be finished with backfill;
- Access will be during normal working hours;
- Trenching under tanks or overflow will be limited to one trench across the diameter of each tank/overflow to a depth of 2.5 feet, and will be completed in one working day. Additional trenching will be available on a contingency basis;
- All waste at the site is considered exempt oil field waste. If, during the course of the investigation, the waste becomes classified as non-exempt then additional testing (TCLP and RCI to acquire a C-138 Oil Commission Permit) and disposal fees will be required;
- All laboratory fees will be billed under a separate price agreement between the OCD and the laboratories

### **INSURANCE**

RESPEC maintains at its own expense the following insurance plans that meet or exceed the services to be performed under the terms of this work plan:

- Workers' compensation insurance-statutory.
- Employer's liability insurance of \$500,000 per occurrence, \$1,000,000 aggregate.
- Comprehensive general liability insurance of \$1,000,000 per occurrence, \$1,000,000 aggregate.

- Vehicle liability insurance of \$500,000 per occurrence (property damage and bodily injury combined).
- RESPEC will provide the owner/operator (O/O), within twenty (20) working days of the contract signing, a certificate of insurance naming the O/O as the certificate holder.

Respectfully submitted by:

A handwritten signature in dark ink, appearing to read 'John R. Bunch', written over a horizontal line.

John R. Bunch, P.G.  
Project Geologist  
C.S. No. 194

# **SCOPE OF WORK**

**STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION**

**PHASE I INVESTIGATION AND REMEDIATION  
ARAHO INC.  
FORMER INJECTION WELL DISPOSAL FACILITY  
LEA COUNTY, NEW MEXICO**

**APRIL 3, 2003**

## I. INTRODUCTION

### A. PURPOSE

The State of New Mexico Oil Conservation Division of the Energy, Minerals and Natural Resources Department (OCD) is conducting a Phase I investigation and cleanup at the Araho, Inc. former injection well disposal facility. The New Mexico State Highway and Transportation Department, Site Maintenance & Monitoring, Purchase Agreement 30-805-09-18056 will be used on this job.

### B. SUMMARY

The contractor shall perform the work necessary to conduct a Phase I cleanup and investigation to include the removal of the tank fluids, tanks, equipment, pipe and trash; and determine the nature extent of subsurface soil contamination. The Contractor shall also compile volume and cost estimates with regards to the soil contamination and prepare a cost effective Phase II investigation and cleanup proposal that can be implemented at this location. This site is suitable for on site composting. Araho, Inc. is located in the **NE/4 SE/4 of Section 1, Township 17 South, Range 36 East, NMPM, Lea County, New Mexico** (see figure 1, and photos).

### C. PROCUREMENT MANAGER

The OCD has designated a Procurement Manager who is responsible for the conduct of this procurement whose name, address and telephone number are listed below.

Martyne J. Kieling  
New Mexico Oil Conservation Division  
1220 South Saint Francis Drive  
Santa Fe, New Mexico 87505  
Phone: 505-476-3488  
Fax: 505-476-3462  
e-mail: mkieling@state.nm.us

All deliveries via express carrier should be addressed as above. Any inquiries or requests regarding this procurement should be submitted to the Procurement Manager in writing. Other state employees do not have the authority to respond on behalf of the Agency.

### D. BACK GROUND INFORMATION

Araho Inc. operated from 1974 to 1993 as an injection well disposal facility. The Araho site is located in the NE/4 SE/4 of Section 1, Township 17 South, Range 36 East, NMPM, Lea County, New Mexico. The surface is owned by the city of Lovington. The OCD is in the process of obtaining an access agreement with the city of Lovington in order for contract work to be performed. The facility has a large lined waste holding pit. This pit is not included in the OCD Phase I investigation and cleanup. However, Navajo Refining and their contractor will be managing the cleanup of the pit portion of the facility. The two portions of the project may be occurring at the same time or they may be staggered.

Depth to ground water at the site is estimated to be approximately 80 feet. The local ground water gradient is estimated to be toward the southeast. The OCD recommends that the contract vendors visit the site prior to submitting an estimate. The following table lists the major items located at the site and the estimated volume.

ITEM	SIZE / VOLUME ESTIMATES
Facility Dimensions	293' x 410
Lined Pit 125' x 120' x 4'	Not included in this estimate
Outside Pit Berm 145' x 145' x 4'	Not included in this estimate
3000 bbl tank	1000 bbls of material
210 bbl tank	50 bbls of material
750 bbl tank	250 bbls of material
500 bbl tank	empty
500 bbl tank	100 bbls of material
200 bbl tank open top fiberglass	200 bbls and overflowing
200 bbl tank	empty
750 bbl tank	empty
pipe	1000 feet
55 gal drum	15 drums
Assorted trash	volume not assessed

## II. TECHNICAL SPECIFICATIONS

The contractor shall:

1. Perform a One-Call and map the buried pipelines and all electrical hazards on site.
2. Perform a naturally occurring radioactive materials (NORM) survey of all pipes and equipment prior to disposal. A registered NORM surveyor must perform NORM surveys. The Regulations that pertain to NORM are 19.15.9.714 NMAC and 20.3.14 NMAC. The New Mexico Environment Department Radiation Control Bureau can be contacted for additional information regarding registration and licenses.

3. Remove material within the tanks for recycling, estimated to be 1600 bbls. Remove all tanks for recycling or disposal (see photos and table on the preceding page). The material and tanks must be sent to an OCD-approved facility and must be disposed/recycled in accordance with the rules of the OCD.
4. Remove trash at the site to include barrels, buckets, batteries, pipes (buried and surface), electrical meters, and other trash items. Perform any testing that may be necessary prior to disposal. *All samples taken during Phase I of the investigation will be sent to one of the laboratories currently covered by a separate purchase agreement with the OCD (Trace Analysis or Pinnacle).*
5. Investigate nature and extent of contamination below the tank footprints if there is visual evidence that the tank leaked or overflowed.
  - a. Investigate the extent of contamination beneath the tank footprints by trenching with a backhoe. Field photo ionization detector (PID) measurements will be used as a screening tool. Samples will be taken from each trench and will be sent for laboratory TPH, BTEX and chloride analysis. Back fill open trenches when finished.
6. Investigate the extent of chloride contamination in the surface soils at the site. A grid will be marked off on the site and 10, six (6)-inch compost samples will be taken.
7. Provide Estimates on the following Phase II remediation techniques.
  - a. Estimate the volume and cost to remove the contaminated material based on the trenching and sample analysis. Contaminated soil must be sent to an OCD-approved landfarm for reclamation. Estimate the cost for clean fill. Clean fill should be backhauled from the landfarm to help decrease trucking charges.
  - b. Estimate the volume and cost to excavate and construct compost piles on site. The contaminated material should be mixed 4:1 with manure and enough water should be added to keep the piles moist. The piles should be turned every four (4) weeks for at least four (4) turning events. Estimate the cost to backfill and compact the excavations and contour the site with the remediated composted material on site.



- c. Propose any additional remediation techniques that would be cost effective based on the data gathered during Phase I.
- 8. Prepare and deliver to the OCD a final report that contains:
  - a. A site map showing all buried pipelines and electrical hazards.
  - b. NORM survey results.
  - c. Volume of material removed from the tanks, disposal/reclamation company used and the volume of recoverable hydrocarbons retrieved.
  - d. Tank reclamation or scrap iron facility used.
  - e. Volume/weight of trash removed and the disposal/recycling company used
  - f. Results of all analytical data gathered.
  - g. A map/cross-sections showing the location, depth and concentrations of the remaining soil contamination.
  - h. Phase II remediation techniques/proposals with estimates as outlined in 7 a, b, and c above.

### III. SCHEDULE

#### A. INITIATION OF WORK

The investigation and cleanup shall be scheduled to commence as soon as possible after OCD approval of a contractor and purchase document for the investigation.

#### B. REPORT SUBMISSION

A report on the investigation and cleanup shall be submitted to the OCD within 60 days of completion of the field sampling activities.

### IV. MERGER

This Agreement, and attachments thereto, together with NMSHTD Price Agreement No. 30-805-09-18056, constitutes the entire agreement between the parties hereto and all previous agreements, conditions, promises, inducements and understandings shall be deemed to have merged in this Agreement.

V. ESTIMATE

- A. Provide information regarding how you plan to implement the scope of work along with a cost estimate by April 30, 2003. For each item in the estimate, reference the corresponding individual line item from the contract. If there are additional items that do not fall under any line item please list the item as "at cost". Any Items billed at cost must be supported with receipts at time of invoicing. Please note that the New Mexico Gross Receipts Tax is currently 5.25 % for Lea County and for the Lovington Industrial Park. The rates listed in the table below are those listed in the Purchase Agreement 30-805-09-18056 for Vendor 3) Respec, Inc.

LN	QTY	RATE	UNIT	COST	DESCRIPTION
*0001	6	\$75.00	Hour	\$450.00	Principal
*0002	18	\$70.00	Hour	\$1,260.00	Senior Scientist
*0003	20	\$63.00	Hour	\$1,260.00	Project Manager/Certified Scientist
*0004	40	\$50.00	Hour	\$2,000.00	Staff Scientist
*0005	66	\$35.00	Hour	\$2,310.00	Field Technician II
*0006		\$30.00	Hour	\$0.00	Field Technician I
*0007	8	\$35.00	Hour	\$280.00	Draftsperson II
*0008		\$25.00	Hour	\$0.00	Draftsperson I
*0009	4	\$32.00	Hour	\$128.00	Administrator
*0010		\$30.00	Hour	\$0.00	Secretary
*0011		\$20.00	Hour	\$0.00	Clerk
*0021	5	\$5.00	Day	\$25.00	PID
*0025		\$120.00	Day	\$0.00	Backhoe 1
*0026	6	\$157.00	Day	\$942.00	Backhoe 2
*0030	3	\$600.00	Day	\$1,800.00	Trackhoe 3
*0042	2300	\$0.32	Mile	\$736.00	Personal Vehicle Mileage
*0043	12	\$65.00	Each	\$780.00	Per Diem/Overnight
*0044	1600	\$13.00	50 gal/bbl	\$20,800.00	Disposal of Contaminated Fluids
*0046	18	\$80.00	Hour	\$1,440.00	Site Survey (NORM)
*0052		\$50.00	Day	\$0.00	Water Truck -
*0053	6	\$50.00	Day	\$300.00	Pick up Truck -
*0054		\$80.00	Day	\$0.00	Steam cleaner
	3	\$400.00	day	\$1,200.00	Shear - at cost
	70	\$100.00	ton	\$7,000.00	Tank & Pipe Disposal/Recycling - at cost
	20	\$100.00	ton	\$2,000.00	Trash Disposal - at cost

**TOTAL = \$44,711.00 (a) X 5.25% (NMGRT)**

**NOTE: LABORATORY COSTS ARE NOT INCLUDED**

The New Mexico State Highway and Transportation Department, Site Maintenance & Monitoring, Purchase Agreement 30-805-09-18056 Contract vendor 3) Respec, Inc., 4775 Indian School Rd. NE, Suite 300, Albuquerque, NM 87110, Telephone 1-505-268-2661.

Accepted: RESPEC, INC.

SIGNATURE John R. [Signature] TITAL: Project Geologist DATE: 4.29.3

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APR 30 2003

Environmental Bureau  
Oil Conservation Division

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AMEC Proposal No. PF03-0401

April 29, 2003  
Ms. Martyne Kieling  
New Mexico Oil Conservation Division  
1220 S. Saint Frances  
Santa Fe, New Mexico 87505

**RE: Cost Estimate for the Phase I Investigation and Remediation for the Araho Inc. Former Injection Well Disposal Facility in Lea County, New Mexico**

Dear Ms. Kieling:

AMEC (AMEC Earth & Environmental) is pleased to submit this cost estimate for the Phase I Investigation and Remediation for the Araho Inc. Former Injection Well Disposal Facility in Lea County, New Mexico.

AMEC proposes to complete this project in accordance with purchase agreement number 308050918056 between the State of New Mexico and AMEC Earth and Environmental, Inc. This project will also be performed in accordance to the pricing and scope of work presented herein.

**SCOPE OF WORK**

On April 3, 2003, Ms. Martyne Kieling with the State of New Mexico, Energy Minerals and Natural Resources Department, Oil Conservation Division (OCD) requested a cost estimate outlined in the Scope of Work for the Phase I Investigation and Remediation for the Araho Inc. Former Injection Well Disposal Facility in Lea County, New Mexico.

The Scope of Work will include the following:

1. Perform a One-Call to identify and mark buried utilities on the site.
2. Perform a Naturally Occurring Radioactive Materials (NORM) survey of all pipes and equipment prior to disposal to be completed by a registered NORM surveyor.
3. Remove solids and liquids from within each tank for recycling at an approved OCD facility. AMEC estimates that approximately 2,500 bbls of materials were located within the tanks at the time of our site visit on April 17, 2003.
4. Remove refuse that includes barrels, buckets, batteries, pipes, electrical meters and other refuse. Perform sampling and testing as required prior to disposal.
5. Investigate the nature and extent of contamination below tank footprints by trenching with a backhoe. AMEC will use a photo ionization detector (PID) to screen soils and will obtain soil samples for submittal to the OCD approved laboratory for analysis of TPH, BTEX and Chlorides. The trenches will be backfilled when this phase of the investigation is complete. AMEC will attempt to use a small backhoe (excavate up to 12 feet) to complete the trenching investigation. Site conditions (caliche) may require the use of a large trackhoe to



- penetrate into the subsurface to adequately define the extent of contamination. AMEC has provided pricing for each option.
6. Investigate the extent of Chloride contamination in the surface soils (up to six inches deep at the site). AMEC will mark the site into 10 grid areas. Within each of the 10 areas, a composite sample will be obtained from four, four-ounce aliquots. The composite sample will be mixed thoroughly in a plastic bag and one four-ounce composite sample will be obtained for submittal to the OCD approved laboratory for analysis of Chlorides.
  7. AMEC will provide estimates for completing Phase II remediation of the site as follows:
    - a. Estimate volume and cost to remove the contaminated material based on the Phase I Investigation results, removal of soils to an approved OCD reclamation facility and backfilling excavations with clean soil.
    - b. Estimate the volume and cost to excavate and construct compost piles on site. The contaminated soils will be mixed in 4:1 ratio with manure, watered or moistened adequately and turned or aerated every four weeks, for four turning events. Cost will include backfilling excavations after approval from the OCD.
    - c. Provide alternative remediation techniques that would be cost effective based on the data gathered during the Phase I Investigation.
  8. Prepare and deliver a report to the OCD that includes the following:
    - a. A site map showing buried pipelines and electrical hazards
    - b. NORM survey results
    - c. Volume of material removed from the tanks, disposal/reclamation company used and the volume of recoverable hydrocarbons retrieved.
    - d. Tank reclamation or scrap iron facility used.
    - e. Volume/weight of trash removed and the disposal company used.
    - f. Results of analytical data gathered.
    - g. A map/cross-sections showing the location, depth and concentrations of the remaining soil contamination
    - h. Phase II remediation techniques/proposals with estimates as outlined above.
    - i. Deliver the report to the OCD within 60 days of completion of field sampling activities.

AMEC will utilize key subcontractors to accomplish much of the on-site physical clean up and removal of materials from the site. An experienced AMEC project manager will be present during all site activities outlined for the Phase I Investigation. AMEC will perform aspects of the project involving site evaluations, characterization, and estimates and reporting.



### COST ESTIMATE

AMEC estimates costs to complete this project for the ODC on a turnkey basis listed as follows:

LN	QTY	RATE	UNIT	COST	DESCRIPTION
*0001	4	\$ 100.00	Hour	\$400.00	Principal
*0002	50	\$ 72.00	Hour	\$3,600.00	Senior Scientist
*0003	50	\$ 59.00	Hour	\$2,950.00	Project Manager/Certified Scientist
*0004	100	\$ 49.00	Hour	\$4,900.00	Staff Scientist
*0010	10	\$ 22.00	Hour	\$220.00	Secretary
*0021	5	\$ 10.00	Day	\$50.00	PID
*0042	1500	\$ 0.25	Mile	\$375.00	Personal Vehicle Mileage
*0043	15	\$ 68.00	Each	\$1,020.00	Per Diem/Overnight
*0053	15	\$ 43.00	Day	\$645.00	Pick up Truck -
				\$0.00	<b>Subcontracted Services - At Cost</b>
	2500	\$ 9.00	bbl	\$22,500.00	Clean Tanks, remove dispose solids/liquids
	1	\$5,293.50	LS	\$5,293.50	Demo Tanks and recycle/dispose
	1	\$5,900.00	LS	\$5,900.00	Surface Cleanup - piping, trash, etc.
	15	\$ 125.00	Hour	\$1,875.00	Large Trackhoe/Operator \$125/Hour
	15	\$ 60.00	Hour	\$900.00	Small Backhoe/Operator \$60/Hour
<b>Subtotal</b>				\$50,628.50	
<b>(a) X 5.25% (NMGRT) =</b>				\$ 2,658.00	
<b>Estimated Project Total:</b>				\$53,286.50	

Project cost will vary pending options or combinations of options (backhoe vs. trackhoe) in addition to the total amount of time and effort to complete the project.

### ASSUMPTIONS AND CLARIFICATIONS

1. AMEC assumes that the New Mexico "One Call" system will identify all active gas, electric and other utility lines located within the project area. AMEC will not be responsible for damage to any lines that are not properly identified or marked.
2. This proposal shall become part of the contract for services to be provided.
3. AMEC assumes that any and all of these materials associated with this project are RCRA exempt oilfield wastes that can be transported to an OCD approved facility for recycling or disposal. AMEC assumes no liability associated with the ultimate fate of any materials associated with this project.
4. The OCD will provide authorized access to the site for AMEC and AMEC's selected subcontractors.
5. NORM disposal pricing will be provided at cost upon determination of volumes that may be required for transport and disposal.
6. AMEC will not take ownership of special or hazardous waste that may be encountered during the course of this project.



7. AMEC assumes all work can be performed in Level D personal protective equipment (i.e., hard hat, steel-toed boots, and safety glasses).

AMEC appreciates the opportunity to provide this cost estimate to the OCD for the Phase I Investigation and Remediation for the Araho Inc. Former Injection Well Disposal Facility in Lea County, New Mexico. Please call Don Fernald at (505) 327-7928 or Mark Ehrlich at (915) 686-1978 if you need additional information, or if we can be of further assistance.

Sincerely,  
**AMEC EARTH & ENVIRONMENTAL, INC.**

A handwritten signature in black ink, appearing to read 'Don Fernald', is written over a horizontal line.

Don Fernald  
Program Manager



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

OIL CONSERVATION DIVISION  
RECEIVED

'94 JUN 9 AM 8 50

BRUCE KING  
GOVERNOR

POST OFFICE BOX 1980  
HOBBS, NEW MEXICO 88241-1980  
(505) 393-6161

**NMOCD Inter-Correspondence**

**To:** Jerry Sexton-District I Supervisor

**From:** Wayne Price-Environmental Engineer District I

**Date:** June 8, 1994

**Reference:** Request from Jerry Sexton for recommendations on meeting held June 7, 1994-(minutes attached)

**Subject:** Araho Class I well site "pit closure"

**Comments:** Per your request I am making a recommendation that Bill Olson of our NMOCD Environmental Bureau take the lead on this project. I base this recommendation on a telephone conversation with Roger Anderson our Environmental Bureau Chief.

**cc:** Bill LeMay-NMOCD Director  
Roger Anderson-Environmental Bureau Chief

Attachments-1





INTER-OFFICE MEMO

To file: Araho Inc.

Date: June 7, 1994

Time: 9:30 am

Telephone call: \_\_\_\_\_ Meeting: XX Other: \_\_\_\_\_

Person called or attending:

Wayne Price, Jerry Sexton- NMOCD

Mrs. Dorothy Runnels-Owner of Araho Inc.

Steve & Cindy Pearce-representing Lea Fishing Tools

REFERENCE: Minutes of Meeting held in Jerry Sexton's office.

Subject: Araho Pit Closure located at the "old" Araho class  
I disposal well-

Comments: Steve Pearce, a close friend of Mrs. Runnels is helping her as a friend to properly close the pit. His understanding of the oil business and apparently an association through another disposal well where he had worked on a well and became the operator of that well due to a possible default by Mrs. Runnels prompted him to assist her.

They presented a verbal plan of action where they want to remove the liquids from the pit and dispose of at the Araho SDW # 1. The remaining material would then be bioremediated. They apparently want to do all of this in house.

They ask me if this plan would be ok! I informed them that there would be a number of environmental hoops to jump through in order to make this determination. I told them that the exempt status of the pit would have to be investigated and maybe some analytical work such as "metals" might have to be run. Jerry indicated that this has already been done and it is in some file either here or Santa Fe.

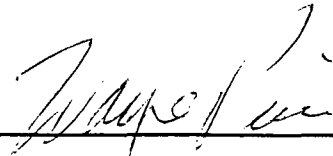
Mrs. Runnels said that the NMED has already signed off on it. She gave me a copy of a letter April 26, 1991 to her from the NMED. ( see attachments)

It was pointed out during the meeting that the pit is lined with a heavy liner and is still in good shape.

It was pointed out in the meeting that if they could do it this way then everyone would benefit, the site would be cleaned up at the expense of Mrs. Runnels. If large demands are placed on this project, Mrs. Runnels was afraid her creditors might force her out of business and the site would be left to the state to clean up. She sincerely wants to do the right thing and abide by the environmental rules and regulations.

The meeting was concluded by indicating that the Santa Fe NMOCD Environmental Group would have to be involved.

Wayne Price

A handwritten signature in dark ink, appearing to read 'Wayne Price', is written over a horizontal line.



BRUCE KING  
GOVERNOR

April 26, 1991

State of New Mexico  
**ENVIRONMENT DEPARTMENT**  
Harold Runnels Building  
1190 St. Francis Drive, P.O. Box 26110  
Santa Fe, New Mexico 87502  
(505) 827-2850

JUDITH M. ESPINOSA  
SECRETARY

RON CURRY  
DEPUTY SECRETARY

Mrs. Dorothy Runnels  
President  
Araho, Inc.  
1621 S. Main  
Lovington, NM 88260

**RECEIVED**  
JUN 07 1994  
OLD RUNNELS  
OFFICE

Dear Mrs. Runnels:

On February 15, 1990, the New Mexico Environmental Improvement Division, now the New Mexico Environment Department (NMED), conducted a hazardous waste inspection of your facility, Araho, Inc. This letter is NMED's notice that, based on our review of the information received, Araho has not violated the hazardous waste regulations.

However, with new changes in the hazardous waste regulations, EID must inform you that you may not dispose of any refinery wastes (e.g. K049 and K051) in your wells. These wastes were prohibited from land disposal on August 8, 1990 (for wastewaters; for non-wastewaters the effective prohibition date is November 8, 1990).

If you have any questions concerning this information, please call me at 827-2928.

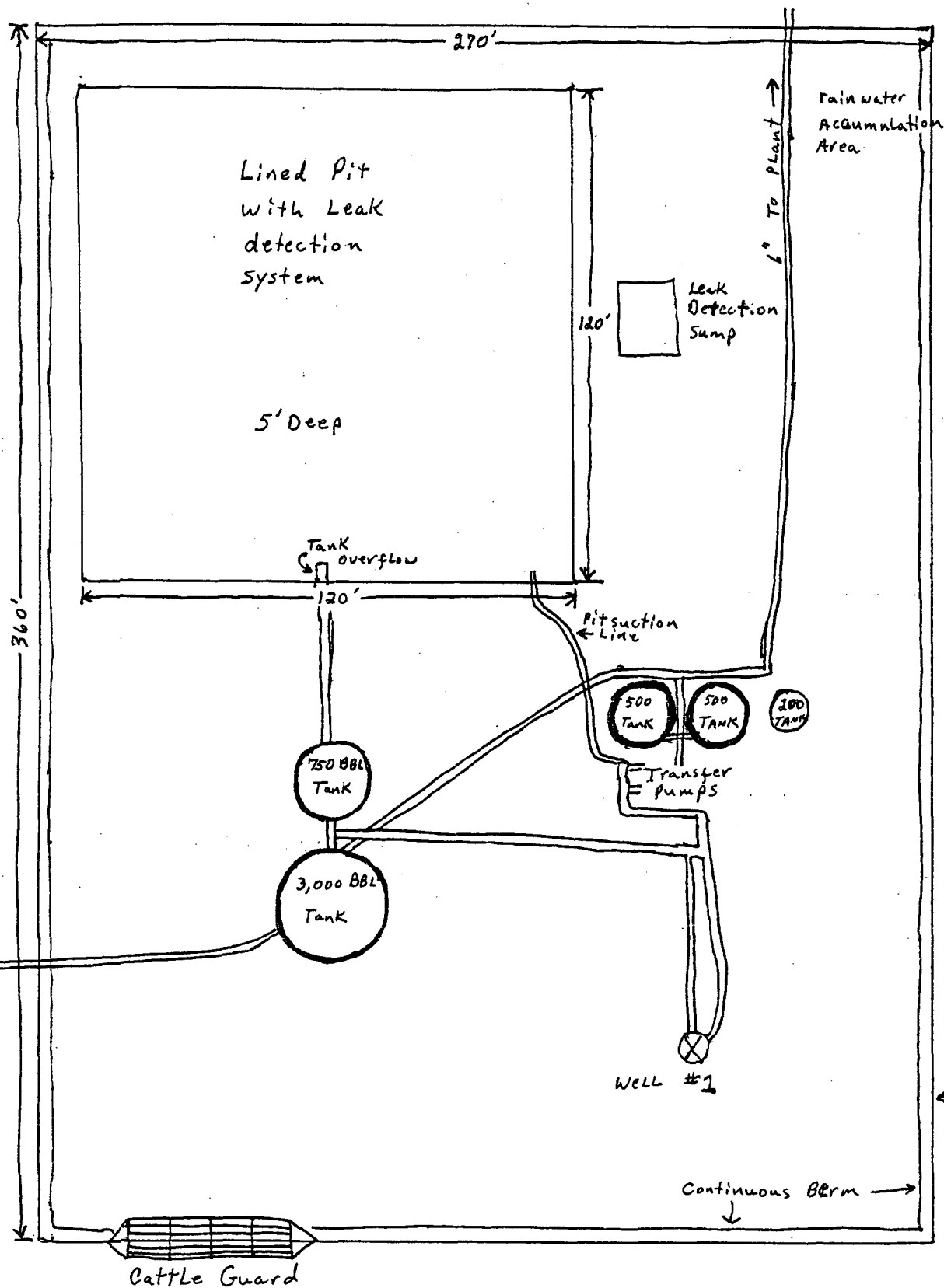
Sincerely,

*Patricia A. Ringgenberg*

Patricia A. Ringgenberg  
Water Resource Specialist  
Hazardous and Radioactive Waste Bureau

# ARAHO INC. L.C. STATE # 1

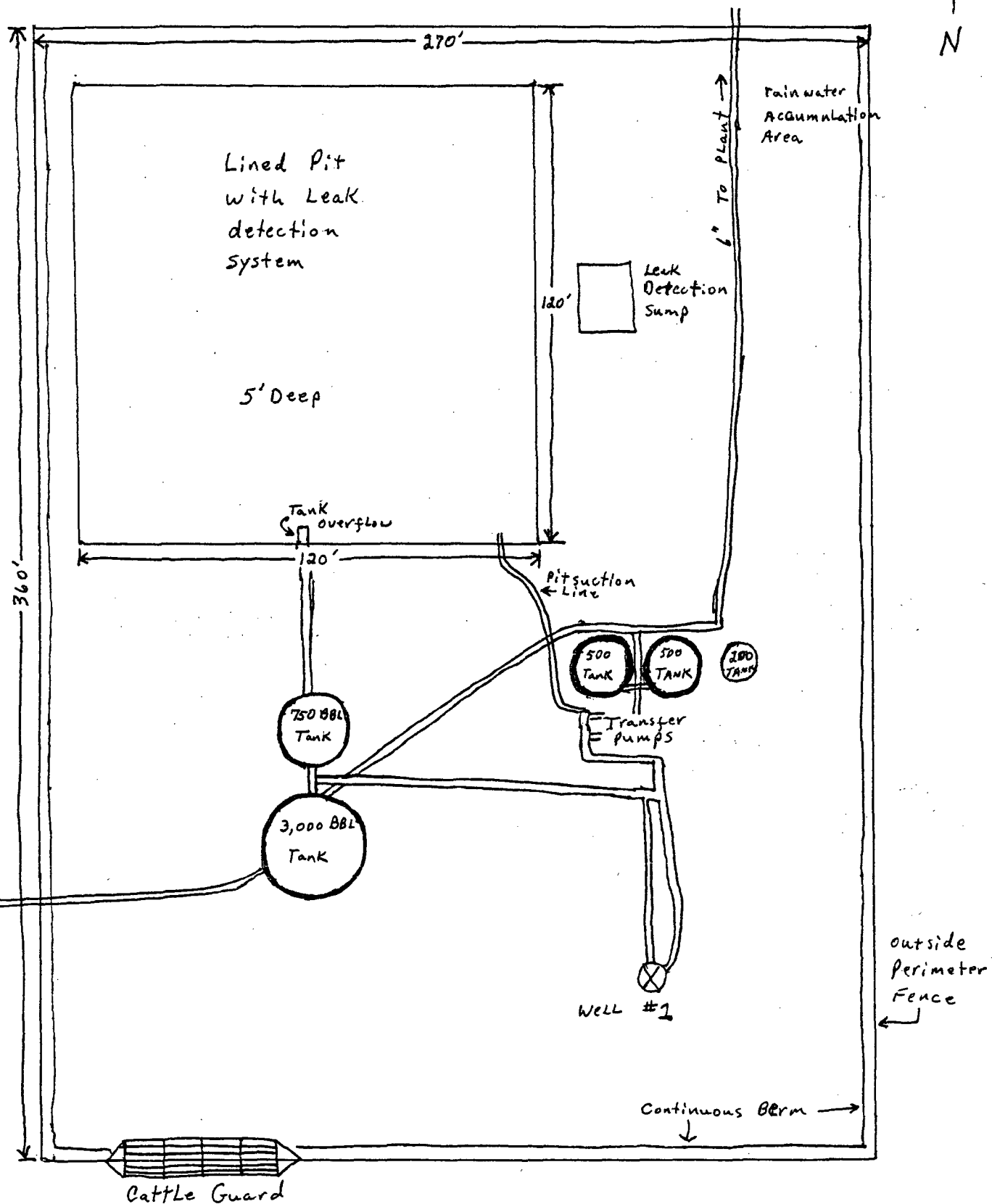
4  
 N



Tanks and lines are in place. Pits are in place, but do not have leak detection system installed. Application for pit reconstruction will be forthcoming.

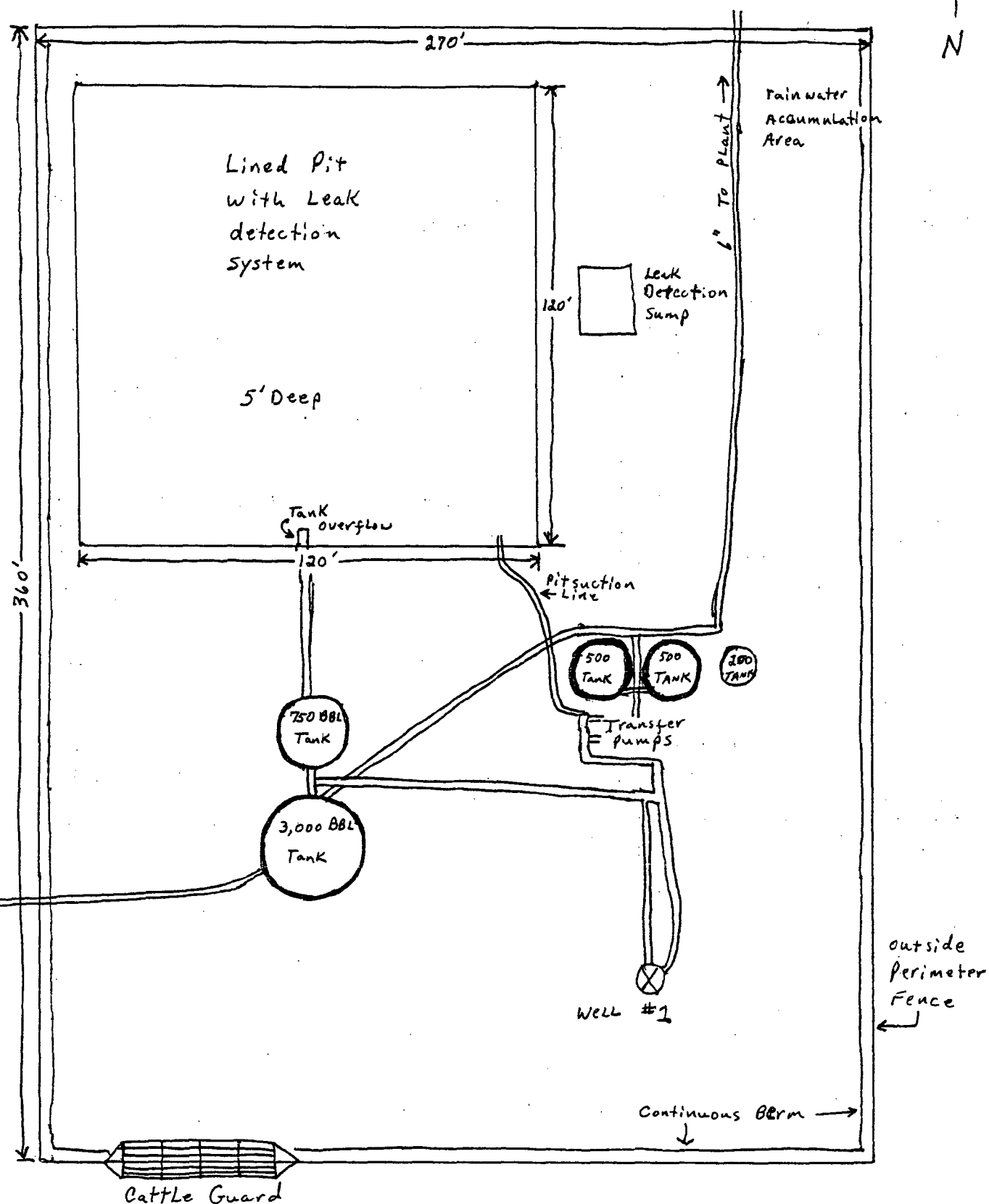
# ARAHO INC. L.C. STATE # 1

N

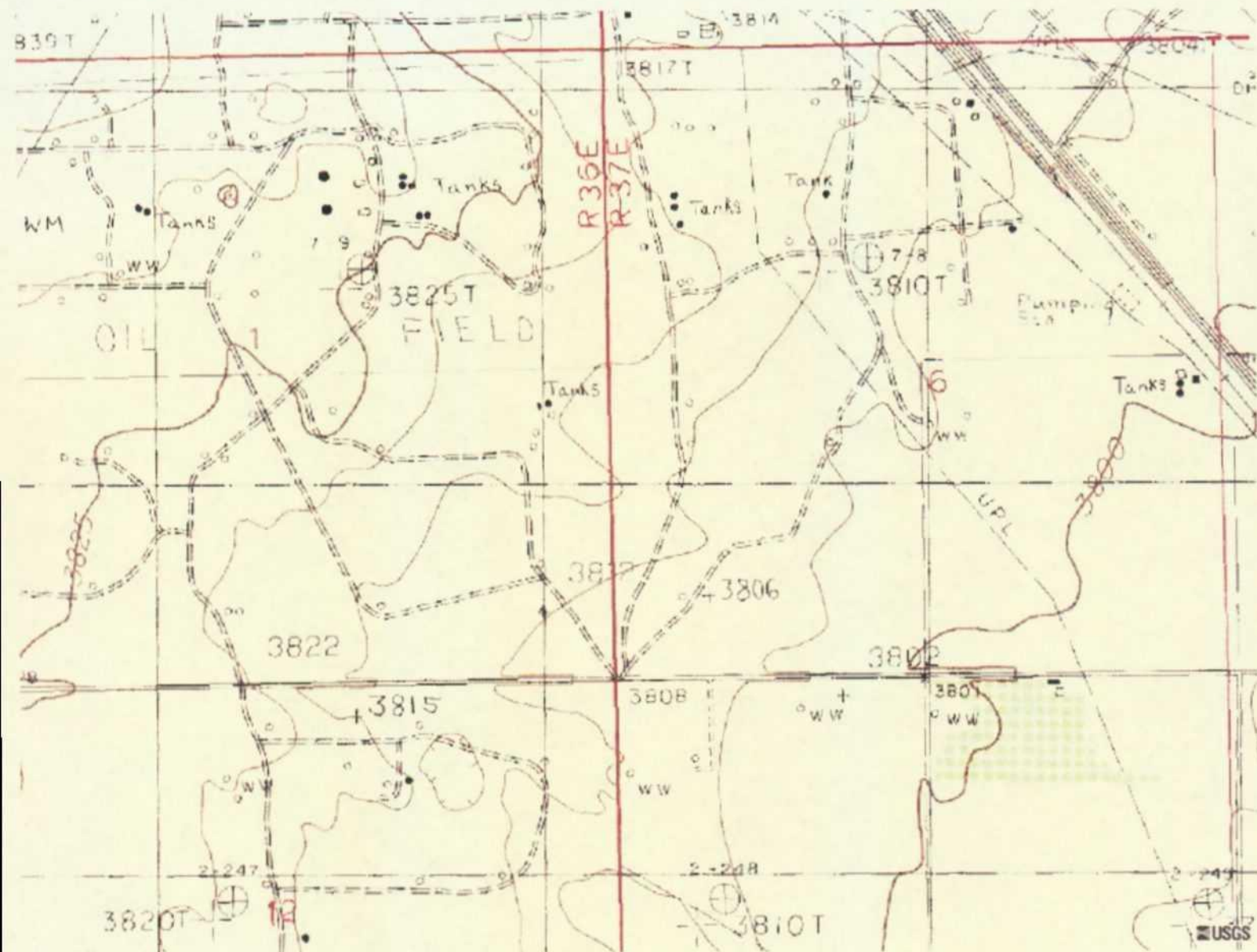


Tanks and lines are in place. Pits are in place, but do not have leak detection system installed. Application for pit reconstruction will be forthcoming.

4  
N



Tanks and lines are in place. Pits are in place, but do not have leak detection system installed. Application for pit reconstruction will be forthcoming.



## Kieling, Martyne

---

**From:** Kieling, Martyne  
**Sent:** Tuesday, April 08, 2003 11:47 AM  
**To:** Johnson, Larry  
**Subject:** Araho

Larry,

FYI

Here is a copy of the scope of work that went out to each of the three companies listed on the Highway Dept contract.



SCOPE OF  
WORK1.doc



SCOPE OF  
WORK2.doc



SCOPE OF  
WORK3.doc

The bids are due by April <sup>30</sup>~~25~~, 2003. I have spoken with John Bunch with Respec. He is planning on visiting the site on Monday or Tuesday of next week. He has also offered to sample the paint chips from the tanks. The OCD will be paying for the analysis at Pinnacle Labs in Albuquerque. I have copied you on a letter to the City of Lovington Manager regarding an Access Agreement and will have him mail the signed originals to you.



LetLovington0408.d  
oc

Here are other letters that have gone out. You will get hard copies in the mail that are signed. So you do not have to print any of these.



Let040803.doc



Let0307.doc

Give me a call if you have any questions.

*Martyne J. Kieling*

Martyne J. Kieling  
Environmental Geologist



# **SCOPE OF WORK**

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION

**PHASE I INVESTIGATION AND REMEDIATION  
ARAHO INC.  
FORMER INJECTION WELL DISPOSAL FACILITY  
LEA COUNTY, NEW MEXICO**

APRIL 1, 2003

## I. INTRODUCTION

### A. PURPOSE

The State of New Mexico Oil Conservation Division of the Energy, Minerals and Natural Resources Department (OCD) is conducting a Phase I investigation and cleanup at the Araho, Inc. former injection well disposal facility. The New Mexico State Highway and Transportation Department, Site Maintenance & Monitoring, Purchase Agreement 30-805-09-18056 will be used on this job.

### B. SUMMARY

The contractor shall perform the work necessary to conduct a Phase I cleanup and investigation to include the removal of the tank fluids, tanks, equipment, pipe and trash; and determine the nature extent of subsurface soil contamination. The Contractor shall also compile volume and cost estimates with regards to the soil contamination and prepare a cost effective Phase II investigation and cleanup proposal that can be implemented at this location. This site is suitable for on site composting. Araho, Inc. is located in the **NE/4 SE/4 of Section 1, Township 17 South, Range 36 East, NMPM, Lea County, New Mexico** (see figure 1, and photos).

### C. PROCUREMENT MANAGER

The OCD has designated a Procurement Manager who is responsible for the conduct of this procurement whose name, address and telephone number are listed below.

Martyne J. Kieling  
New Mexico Oil Conservation Division  
1220 South Saint Francis Drive  
Santa Fe, New Mexico 87505  
Phone: 505-476-3488  
Fax: 505-476-3462  
e-mail: mkieling@state.nm.us

All deliveries via express carrier should be addressed as above. Any inquiries or requests regarding this procurement should be submitted to the Procurement Manager in writing. Other state employees do not have the authority to respond on behalf of the Agency.

### D. BACK GROUND INFORMATION

Araho Inc. operated from 1974 to 1993 as an injection well disposal facility. The Araho site is located in the NE/4 SE/4 of Section 1, Township 17 South, Range 36 East, NMPM, Lea County, New Mexico. The surface is owned by the city of Lovington. The OCD is in the process of obtaining an access agreement with the city of Lovington in order for contract work to be performed. The facility has a large lined waste holding pit. This pit is not included in the OCD Phase I investigation and cleanup. However, Navajo Refining and their contractor will be managing the cleanup of the pit portion of the facility. The two portions of the project may be occurring at the same time or they may be staggered.

Depth to ground water at the site is estimated to be approximately 80 feet. The local ground water gradient is estimated to be toward the southeast. The OCD recommends that the contract vendors visit the site prior to submitting an estimate. The following table lists the major items located at the site and the estimated volume.

ITEM	SIZE / VOLUME ESTIMATES
Facility Dimensions	293' x 410
Lined Pit 125' x 120' x 4'	Not included in this estimate
Outside Pit Berm 145' x 145' x 4'	Not included in this estimate
3000 bbl tank	1000 bbls of material
210 bbl tank	50 bbls of material
750 bbl tank	250 bbls of material
500 bbl tank	empty
500 bbl tank	100 bbls of material
200 bbl tank open top fiberglass	200 bbls and overflowing
200 bbl tank	empty
750 bbl tank	empty
pipe	1000 feet
55 gal drum	15 drums
Assorted trash	volume not assessed

## II. TECHNICAL SPECIFICATIONS

The contractor shall:

1. Perform a One-Call and map the buried pipelines and all electrical hazards on site.
2. Perform a naturally occurring radioactive materials (NORM) survey of all pipes and equipment prior to disposal. A registered NORM surveyor must perform NORM surveys. The Regulations that pertain to NORM are 19.15.9.714 NMAC and 20.3.14 NMAC. The New Mexico Environment Department Radiation Control Bureau can be contacted for additional information regarding registration and licenses.

3. Remove material within the tanks for recycling, estimated to be 1600 bbls. Remove all tanks for recycling or disposal (see photos and table on the preceding page). The material and tanks must be sent to an OCD-approved facility and must be disposed/recycled in accordance with the rules of the OCD.
4. Remove trash at the site to include barrels, buckets, batteries, pipes (buried and surface), electrical meters, and other trash items. Perform any testing that may be necessary prior to disposal. *All samples taken during Phase I of the investigation will be sent to one of the laboratories currently covered by a separate purchase agreement with the OCD (Trace Analysis or Pinnacle).*
5. Investigate nature and extent of contamination below the tank footprints if there is visual evidence that the tank leaked or overflowed.
  - a. Investigate the extent of contamination beneath the tank footprints by trenching with a backhoe. Field photo ionization detector (PID) measurements will be used as a screening tool. Samples will be taken from each trench and will be sent for laboratory TPH, BTEX and chloride analysis. Back fill open trenches when finished.
6. Investigate the extent of chloride contamination in the surface soils at the site. A grid will be marked off on the site and 10, six (6)-inch compost samples will be taken.
7. Provide Estimates on the following Phase II remediation techniques.
  - a. Estimate the volume and cost to remove the contaminated material based on the trenching and sample analysis. Contaminated soil must be sent to an OCD-approved landfarm for reclamation. Estimate the cost for clean fill. Clean fill should be backhauled from the landfarm to help decrease trucking charges.
  - b. Estimate the volume and cost to excavate and construct compost piles on site. The contaminated material should be mixed 4:1 with manure and enough water should be added to keep the piles moist. The piles should be turned every four (4) weeks for at least four (4) turning events. Estimate the cost to backfill and compact the excavations and contour the site with the remediated composted material on site.

- c. Propose any additional remediation techniques that would be cost effective based on the data gathered during Phase I.
- 8. Prepare and deliver to the OCD a final report that contains:
  - a. A site map showing all buried pipelines and electrical hazards.
  - b. NORM survey results.
  - c. Volume of material removed from the tanks, disposal/reclamation company used and the volume of recoverable hydrocarbons retrieved.
  - d. Tank reclamation or scrap iron facility used.
  - e. Volume/weight of trash removed and the disposal/recycling company used
  - f. Results of all analytical data gathered.
  - g. A map/cross-sections showing the location, depth and concentrations of the remaining soil contamination.
  - h. Phase II remediation techniques/proposals with estimates as outlined in 7 a, b, and c above.

### III. SCHEDULE

#### A. INITIATION OF WORK

The investigation and cleanup shall be scheduled to commence as soon as possible after OCD approval of a contractor and purchase document for the investigation.

#### B. REPORT SUBMISSION

A report on the investigation and cleanup shall be submitted to the OCD within 60 days of completion of the field sampling activities.

### IV. MERGER

This Agreement, and attachments thereto, together with NMSHTD Price Agreement No. 30-805-09-18056, constitutes the entire agreement between the parties hereto and all previous agreements, conditions, promises, inducements and understandings shall be deemed to have merged in this Agreement.

## V. ESTIMATE

- A. Provide information regarding how you plan to implement the scope of work along with a cost estimate by April 30, 2003. For each item in the estimate, reference the corresponding individual line item from the contract. If there are additional items that do not fall under any line item please list the item as "at cost". Any Items billed at cost must be supported with receipts at time of invoicing. Please note that the New Mexico Gross Receipts Tax is currently 5.25 % for Lea County and for the Lovington Industrial Park.

LN	QTY	RATE	UNIT	COST	DESCRIPTION
*0001		\$75.00	Hour		Principal
*0002		\$70.00	Hour		Senior Scientist
*0003		\$63.00	Hour		Project Manager/Certified Scientist
*0004		\$50.00	Hour		Staff Scientist
*0005		\$35.00	Hour		Field Technician II
*0006		\$30.00	Hour		Field Technician I
*0007		\$35.00	Hour		Draftsperson II
*0008		\$25.00	Hour		Draftsperson I
*0009		\$32.00	Hour		Administrator
*0010		\$30.00	Hour		Secretary
*0011		\$20.00	Hour		Clerk
*0021		\$5.00	Day		PID
*0025		\$120.00	Day		Backhoe 1
*0026		\$157.00	Day		Backhoe 2
*0027		\$180.00	Day		Backhoe 3
*0028		\$350.00	Day		Trackhoe 1
*0029		\$500.00	Day		Trackhoe 2
*0042		\$0.32	Mile		Personal Vehicle Mileage
*0043		\$65.00	Each		Per Diem/Overnight
*0044		\$140.00	50 gal/bbl		Disposal of Contaminated Fluids
*0052		\$50.00	Day		Water Truck -
*0053		\$50.00	Day		Pick up Truck -
*0054		\$80.00	Day		Steam cleaner
			Day		Shear - at cost
			Ton		Tank & Pipe Disposal/Recycling - at cost
			Ton		Trash Disposal - at cost
			Day		Vacuum truck - at cost

**TOTAL =**

**(a) X 5.25% (NMGR) =**

**NOTE: LABORATORY COSTS ARE NOT INCLUDED**

Contract Vendor 3) Respec, Inc., 4775 Indian School Rd. NE, Suite 300, Albuquerque, NM 87110, Telephone 1-505-268-2661. Original e-mailed to john.bunch@respec.com.

Accepted: RESPEC, INC.

SIGNATURE \_\_\_\_\_ TITAL: \_\_\_\_\_ DATE: \_\_\_\_\_

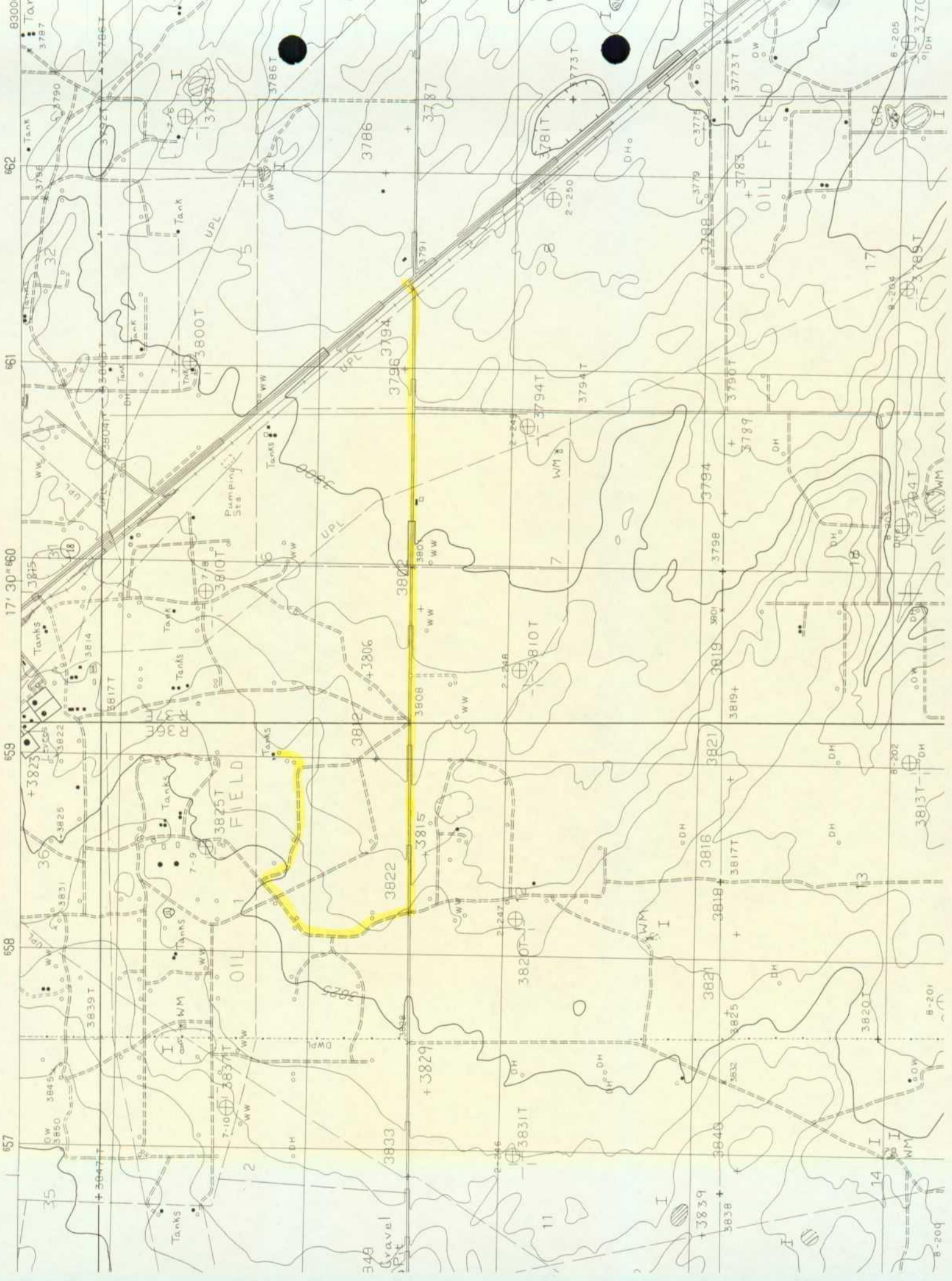








Photo 1: June 26, 2002



Photo 4: June 26, 2002



Photo 2: June 26, 2002



Photo 5: August 2000



Photo 3: June 26, 2002



Photo 6: August 2000





Photo 7: August 2000



Photo 10: August 2000



Photo 8: August 2000



Photo 9: August 2000



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**Lori Wrotenbery**

Director

**Oil Conservation Division**

April 8, 2003

Pat Wise  
City Manager  
City of Lovington  
P.O. Box 1269  
Lovington, NM 88260

Dear Mr. Wise:

Enclosed please find a Temporary Grant of Easement for the City's review. If it is acceptable please have it signed and notarized. The original should be returned to Larry Johnson of the OCD Hobbs Office so we may have it registered with the County Clerk. Larry Johnson's address follows:

Larry Johnson  
Oil Conservation Division  
1625 N. French Dr.  
Hobbs, New Mexico 88240

Phone (505) 393-6161 extension 111

I would like to thank you for your letter dated April 1, 2003 and the copy of the Right of Way Agreement with Araho, Inc. It was very helpful in preparing the OCD document. The OCD has notified Araho, Inc. of its plans and has begun soliciting bids for the project. I will keep you informed on our progress and any anticipated start dates when they become available.

Sincerely,

Martyne J. Kielling  
Environmental Geologist

cc: OCD Hobbs



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**  
Cabinet Secretary

April 8, 2003

**Lori Wrotenbery**

Director

**Oil Conservation Division**

John Bunch  
Respec, Inc.  
4775 Indian School Rd. NE, Suite 300  
Albuquerque, NM 87110

Don Fernald  
AMEC  
2060 Afton Place  
Farmington, NM 87401

Joe Tracy  
Intera, Inc.  
6501 Americas Pkwy NE  
Albuquerque, NM 87110

**RE: Araho Inc. Scope of Work and Bid Request.**

Dear John, Don, and Joe

Enclosed please find additional information on the Araho Inc. facility I have located an old sketch map in the file that shows pipe that is most likely below grade at the facility. I hope this helps with your estimates. Please only consider the removal of pipe that is inside of the fence line.

The OCD will be having the paint on the tanks sampled and analyzed for lead. I will copy you all when the results are in.

Sincerely,

Martyne J. Kielling  
Environmental Geologist

cc: Hobbs OCD



## GRANT OF RIGHT OF WAY AND EASEMENT

KNOW ALL MEN BY THESE PRESENTS THAT:

In consideration of One (\$1.00) Dollar and other good and valuable consideration, the CITY OF LOVINGTON, Lea County, New Mexico, hereinafter called Grantor does herewith grant, bargain, sell and convey unto ARAHO, INC., a New Mexico Corporation, hereinafter called Grantee, a right of way and easement Thirty (30) feet in width, on, over, and through the lands of Grantor, hereinafter described, for the purpose of constructing, maintaining using and operating one or more underground pipelines, and in the case of Parcel Number 3, surface installations, for the purpose of conveying various liquid substances over, across, through and under the lands hereinafter described, together with the right to excavate and refill ditches for the location of such pipelines and surface installation. Said right of way and easement is more particularly described as follows:

PARCEL NO. 1: A strip of land 30 feet wide, being 15 feet right and 15 feet left of the following description survey of center line:

Beginning at Eng. Sta. 31+30, a point on the South boundary line of Section 36, Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico, from which the Southeast corner of the said Section 36 bears North 89°51' East, a distance of 655 feet; thence North 19°30' West, crossing the City of Lovington, New Mexico land, a distance of 1526 feet to Eng. Sta. 46+56; thence North 53°10' East, a distance of 890 feet to Eng. Sta. 55+46, a point on the West boundary line of the Famariss Oil and Refining Company Plant Site, from which the East Quarter corner of the said Section 36 bears North 32°16' East, a distance of 792 feet.  
146.42 Rods

PARCEL NO. 2: A strip of land 30 feet wide, being 15 feet right and 15 feet left of the following described survey of center line:

Beginning at Eng. Sta. 1-04.5, a point on the North bound-

ary line of the Proposed Salt Water Disposal Plant Site, from which the East Quarter corner of Section 1, Township 17 South, Range 36 East, N.M.P.M., Lea County, New Mexico bears North 58°01' East, a distance of 661.6 feet; thence, North 2°30' East, crossing the City of Lovington, New Mexico land, a distance of 2395.5 feet to Eng. Sta. 25-00; thence, North 19°30' West, a distance of 630 feet to Eng. Sta. 31-30, a point on the North boundary line of the said Section 1, from which the Northeast corner of the said Section 1 bears North 89°51' East, a distance of 655 feet.  
183.36 Rods

PARCEL NO. 3: A tract of land containing 1 acre, more or less, and being a certain part of the Southeast Quarter (SE/4) of Section 1, Township 17 South, Range 36 East, N.M.P.M., Lea County, New Mexico, and is more particularly described as follows:

Beginning at a point, the Northeast corner of this tract, from which the Southeast corner of the said Section 1 bears North 89°51' East, a distance of 461.4 feet, and South, a distance of 2291 feet; thence, South 89°51' West, a distance of 208.71 feet to the Northwest corner of this tract; thence, South, a distance of 208.71 feet to the Southwest corner of this tract; thence, North 89°51' East, a distance of 208.71 feet to the Southeast corner of this tract; thence, North, a distance of 208.71 feet to the point of beginning.

This grant shall carry with it the right to inspect, patrol, alter, remove, replace, reconstruct and repair the said pipelines, valves, and other appurtenances, the right to mark the location of said right of way by suitable markers set and maintained in the ground at locations which shall not interfere with such reasonable use as Grantor shall make of the land within limits of said right of way, the right to use such lands of the Grantor immediately adjacent to either side of the right of way as may reasonably be required by Grantee in connection with the construction, reconstruction, maintenance, replacement and removal of the pipelines, valves, and other appurtenances and the right of ingress to and egress from the said right of way across the lands of the Grantor for all purposes useful or convenient in connection with or incidental to the exercise and enjoyment of the rights herein granted.

TO HAVE AND TO HOLD the above described rights and right of way



unto the Grantee, its successors and assigns, for as long as Grantee desires to exercise the same, and Grantee may assign the rights and right of way herein granted, either in whole or in part, subject to the terms of this grant.

The pipes, valves and other appurtenances shall at all times remain the property of Grantee, notwithstanding the same may be annexed or affixed to the freehold, and shall at any time and from time to time be removable, in whole or in part, by Grantee, its successors or assigns.

In the event Grantee permanently abandons the pipelines, Grantee, at its option, may leave the pipe in place and shall execute and record a reconveyance and release of this grant.

Grantor reserves the right to full use and enjoyment of said premises, except for the purposes herein granted, provided that such use and enjoyment shall not hinder, conflict or interfere with the exercise of Grantee's right hereunder, and that no building, reservoir or structure shall be constructed on the said right of way without Grantee's written consent.

Grantee, insofar as it is practicable to do so, shall bury all pipe to a sufficient depth at time of construction so as not to interfere unreasonably with the ordinary cultivation of the right of way and shall restore the surface of the ground, so far as is practicable, to its condition prior to installation of the pipe.

Grantee shall pay Grantor the reasonable amount of actual damages to crops, livestock, fences, buildings, private roads, and other improvements caused by it on said lands in the construction or reconstruction of the pipeline or pipelines or in the exercise of the right of ingress or egress.

Grantor represents, covenants and warrants that such of the undersigned as are shown on record in said county as owners in fee simple of the lands hereinabove described are indeed the owners of such fee simple title, subject only to outstanding encumbrances, if any, now on record in said county.

The provisions hereof shall inure to the benefit of and be binding upon the parties hereto, their respective heirs, representatives, executors, administrators, successors and assigns.

IN WITNESS WHEREOF, these presents are hereby signed this 24 day of May, 1974.

CITY OF LOVINGTON  
Lea County, New Mexico

By: *Harold B. Denton*  
Mayor

ATTEST:

*Peggy Mann*  
City Clerk

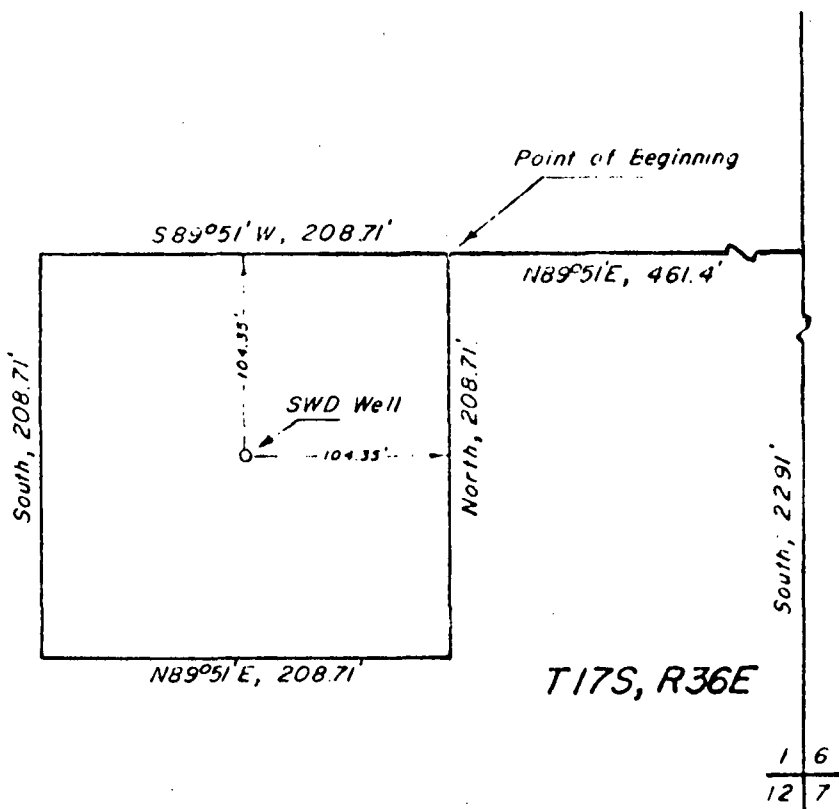
STATE OF NEW MEXICO )  
COUNTY OF LEA )  
SS:

The above and foregoing Grant of Right of Way and Easement was acknowledged before me this 24 day of May, 1974, by Harold Denton, Mayor of the City of Lovington, Lea County, New Mexico on behalf of said City.

*Juanita Robinson*  
NOTARY PUBLIC

My Commission Expires:

11-22-75



#### DESCRIPTION

A tract of land containing 1 acre, more or less, and being a certain part of the southeast quarter of Section 1, Township 17 South, Range 36 East, N. M. P. M., Lea County, New Mexico, and is more particularly described as follows:

Beginning at a point, the northeast corner of this tract, from which the southeast corner of the said Section 1 bears north 89°51' east, a distance of 461.4 feet, and south, a distance of 2291 feet; thence, south 89°51' west, a distance of 208.71 feet to the northwest corner of this tract; thence, south, a distance of 208.71 feet to the southwest corner of this tract; thence, north 89°51' east, a distance of 208.71 feet to the southeast corner of this tract; thence, north, a distance of 208.71 feet to the point of beginning.

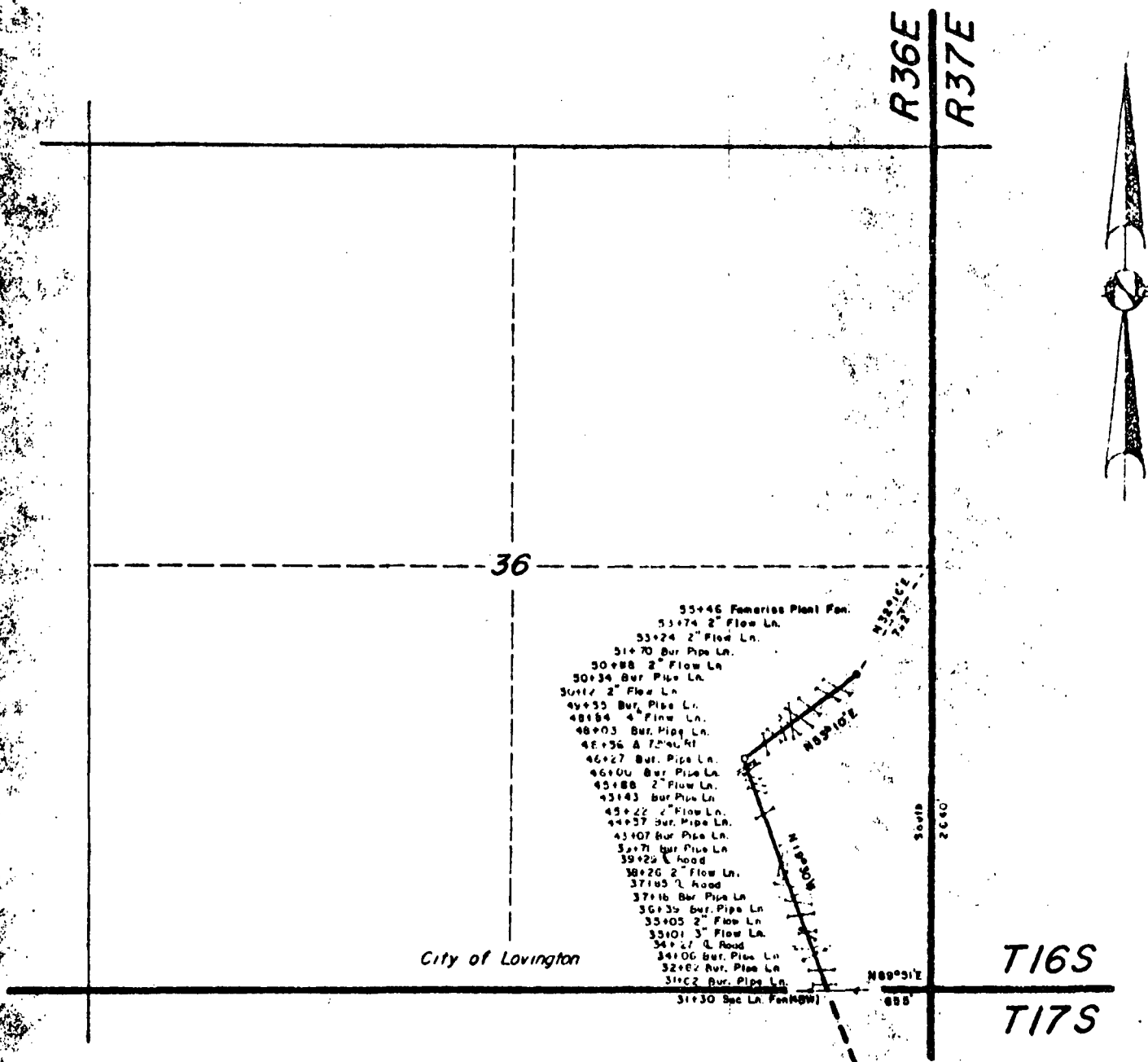


I HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPERVISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

JOHN W. WEST, N.M. P.E. & L.S. NO 676  
TEXAS RPS NO 1138

ARAO, INCORPORATED	
Proposed Salt Water Disposal Plant Site consisting of 1 acre of land in the southeast quarter of Section 1, Township 17 South, Range 36 East, NMPM., Lea County, New Mexico	
JOHN W WEST ENGINEERING COMPANY CONSULTING ENGINEERS HOBBS, NEW MEXICO	
Scale 1"=100'	Drawn by chb
Date April 20, 1974	Sheet 1 of 1 Sheets

Parcel #3

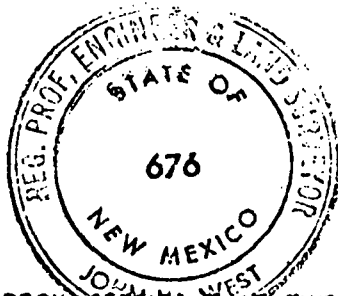


#### DESCRIPTION

A strip of land 30 feet wide, being 15 feet right and 15 feet left of the following description survey of center line:

Beginning at Eng. Sta. 31+30, a point on the south boundary line of Section 36, Township 16 South, Range 36 East, N. M. P. M., Lea County, New Mexico, from which the southeast corner of the said Section 36 bears north 89°51' east, a distance of 655 feet; thence, north 19°30' west, crossing the City of Lovington, New Mexico land, a distance of 1526 feet to Eng. Sta. 46+56; thence, north 53°10' east, a distance of 890 feet to Eng. Sta. 55+46, a point on the west boundary line of the Famariss Oil and Refining Company Plant Site, from which the east quarter corner of the said Section 36 bears north 32°16' east, a distance of 792 feet.

146.42 Rods



I HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPERVISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*John W. West*  
 JOHN W. WEST, N.M. P.E. & L.S. NO. 676  
 TEXAS R.P.S. NO. 1138

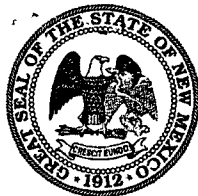
#### ARAHO, INCORPORATED

Proposed salt water disposal pipe line crossing the City of Lovington, New Mexico land in Section 36, Township 16 South, Range 36 East, N. M. P. M., Lea County, New Mexico.

JOHN W. WEST ENGINEERING COMPANY  
 CONSULTING ENGINEERS NO. 8895 NEW MEXICO

Scale 1"=1000'	Drawn by chb
Date April 19, 1974	Sheet 1 of 1 Sheets

Parcel #1



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**Lori Wrotenbery**

Director

**Oil Conservation Division**

April 7, 2003

Ms. Dorothy Runnels  
Araho, Inc.  
8100 West Alabama  
Hobbs, NM 88242

**Re: OCD Investigation and Cleanup**

Araho, Inc.

SE/4 of Section 1, Township 17 South, Range 36 East, NMPM

Lea County, New Mexico

Dear Ms. Runnels:

The New Mexico Oil Conservation Division (OCD) hereby notifies you that the OCD is in the process of soliciting bids to begin an investigation and cleanup of the surface equipment and materials that are remaining at the Araho, Inc. former injection well facility at the above referenced location. The OCD has been in contact with the Lovington city manager, Pat Wise, to gain temporary access to the surface. In addition, Navajo Refining has proposed to cleanup the pit at the above location and has begun to solicit bids for that portion of the work.

The OCD has determined that this investigation and cleanup is necessary to protect public health and the environment. The Araho, Inc facility, including the lined pit, tanks, equipment, valve sumps and pipe will be removed, and contaminated soils will be removed or remediated on site. Salvageable equipment will be sold and any proceeds from such sales will be applied to the cost of clean-up. Please be advised that this OCD investigation and cleanup does not relieve Araho Inc. of responsibility. OCD reserves the right to seek reimbursement of costs it may incur from any existing or future assets of Araho, Inc. Furthermore, Araho, Inc is not relieved of any liability to any person who may be damaged should it be determined that Araho's operations have resulted in pollution of surface water, ground water, or the environment. In addition, this action does not relieve Araho, Inc. of responsibility for compliance with other federal, state or local laws or regulations.

If you have any questions regarding this action, please contact Martyne Kielsing at (505) 476-3488.

If Araho, Inc. objects to the proposed actions of OCD, you should file an application for a hearing with the Santa Fe office by April 21, 2003.

Sincerely,

A handwritten signature in black ink, appearing to read "Roger C. Anderson". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Roger C. Anderson,  
Environmental Bureau Chief

RCA/mk

xc: OCD Hobbs District

Mark Sanchez, Esq., Gary Regan P.A, P.O. Box 770, Hobbs, NM 88240

## Kieling, Martyne

---

**From:** Kieling, Martyne  
**Sent:** Thursday, April 03, 2003 2:59 PM  
**To:** 'john.bunch@respec.com'; 'ssabol@inter.com'; 'don.fernald@amec.com'  
**Subject:** Request for Bid

Dear John, Stacy & Don:

Attached is a scope of work for an COD investigation and cleanup at the Araho Inc. former injection well facility. The site is between Lovington and Hobbs, New Mexico. If you wish to bid on this project, please provide a cost estimate, by April 25, 2003. The scope of work will be implemented under the State of New Mexico General Services Department Contract # 30-805-09-18056. For each item in the estimate, please reference the corresponding individual line item from the contract. If there are items not covered please list them "At Cost" and provide the cost. I have also included an excel document that contains the table found within the Scope of Work. You may use the Excel table if you wish and re-insert it into the Scope of Work Document; Respec's table is listed on Tab 1, Amec's table is on Tab 2 and Intera's table is on Tab 3. I believe that I have entered all the correct bid prices but if I have made any errors please let me know. Also attached are photos and a map with directions.



SCOPE OF  
WORK3.doc



Price  
Estimat-scope.xls



Map &  
Directions.doc



Photos Scope of  
Work.doc

If you have any questions please contact me.

Sincerely,

*Martyne J. Kieling*

Martyne J. Kieling  
Environmental Geologist  
Oil Conservation Division  
1220 South Saint Francis Drive  
Santa Fe, NM 87505

Phone 505-476-3488  
Fax 505-476-3462

**SHADED AREAS ARE FOR LAB USE ONLY.**

**PLEASE FILL THIS FORM IN COMPLETELY.**

<b>PROJECT MANAGER:</b>			<b>ANALYSIS REQUEST</b>		
COMPANY: <u>Oil Conservation Division</u> ADDRESS: <u>Attn. Martine Kieling</u> <u>1220 S. St. Francis Drive</u> <u>Santa Fe, NM 87505</u>  PHONE: _____ FAX: _____  BILL TO: <u>OC-D</u> COMPANY: _____ ADDRESS: _____			SAMPLE ID: _____ DATE: <u>4-14-93</u> TIME: <u>4:05</u> MATRIX: <u>NAC2</u> LAB I.D.: <u>01</u> <u>PAINT CHIPS FROM SITE</u> <u>TANKS</u>		
(MOD.8015) Diesel/Direct Inject (M8015) Gas/Purge & Trap 8021 (BTEX)/8015 (Gasoline) MTBE 8021 (BTEX) □ MTBE □ TMB □ PCE 8021 (TCL) 8021 (EDX) 8021 (HALO) 8021 (CUST) 504.1 EDB □ / DBCP □ 8260 (TCL) Volatile Organics 8260 (Full) Volatile Organics 8260 (CUST) Volatile Organics 8260 (Landfill) Volatile Organics Pesticides/PCB (608/8081/8082) Herbicides (615/8151) Base/Neutral/Acid Compounds GC/MS (625/8270) Polynuclear Aromatics (610/8310/8270-SIMS) General Chemistry: Priority Pollutant Metals (13) Target Analyte List Metals (23) RCRA Metals (8) RCRA Metals by TCLP (Method 1311) Metals: <u>Pb</u>			NUM. OF CONTAINERS: <u>1</u>		

<b>PROJECT INFORMATION</b>		<b>PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS</b>		<b>RELINQUISHED BY:</b>	
PROJ. NO.: <u>ARATO SITE</u>	(RUSH) <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input checked="" type="checkbox"/> 72hr <input type="checkbox"/> 1 WEEK <input type="checkbox"/> (NORMAL) <input type="checkbox"/>	CERTIFICATION REQUIRED <input type="checkbox"/> NM <input type="checkbox"/> SDWA <input type="checkbox"/> OTHER METHANOL PRESERVATION <input type="checkbox"/>		Signature: <u>[Signature]</u> Time: _____	Signature: _____ Time: _____
PROJ. NAME: _____	COMMENTS: <u>FIXED FEE</u> <input type="checkbox"/>		Printed Name: <u>John L Burch</u> Date: <u>4.17.93</u>		Printed Name: _____ Date: _____
P.O. NO.: _____	SHIPPED VIA: _____		Company: _____		Company: _____
<b>SAMPLE RECEIPT</b>		<b>RECEIVED BY:</b>		<b>RECEIVED BY: (LAB)</b>	
NO CONTAINERS: <u>1</u>	Y/N (NA) <u>Y</u>	Signature: <u>[Signature]</u> Time: <u>1:30</u>	Signature: <u>[Signature]</u> Time: <u>1:06</u>	Signature: <u>[Signature]</u> Time: <u>1:30</u>	
CUSTODY SEALS: <u>YES</u>	Y/N (NA) <u>Y</u>	Printed Name: <u>John L Burch</u> Date: <u>4.17.93</u>	Printed Name: <u>John L Burch</u> Date: <u>4.17.93</u>	Printed Name: <u>John L Burch</u> Date: <u>4.17.93</u>	
RECEIVED INTACT: <u>YES</u>	Y/N (NA) <u>Y</u>	Company: _____	Company: _____	Company: _____	
BLUE ICE/ICE: <u>YES</u>	Y/N (NA) <u>Y</u>	Pinnacle Laboratories Inc.			



PINNACLE  
LABORATORIES

2709-D Pan American Freeway NE  
Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

PL I.D. 304120

May 1, 2003

NMOCD  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

RESPEC  
4775 Indian School Rd NE  
Suite 300  
Albuquerque, NM 87110

Project Name/Number: ARAHO SITE

Attention: Martyne Kieling/John Bunch

On 04/17/03, Pinnacle Laboratories Inc., (ADHS License No. AZ0643 pending), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.



H. Mitchell Rubenstein, Ph.D.  
General Manager

MR:jt

Enclosure

PINNACLE  
LABORATORIES

2709-D Pan American Freeway NE  
Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

CLIENT : NM OIL CONSERVATION DIVISION      DATE RECEIVED : 04/17/03  
PROJECT # : ARAHO SITE  
PROJECT NAME : (NONE)      REPORT DATE : 05/01/03

PL ID: 304120

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01 304120-01	PAINT CHIPS FROM SITE TANKS	AQUEOUS	04/14/03

---TOTALS---

MATRIX  
AQUEOUS

#SAMPLES  
1



STL

LOG NO: C3-04424  
Received: 18 APR 03  
Reported: 24 APR 03

Ms. Jacinta Tenorio  
Pinnacle Laboratories  
2709-D Pan American Freeway Northeast  
Albuquerque, NM 87107

Cl Project No: 304120

Project: 304120, NMOCD ARAHO SITE  
Sampled By: Client  
Code: 121530425

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
04424-1	304120-01	04-14-03/16:05
PARAMETER	04424-1	
Lead (6010B), mg/kg	210	
Dilution Factor	2	
Prep Date	04.21.03	
Analysis Date	04.22.03	
Batch ID	PS065	
Prep Method	3050B	
Analyst	GSP	



STL

LOG NO: C3-04424  
Received: 18 APR 03  
Reported: 24 APR 03

Ms. Jacinta Tenorio  
Pinnacle Laboratories  
2709-D Pan American Freeway Northeast  
Albuquerque, NM 87107

C1 Project No: 304120

Project: 304120, NMOCD ARAHO SITE  
Sampled By: Client  
Code: 121530425

Page 2

## REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED		
04424-2	Method Blank			
04424-3	Lab Control Standard % Recovery			
04424-4	Matrix Spike % Recovery			
04424-5	Matrix Spike Duplicate % Recovery			
PARAMETER	04424-2	04424-3	04424-4	04424-5
Lead (6010B), mg/kg	<0.50	97 %	N/C	N/C
Dilution Factor	1	---	---	---
Prep Date	04.21.03	---	---	---
Analysis Date	04.22.03	---	---	---
Batch ID	PS065	PS065	PS065	PS065
Prep Method	3050B	---	---	---
Analyst	GSP	---	---	---

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.  
See the Project Sample Inspection Form (PSIF) to determine if a sample was received that did not meet EPA requirements for sample collection, preservation, or holding time.

*Lance Larson*  
Lance Larson, Project Manager

Final Page Of Report

## STL Pensacola Data Qualifiers for Final Report

B	The analyte was detected in the associated method blank and in the client's sample.
C	The compound has been quantitated against a one point calibration.
D	Recovery is not calculable due to dilution.
E	Estimated value because the analyte concentration exceeds the upper calibration range of the instrument or method.
I	Estimated value because the analyte concentration is less than the lower calibration range of the instrument but is at the method detection limit or greater than the method detection limit.
H	Sample and/or duplicate is below 5 X (times) the STL Reporting Limit and the absolute difference between the results exceeds the STL Reporting Limit.
J1	A sample surrogate or an LCS target compound recovered above the upper control limit (UCL). Compounds qualified with a J1 may be biased high.
J2	A sample surrogate or an LCS target compound recovered outside the lower control limit (LCL). Compounds qualified with a J2 may be biased low.
M1	A matrix effect was present.
M2	The MS and/or MSD %R or RPD was outside upper or lower control limits; not necessarily due to matrix effect.
N/C	Not Calculable; Sample spiked is > 4X spike concentration (may use this flag in place of negative numbers).
R1	Internal standard area exceeds the acceptance criteria
R2	Calibration verification exceeds the acceptance criteria.
S1	The Method of Standard Additions (MSA) has been performed on this sample.
T	Second-column or detector confirmation exceeded the SW-846 criteria of 40% RPD for this compound.
TIC	The compound is not included in the initial calibration curve. It is searched for qualitatively or as a Tentatively Identified Compound.
U or <	The analyte was not detected at or above the MDL or the RL, whichever is entered next to the "U" or "<"
W	Post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is less than 50% spike absorbance.

It is permissible to submit an Out-of-Control Events/Corrective Action form and/or Case Narrative in lieu of using above qualifiers.

When the laboratory receives a sample that does not meet EPA requirements for sample collection, preservation or holding time, the laboratory is required to reject the samples. The client must be notified and asked whether the lab should proceed with analysis. Data from any samples that do not meet sample acceptance criteria (collection, preservation and holding time), must be flagged, or noted on a corrective action form or case narrative, or addressed on the Project Sample Inspection Form (PSIF) in an unambiguous manner clearly defining the nature and substance of the variation. NPDES samples from North Carolina that do not meet EPA requirements for sample collection, preservation or holding time are non-reportable for NPDES compliance monitoring.

### Abbreviations

ND	Not Detected at or above the STL Pensacola reporting limit (RL)
NS	Not Submitted
NA	Not Applicable
MDL	STL Pensacola Method Detection Limit
RL	STL Pensacola Reporting Limit
NoMS	Not enough sample provided to prepare and/or analyze a method-required matrix spike (MS) and/or duplicate (MSD)

### Florida Projects Inorganic/Organic

Refer to FL DEP 62-160.700(7); Table 7 Data Qualifier Codes. FL DEP Rule 62-160.670(1)(h) states that laboratories shall include the analytical result for each analysis with applicable data qualifiers. FL DEP Rule 62-160.700(7), Table 7 lists the FL DEP data qualifiers. FL DEP Rule 62-160.700(3), Table 3 lists the Florida sites which require data qualifiers.

### AFCEE QAPP Projects

Refer to AFCEE QAPP for appropriate data qualifiers (AFCEE QAPP Version will be specified by client for the project).

### Arizona DEQ Projects

Any qualified data submitted to Arizona DEQ (ADEQ) after January 1, 2001 must be designated using the Arizona Data Qualifiers as developed by the Arizona ELAC technical subcommittee. Refer to the ADEQ qualifier list.

### CLP and CLP-like Projects

Refer to referenced CLP Statement of Work (SOW) for explanation of data qualifiers. CLP SOW to be followed must be specified to client.

# STL

Lab Order #: C304424

Date Received: 4/18/63

1. Was there a Chain of Custody? ( Yes ) No

2. Was Chain of Custody properly filled out and relinquished? Yes No

3. Were all samples properly labeled and identified? Yes No<sup>4</sup>

4. Were samples received cold? Yes No<sup>+</sup> N/A  
(Criteria: 2° - 6°C: STL-SOP 1055)

5. Did samples require splitting or compositing\*? Yes\* No

6. Were samples received in proper containers for analysis requested? ☒ Yes ☐ No<sup>4</sup>

7. Were all sample containers received intact? Yes No\*

8. Were samples checked for preservative? (Check pH of all ☐ Yes ☐ No ☒ N/A

9. Is there sufficient volume for analysis requested? Yes No\* N/A  
(Can)

10. Were samples received within Holding Time? (REFER TO STL-SOP 1040) Yes No<sup>+</sup>

11. Is Headspace visible > ¼" in diameter in VOA vials?\* Yes\* No N/A

12. Were Trip Blanks Received? Yes No N/A

13. If sent, were matrix spike bottles returned? Yes No<sup>+</sup> N/A

14. If sent, were T-Handles returned? Yes No <sup>+</sup> N/A

15. If any issues, how was PM notified? PSIF ☒ Verbal ☐

Airbill Number(s): 12878168 01 4408 8080

**Shipped By:** UPS ) FedX HD BUS ABX

*(HD – Hand Delivery)*

Cooler Numbers & Temp(s) (°C): *Chemist 4°*

(IE. 340L-4°C-CCK8 -- LIST THERMOMETER NUMBER FOR VERIFICATION)

***Out of Control Events and Inspection Comments (list sample IDs/Tests where appropriate):***

1-3. COC/Sample ID/COC discrepancy: The COC Shows the Matrix as HQ but  
They are Solid Paint Chips

4. Insufficient Ice ☐ Delay in delivery ☐ Other ☐

5. Samples were Split ☐ Composited ☐ Requested by: Client ☐ PM ☐ Other: \_\_\_\_\_

6. Improper Containers (ID/Size/desc):

7. Broken bottles/Test:

8. Incorrect pH: \_\_\_\_\_

9. Test/Matrix/Volume:

10. Out of Holding Time/Test:

### 11. VOA headspace > 1/4" (list ~ size)

List additional comments by above number:

(USE BACK OF PS IF FOR ADDITIONAL NOTES AND COMMENTS)

**Inspected By:**

Date:

Logged By:

Date:

For all cases under question 6 events on Comment Section of this form. For holding times, the analytical department will flag immediate hold time samples (H, Dissolved O2, Residual Chlorine) as out of hold time, therefore, these samples will not be documented on this form.

NOTE: Samples suspected to be split or compromised must be split in the Volatile Lab. Document: "Volatile sample values may be compromised due to sample splitting (compromised)

For results in North Carolina, New York, and other requested samples and to be reported on the pH log provided (STL SOP 938)

100-443887-100



## **STL PENSACOLA** **Certifications, Memberships & Affiliations**

**Alabama** Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL), expires 06/30/03

**Arizona** Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater), expires 01/11/04

**Arkansas** Department of Pollution Control and Ecology, (No Laboratory ID No. assigned by state) (Environmental), expires 02/20/03

**California** Department of Health Services, **ELAP** Laboratory ID No. I-2510 (Hazardous Waste and Wastewater), expires 03/31/03

**Connecticut** Department of Health Services, Connecticut Lab Approval No. PH-0697 (D W, H W and Wastewater), expires 09/30/03

**Florida** DOH, **NELAP** Laboratory ID No. E81010 (Drinking Water, Hazardous Waste and Wastewater), expires 06/30/03

**Florida** DEP/DOH CompQAP # 980156

**Iowa** Department of Natural Resources, Laboratory ID No. 367 (UST), expires 08/01/04

**Kansas** Department of Health & Environment, **NELAP** Laboratory ID No. E10253 (Wastewater and Hazardous Waste), expires 10/31/03

**Kentucky** NR&EPC, Laboratory ID No. 90043 (Drinking Water), expires 12/31/03.

**Louisiana** DEQ, LELAP, **NELAP** Laboratory ID No. 02075, Agency Interest ID 30748 (Environmental), expires 6/30/03

**Maryland** DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida), expires 09/30/03

**Massachusetts** DEP, Laboratory ID No. M-FL094 ( Wastewater), expires 06/30/03

**Michigan** Bureau of E&OcH, Laboratory ID No.9912 (Drinking Water by Reciprocity with Florida), expires 06/30/03

**New Hampshire** DES ELAP, **NELAP** Laboratory ID No. 250502 (Drinking Water & Wastewater), expires 08/16/03

**New Jersey** DEP&E, **NELAP** Laboratory ID No. FL006 (Wastewater and Hazardous Waster), expires 06/30/03.

**New York State** Department of Health, **NELAP** Laboratory ID No. 11503 (WW and Solids/Hazardous Waste), expires 06/16/2003

**North Carolina** DENR, Laboratory ID No. 314 (Hazardous Waste and Wastewater), expires 12/31/03.

**North Dakota** DH&Consol Labs, Laboratory ID No. R-108 Wastewater and Hazardous Waste by Reciprocity with Florida), expires 06/30/03

**Oklahoma** Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater), expires 08/31/03

**Pennsylvania** Department of Environmental Resources, **NELAP** Laboratory ID No. 68-467 (Drinking Water & Wastewater), expires 12/01/03

**South Carolina** DH&EC, Laboratory ID No. 96026 (Wastewater & Solids/Hazardous Waste by Reciprocity with FL), expires 06/30/03

**Tennessee** Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water), expires 08/03/04

**Virginia** Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL), expires 06/30/03.

**Washington** Department of Ecology, Laboratory ID No. C282 (Hazardous Waste and Wastewater), expires 09/14/03.

**West Virginia** DOE, Office of Water Resources, Laboratory ID No. 136 (Haz Waste and Wastewater), expires 04/30/02.

**AIHA** (American Industrial Hygiene Association) Accredited Laboratory, Laboratory ID No. 100704, expires April 1, 2004. Participant in AIHA sponsored Laboratory PAT Rounds

**EPA ICR** (Information Collection Rule) Approved Laboratory, Laboratory ID No. ICRFL031

**NFESC** (Naval Facilities Engineering Services Center), expires April 18, 2004/

**USACE** (United States Army Corps. of Engineers), MRD, expires June 30, 2003.

STL Pensacola also has a foreign soil permit to accept soils from locations other than the continental United States. Permit No. S-37599

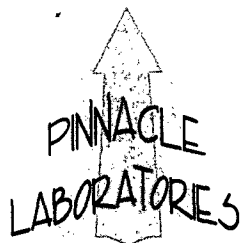




PROJECT MANAGER:		ANALYSIS REQUEST	
COMPANY: Oil Conservation Division ADDRESS: Attn: Martine Kieling 1220 S. St. Francis Drive Santa Fe, NM 87505 PHONE: FAX: BILL TO: OCD COMPANY: ADDRESS: 		General Chemistry: Priority Pollutant Metals (13) Target Analyte List Metals (23) RCRA Metals (8) RCRA Metals by TCLP (Method 1311) Metals: Pb NUMBER OF CONTAINERS: 1	
SAMPLE ID: DATE: 4/14/03 TIME: 4:05 MATRIX: NAQ LAB I.D.: 01		8260 (TCL) Volatile Organics 8260 (CUST) Volatile Organics 8260 (Landfill) Volatile Organics Pesticides/PCB (608/8081/8082) Herbicides (615/8151) Base/Neutral/Acid Compounds GC/MS (625/8270) Polynuclear Aromatics (610/8310/8270-SIMS)	
(M8015) Gas/Purge & Trap 8021 (BTX)/8015 (Gasoline) MTBE 8021 (BTX) □ MTBE □ TMB □ PCE 8021 (TCL) 8021 (EDX) 8021 (HALO) 8021 (CUST) 504.1 EDB □ / DBCP □		Petroleum Hydrocarbons (418.1) TRPH (MOD.8015) Diesel/Direct Inject	
PROJECT INFORMATION PROJ. NO.: AR400 SITE PROJ. NAME: P.O. NO.: SHIPPED VIA:		RELINQUISHED BY: 1. Signature: [Signature] Printed Name: John E Burch Date: 4/17/03 Company: Pinnacle Laboratories Inc.	
SAMPLE RECEIPT NO CONTAINERS: 1 CUSTODY SEALS: Y/N (NA) RECEIVED INTACT: [Initials] BLUE ICE/ICE: 250		RELINQUISHED BY: 2. Signature: [Signature] Printed Name: [Name] Date: [Date] Company: Pinnacle Laboratories Inc.	
PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS (RUSH) □ 24hr □ 48hr □ 72hr □ 1 WEEK CERTIFICATION REQUIRED □ NM □ SDWA □ OTHER METHANOL PRESERVATION □ COMMENTS: FIXED FEE □ Direct Bill to OCD send copy of results to: John Burch @ RESPEC 4775 Indian School Rd NE, Suite 300 Albuquerque, NM 87110		RECEIVED BY: (LAB) Signature: [Signature] Printed Name: [Name] Date: [Date] Company: Pinnacle Laboratories Inc.	

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.



2709-D Pan American Freeway NE  
Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

COPY

Bill N.M. Oil Conservation Division  
To: 1220 South St. Francis Dr.  
Santa Fe, NM 87505

Client #: 810-134

Date	Invoice
4/30'03	84904

Project #: Araho Site

Original  
BALANCE DUE: 42.00

PO Number	Terms	Project
	Net 30	PIN ALB-810

Quantity	Description	Rate	Amount
1	Item-045 Lead: AA Method 7421 Non-Aq Item-0083 7-Day Turn Around Surcharge	28.00 50.00 %	28.00 14.00
Remit to: Pinnacle Laboratories, Inc. 2709-D Pan American Freeway NE Albuquerque, NM 87107			
Accession #: 304120 Authorized By: Martyne Kieling		TOTAL:	42.00

## Kieling, Martyne

---

**From:** Johnson, Larry  
**Sent:** Monday, October 06, 2003 11:11 AM  
**To:** Kieling, Martyne  
**Subject:** Araho Calf

Martyne,

I am curious as exactly when (date specific) and exactly where (site specific) the alleged event occurred. Who found the animal and where was it found. There are several things that are difficult to understand. As to the responsible party if the incident did occur on the Araho site is: Dorothy Runnels. 8100 W. Alabama in Hobbs 392-6223.

Larry

## TEMPORARY GRANT OF EASEMENT

CITY OF LOVINGTON, P.O. Box 1269, Lovington, New Mexico, 88260 (hereinafter referred to as "City"), for consideration, grant to the NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES (hereinafter referred to as "EMNRD") and its OIL CONSERVATION DIVISION (hereinafter referred to as "Division"), their agents, employees and contractors, a temporary and limited easement in, to, upon and over all that portion of the following described real estate in Lea County, New Mexico, together with reasonable access thereto:

### **SURFACE ACCESS ONLY:**

A tract of land containing 1 acre, more or less, and being a certain part of the southeast quarter (SE/4) of Section 1, Township 17 South (T. 17 S.), Range 36 East (R. 36 E.), N.M.P.M., Lea County, New Mexico, being more particularly described as follows:

Beginning at a point, the Northeast corner of this tract, from which the Southeast corner of the said Section 1 bears North 89°51' East, a distance of 461.4 feet, and South, a distance of 2291 feet; thence, South 89°51' West, a distance of 208.71 feet to the Northwest corner of this tract; thence, South, a distance of 208.71 feet to the Southwest corner of this tract; thence, North 89°51' East, a distance of 208.71 feet to the Southeast corner of this tract; thence, North, a distance of 208.71 feet to the point of beginning.

Subject to reservations, restrictions and easements appearing of record.

Access to said tract shall be by the route identified in Exhibit "A" attached here to and incorporated by reference.

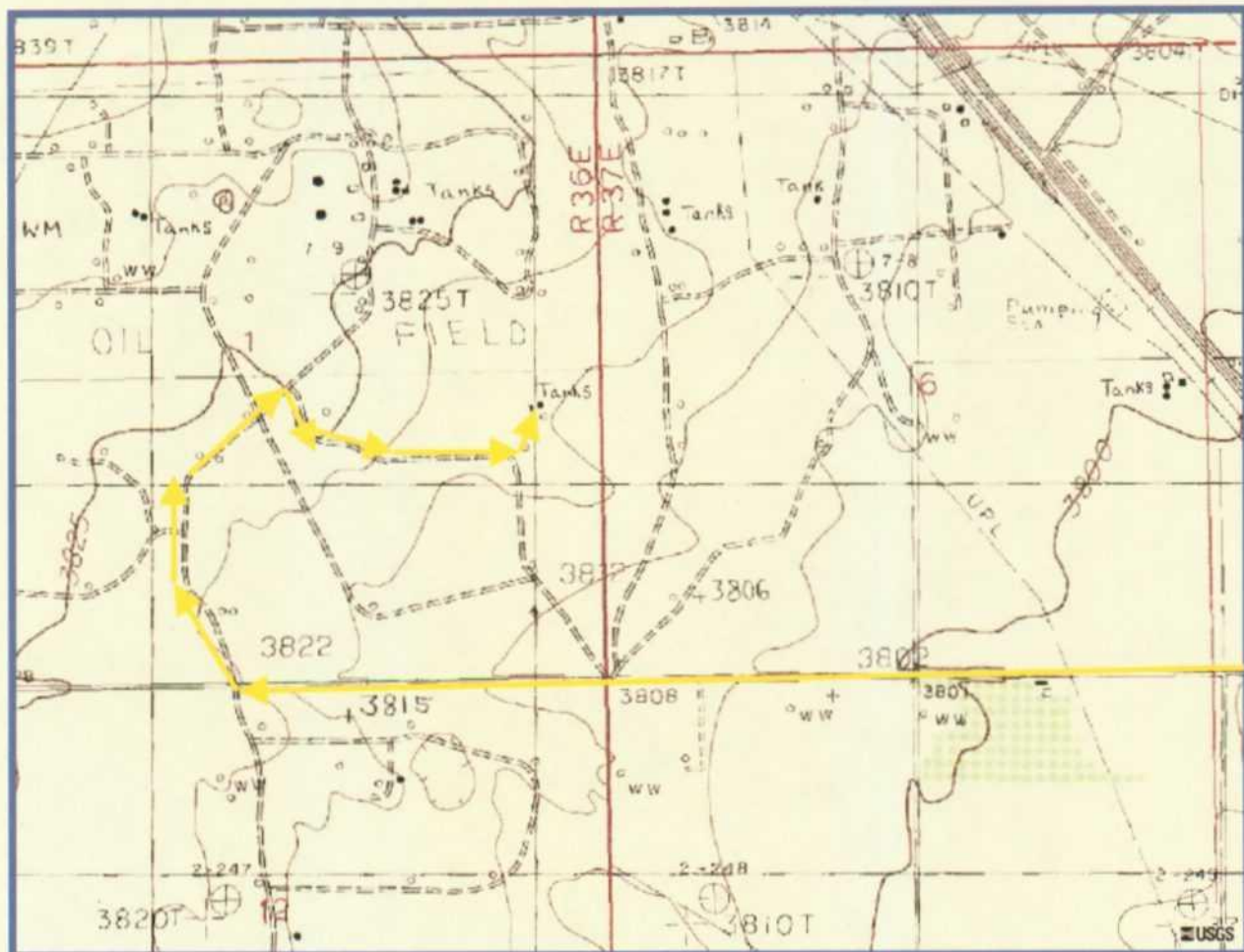
Said easement is given for the purpose of conducting an investigation and remediation of contamination believed to exist at the site of the abandoned Araho, Inc. injection well facility located on the property described herein, which investigation may include drilling, constructing and maintaining upon the Property a monitor well or wells with which the Oil Conservation Division will use to assess and monitor contaminants believed to exist below the surface, routine visits to the Property, ingress and egress to the Property, sampling and inspecting the aforementioned monitor wells following initial construction, excavation of the property to investigate the nature and extent of contaminants believed to exist, excavation of the Property to remove any contamination found, and other activities inherent in the aforesaid investigation and remediation. Said easement shall terminate two years from the date signed unless terminated sooner by the Division's filing of a notice that it has concluded its investigation and remediation activities at the site. The City agrees not to unreasonably withhold an extension of this Easement if the Division files a notice that it has not concluded its investigation and remediation activities at the site.

My commission expires:

## Exhibit A

Yellow arrows highlight the driving directions from the Hobbs – Lovington Highway. The route is long but a fence now blocks an old lease road that used to be the most direct route.

Map: 7.5 Topographic Lovington SE Quad.



## Exhibit B

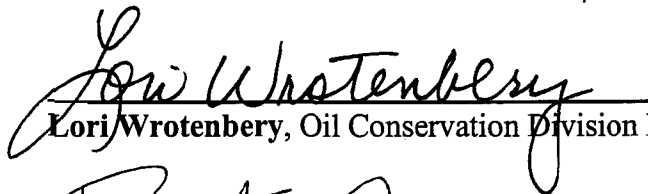
### ADDENDUM

The following term and conditions are made part of the Temporary Grant of Easement and are set forth for the purpose of protecting the City of Lovington's interests in this matter.


1. Regarding real property owned by the City, the Division will conduct no activity off of the Property without the express written consent of City.
2. The Division will not landfarm contaminated soil on the Property.
3. All activity undertaken by the Division will be at its own expense.
4. The Division will give the City 48 hours notice of all activities to be conducted on the Property.
5. Select City personnel and its agent(s) shall have unrestricted access to the Property, considering reasonable health and safety rules set forth by the Division.
6. The Division will contemporaneously copy all correspondence, reports, sampling results, and the like to the City.
7. Any fill material brought onto the Property by Division shall be not unlike background soils.
8. For the purposes set forth in the Easement, the Division agrees that Navajo Refining Company, including any parent or subsidiary, is not an agent, employee or contractor of the Division.
9. The Easement, Exhibit "A" and this Addendum are binding upon the Division, its agents, employees, and contractors and the Division agrees to provide each with a copy of same.

WITNESS my hand and seal this 2 day of September, 2003.

By:

  
Lori Wrotenbery, Oil Conservation Division Director

By:

  
Robert Castillo, Administrative Services Division Director


## **Exhibit B**

### **ADDENDUM**

The following term and conditions are made part of the Temporary Grant of Easement and are set forth for the purpose of protecting the City of Lovington's interests in this matter.

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WITNESS my hand and seal this \_\_\_\_ day of \_\_\_\_\_, 2003.

By:   
Lori Wrotenberg, Oil Conservation Division Director

By: \_\_\_\_\_  
Robert Castillo, Administrative Services Division Director



*LAW OFFICES*

**HEIDEL, SAMBERSON, NEWELL, COX & McMAHON**

C. GENE SAMBERSON  
MICHAEL T. NEWELL  
LEWIS C. COX, III  
PATRICK B. McMAHON

311 NORTH FIRST STREET  
POST OFFICE DRAWER 1599  
LOVINGTON, NM 88260  
TELEPHONE (505) 396-5303  
FAX (505) 396-5305

F.L. HEIDEL  
(1913-1985)

**RECEIVED**

AUG 26 2003

Oil Conservation Division

August 21, 2003

David Brooks, Esq.  
1220 So. St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Araho, Inc. Scope of Work and Bid Request**

Dear Mr. Brooks:

As per our conversation, please find enclosed a copy of the Temporary Grant of Easement and an original Addendum. The last sentence of the easement has been edited as you requested.

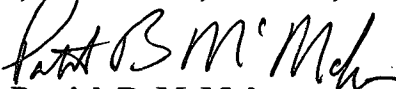
Please have Ms. Wrotenbery sign the Addendum and return to my office. Upon receipt, I will have Mayor Harris execute the Easement and then forward both originals to you.

If you have any questions, please do not hesitate to call.

Sincerely,

**HEIDEL, SAMBERSON, NEWELL, COX & McMAHON**

By:

  
Patrick B. McMahon

PBM: hg  
Enclosures  
cc: Pat Wise

### **ADDENDUM**

The following terms and conditions are made part of the Temporary Grant of Easement and are set forth for the purpose of protecting the City of Lovington's interests in this matter.

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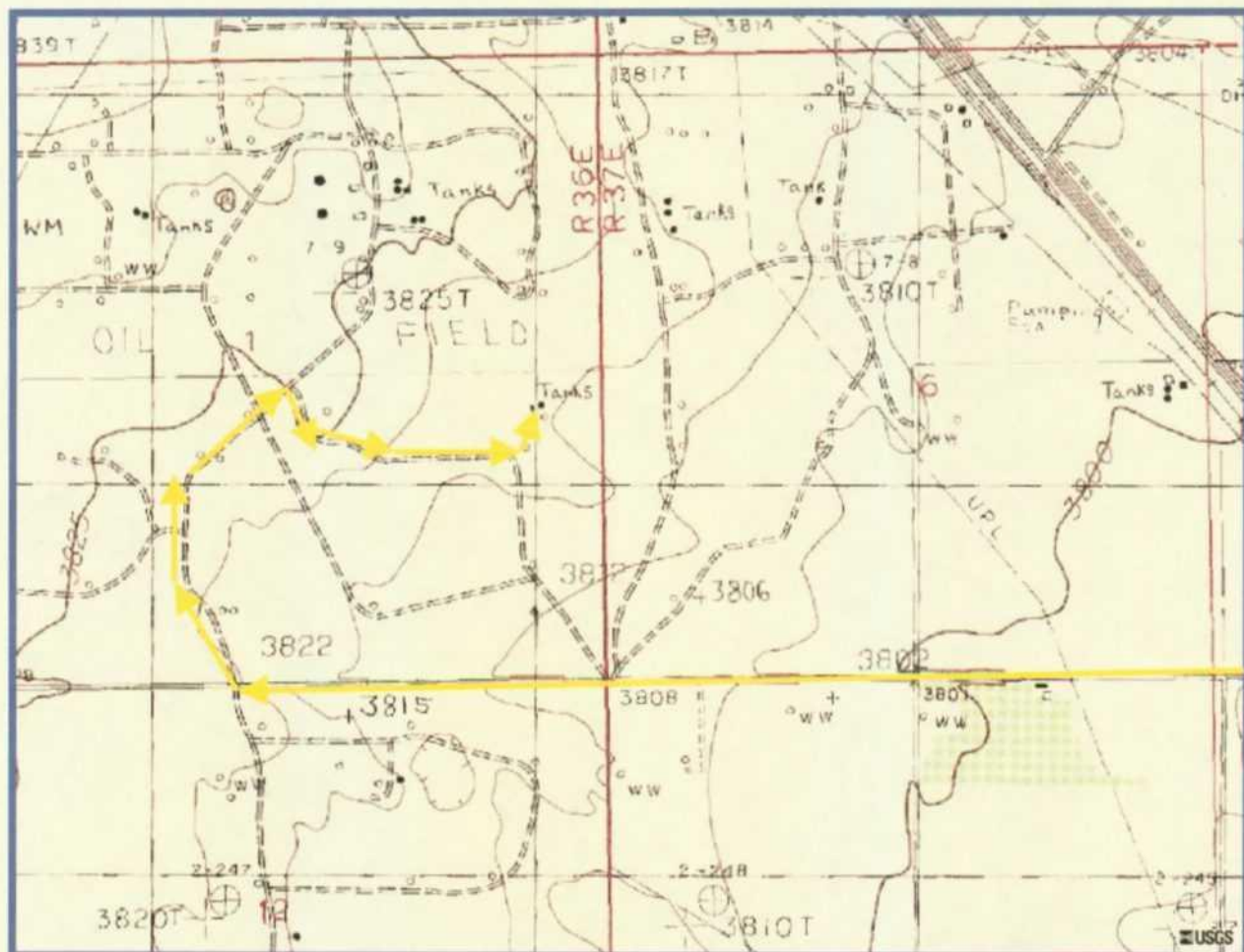
**WITNESS** my hand and seal this \_\_\_\_ day of \_\_\_\_\_, 2003.

By: \_\_\_\_\_  
**Lori Wrotenbery, Director**

## Exhibit A

Yellow arrows highlight the driving directions from the Hobbs – Lovington Highway. The route is long but a fence now blocks an old lease road that used to be the most direct route.

Map: 7.5 Topographic Lovington SE Quad.



*LAW OFFICES*

**HEIDEL, SAMBERSON, NEWELL, COX & McMahon**

C. GENE SAMBERSON  
MICHAEL T. NEWELL  
LEWIS C. COX, III  
PATRICK B. McMahon

311 NORTH FIRST STREET  
POST OFFICE DRAWER 1599  
LOVINGTON, NM 88260  
TELEPHONE (505) 396-5303  
FAX (505) 396-5305

F.L. HEIDEL  
(1913-1985)

RECEIVED

August 5, 2003

AUG 07 2003

OIL CONSERVATION  
DIVISION

Martyne J. Kieling  
The Energy, Minerals and Natural Resource  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**Re: Araho, Inc. Scope of Work and Bid Request**

Dear Ms. Kieling,

As per the conversation between myself and you, Mr. Brooks and Mr. Anderson, I visited with the City Manager regarding the Addendum to the access agreement for the Araho site. It is my understanding that the OCD is not willing to agree to the Addendum given the language of paragraph seven. Paragraph seven states, "The Division and the City will mutually agree to the clean up standards of the soil and groundwater at or under the Property". According to Mr. Brooks, the OCD does not want to set a precedent of agreeing to clean up standards with surface owners. It is my understanding, based upon said conversation, that the OCD has not done so previously. If they have, please advise.

After discussion of this issue with my client, the City is willing to remove the objectionable language. Attached is an amended Addendum.

However, please be advised that by removing said language the City is in no way waiving any objection it may have to any and all clean up standards that the OCD proposes for the Araho site. The City reserves the right to review and comment upon any and all such clean up standards. The City fully intends to review clean up under the laws, ordinances and/or regulations that are in place at the time those standards are set.

In addition, to avoid confusion regarding the definition of "uncontaminated" fill material, as used in paragraph eight, and to be fair to the City and the OCD, I have changed that language. Paragraph eight now relates fill material to background soils. Please review this change as the new language was not discussed during our conversation.

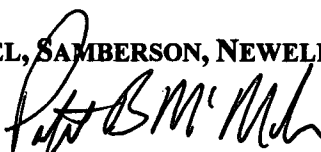
Letter to Martyne J. Kieling  
OCD  
August 5, 2003  
Page two.

Please contact me upon your review.

Sincerely,

HEIDEL, SAMBERSON, NEWELL, COX & MCMAHON

By:

  
Patrick B. McMahon

PBM:cd

pc: Pat Wise, City Manager  
CITY OF LOVINGTON

### **ADDENDUM**

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**WITNESS** my hand and seal this \_\_\_\_ day of \_\_\_\_\_, 2003.

By: \_\_\_\_\_  
**Lori Wrotenberry, Director**

## LAW OFFICES

## HEIDEL, SAMBERSON, NEWELL, COX &amp; MCMAHON

C. GENE SAMBERSON  
MICHAEL T. NEWELL  
LEWIS C. COX, III  
PATRICK B. MCMAHON

311 NORTH FIRST STREET  
POST OFFICE DRAWER 1599  
LOVINGTON, NEW MEXICO 88260  
TELEPHONE (505) 396-5303  
FAX (505) 396-5305

F.L. HEIDEL  
(1913-1985)

TELECOPY TRANSMITTAL SHEET

## CONFIDENTIALITY NOTE

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\*\*\*\*\*

DATE: August 1, 2003TIME: 4:00pmTO: Martyne J. Kieling  
OCD

(505) 476-3462

Re: Araho, Inc. Scope of Work and Bid Request

YOU SHOULD RECEIVE 4 PAGE(S) OF COPY, INCLUDING THIS COVER PAGE. PLEASE NOTIFY US IMMEDIATELY AT (505) 396-5303 IF NOT RECEIVED PROPERLY.

<input type="checkbox"/> FOR YOUR INFORMATION/RECORDS	<input type="checkbox"/> PER YOUR REQUEST
<input type="checkbox"/> AS WAS DISCUSSED	<input type="checkbox"/> FOR YOUR COMMENTS
<input checked="" type="checkbox"/> FOR YOUR REVIEW	<input type="checkbox"/> PLEASE CALL ABOUT THIS

---

If you have any questions, please do not hesitate to call.

---

IF CHECKED ORIGINAL WILL BE FORWARDED TO YOU BY:  
☐ FEDERAL EXPRESS ☒ REGULAR MAIL

THANK YOU,

HEIDEL, SAMBERSON, NEWELL, COX &amp; MCMAHON

  
By: Cheryl Dudley, Secretary for,  
Patrick B. McMahon

*LAW OFFICES*

**HEIDEL, SAMBERSON, NEWELL, COX & McMahon**

C. GENE SAMBERSON  
MICHAEL T. NEWELL  
LEWIS C. COX, III  
PATRICK B. McMahon

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LOVINGTON, NM 88260  
TELEPHONE (505) 396-5303  
FAX (505) 396-5305

F.L. HEIDEL  
(1913-1985)

August 1, 2003

Martyne J. Kieling  
The Energy, Minerals and Natural Resource  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**Re: Araho, Inc. Scope of Work and Bid Request**

Dear Ms. Keeling,

As per our conversation, please find attached the amended Addendum. Previously, the OCD had concerns regarding item numbers 1, 2, 5, 6, 7 and 8 of the Addendum. I have modified item numbers 1, 5 and 6 to suit your requests.

The City is not willing to amend item numbers 2, 7 and 8 for the following reasons. First, the City's grant to Araho does not give them the right to remediate soils on site. Whether its referred to as "land farming", "composting" or otherwise, the OCD has no right to undertake this activity on site. The protection of the public water source outweighs any additional costs for offsite remediation.

Second, on numerous of occasions, OCD has worked with oil companies to arrive at mutually acceptable cleanup standards. These cleanup standards, for various reasons, have deviated from OCD's Guidelines. The City is aware of instances where the OCD has implemented clean up standards that were below those set forth in the Guidelines, as well as, some that were above. If you would like specific examples of OCD and oil company cooperation, I will provide same. The City sees no reason why the OCD cannot undertake similar efforts in the Araho matter. In addition, under NMSA Section 3-27-3, the City has authority to regulate activities in its well field for the protection of the public water source.

Lastly, the City is not willing to allow contaminated dirt to be used as backfill. The term suggested by OCD, "commercially available clean fill", could include soils with THP levels above background. The City did not grant Araho the right to use contaminated soil to backfill excavations at the site.



Letter to Martyne Keeling  
OCD  
August 1, 2003  
Page two.

Please consider that the City is not trying to increase any costs to OCD. In fact, the City has not asked for any monetary compensation for this Access Agreement. The City's primary concern is the protection of the public water source.

Sincerely,

HEIDEL, SAMBERSON, NEWELL, COX & MCMAHON

By:

  
Patrick B. McMahon

PBM:cd  
Enclosure  
pc w/encl:

Pat Wise, City Manager  
CITY OF LOVINGTON

## ADDENDUM

The following terms and conditions are made part of the Temporary Grant of Easement and are set forth for the purpose of protecting the City of Lovington's interests in this matter.

1. Regarding real property owned by the City, the Division will conduct no activity off of the Property without the express written consent of City.
2. The Division will not land farm contaminated soil on the Property.
3. All activity undertaken by the Division will be at its own expense.
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5. Select City personnel and its agent(s) shall have unrestricted access to the Property, subject to compliance with reasonable health and safety rules set forth by the Division.
6. The Division will contemporaneously copy all correspondence, reports, sampling results, and the like to the City.
7. The Division and the City will mutually agree to the clean up standards of the soil and groundwater at or under the Property.
8. Any fill material brought onto the Property by Division shall be uncontaminated. *Background*
9. For the purposes set forth in the Easement, the Division agrees that Navajo Refining Company, including any parent or subsidiary, is not an agent, employee or contractor of the Division.
10. The Easement, Exhibit "A" and this Addendum are binding upon the Division, its agents, employees, and contractors and the Division agrees to provide each with a copy of same.

WITNESS my hand and seal this \_\_\_\_ day of \_\_\_\_\_, 2003.

By: \_\_\_\_\_  
Lori Wrotenberry, Director

# 1 OK  
# 2 OK 20 →  
# 3 OK Future 760  
# 4 OK Oil Piers 6165  
Good L.  
# 5 OK  
# 6 OK Crevator 20  
# 7 OK Amboss 30  
# 8 ~~OK~~ OK ? Prox 115  
Sample For  
Full TCLP  
General Chem  
Soil  
one composite.  
\$6,000  
\$100,000

TRANSACTION REPORT

P. 01

AUG-01-2003 FRI 04:11 PM

FOR:

RECEIVE

DATE	START	SENDER	RX TIME	PAGES	TYPE	NOTE	M#	DP
AUG-01	04:04 PM	505 396 5310	6' 39"	4	RECEIVE	OK		

## LAW OFFICES

## HEIDEL, SAMBERSON, NEWELL, COX &amp; MCMAHON

C. GENE SAMBERSON  
MICHAEL T. NEWELL  
LEWIS C. COX, III  
PATRICK B. MCMAHON

311 NORTH FIRST STREET  
POST OFFICE DRAWER 1599  
LOVINGTON, NEW MEXICO 88260  
TELEPHONE (505) 396-5303  
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TELECOPY TRANSMITTAL SHEET

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\*\*\*\*\*

DATE: June 16, 2003TIME: 9:23AMTO: **Martyne Kieling**  
**NMOCD**

(505) 476-3462

Re: **City of Lovington, New Mexico**

YOU SHOULD RECEIVE 5 PAGE(S) OF COPY, INCLUDING THIS COVER PAGE. PLEASE NOTIFY US IMMEDIATELY AT (505) 396-5303 IF NOT RECEIVED PROPERLY.

<input type="checkbox"/> FOR YOUR INFORMATION/RECORDS	<input type="checkbox"/> PER YOUR REQUEST
<input type="checkbox"/> AS WAS DISCUSSED	<input type="checkbox"/> FOR YOUR COMMENTS
<input checked="" type="checkbox"/> FOR YOUR REVIEW	<input type="checkbox"/> PLEASE CALL ABOUT THIS

Dear Ms. Kieling,

The enclosed was also e-mailed to you.

If you have any questions and/or comments, please do not hesitate to call.

---

IF CHECKED ORIGINAL WILL BE FORWARDED TO YOU BY:  
☐ FEDERAL EXPRESS ☐ REGULAR MAIL

THANK YOU,

HEIDEL, SAMBERSON, NEWELL, COX &amp; MCMAHON

  
By: Cheryl Dudley, Secretary for,  
Patrick B. McMahon

## TEMPORARY GRANT OF EASEMENT

CITY OF LOVINGTON, P.O. Box 1269, Lovington New Mexico, 88260 (hereinafter referred to as "City"), for consideration, grants to the NEW MEXICO ENERGY, MINERAL AND NATURAL RESOURCES (hereinafter referred to as "EMNRD"), and its OIL CONSERVATION DIVISION (hereinafter referred to as "Division"), their agents, employees and contractors, a temporary and limited easement in, to, upon and over all that portion of the following described real estate in Lea County, New Mexico (hereinafter referred to as "the Property"), together with reasonable access thereto:

### **SURFACE ACCESS ONLY:**

A tract of land containing 1 acre, more or less, and being a certain part of the southeast quarter (SE/4) of Section 1, Township 17 South (T. 17 S.), Range 36 East (R. 36 E.), N.M.P.M., Lea County, New Mexico, being more particularly described as follows:

Beginning at a point, the Northeast corner of this tract, from which the Southeast corner of the said Section 1 bears North 89°51' East, a distance of 461.4 feet, and South, a distance of 2291 feet; thence, South 89°51' West, a distance of 208.71 feet to the Northwest corner of this tract; thence, South, a distance of 208.71 feet to the Southwest corner of this tract; thence, North 89°51' East, a distance of 208.71 feet to the Southeast corner of this tract; thence, North, a distance of 208.71 feet to the point of beginning.

Subject to reservations, restrictions and easements appearing of record.

Access to said tract shall be by the route identified in Exhibit "A" attached hereto and incorporated by reference.

Said easement is given for the purpose of conducting an investigation and remediation of contamination believed to exist at the site of the abandoned Araho, Inc. injection well facility located on the Property described herein, which investigation may include drilling, constructing and maintaining upon the Property a monitor well or wells with which the Oil Conservation Division will use to assess and monitor contaminants believed to exist below the surface, routine visits to the Property, ingress and egress to the Property sampling and inspecting the aforementioned monitor wells following initial construction, excavation of the Property to investigate the nature and extent of contaminants believed to exist, excavation of the Property to remove any contamination found, and other activities inherent in the aforesaid investigation and remediation. Said easement shall terminate two years from the date signed unless terminated sooner by the Division's filing of a notice that it has concluded its investigation and remediation activities at the site. The City agrees not to unreasonably withhold an extension of this Easement when the Division files a notice that it has concluded its investigation and remediation activities at the site.

This Easement is contingent upon the Division's acceptance of the terms and conditions set forth in the Addendum attached hereto as Exhibit "B" and incorporated by reference.

WITNESS my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2003.

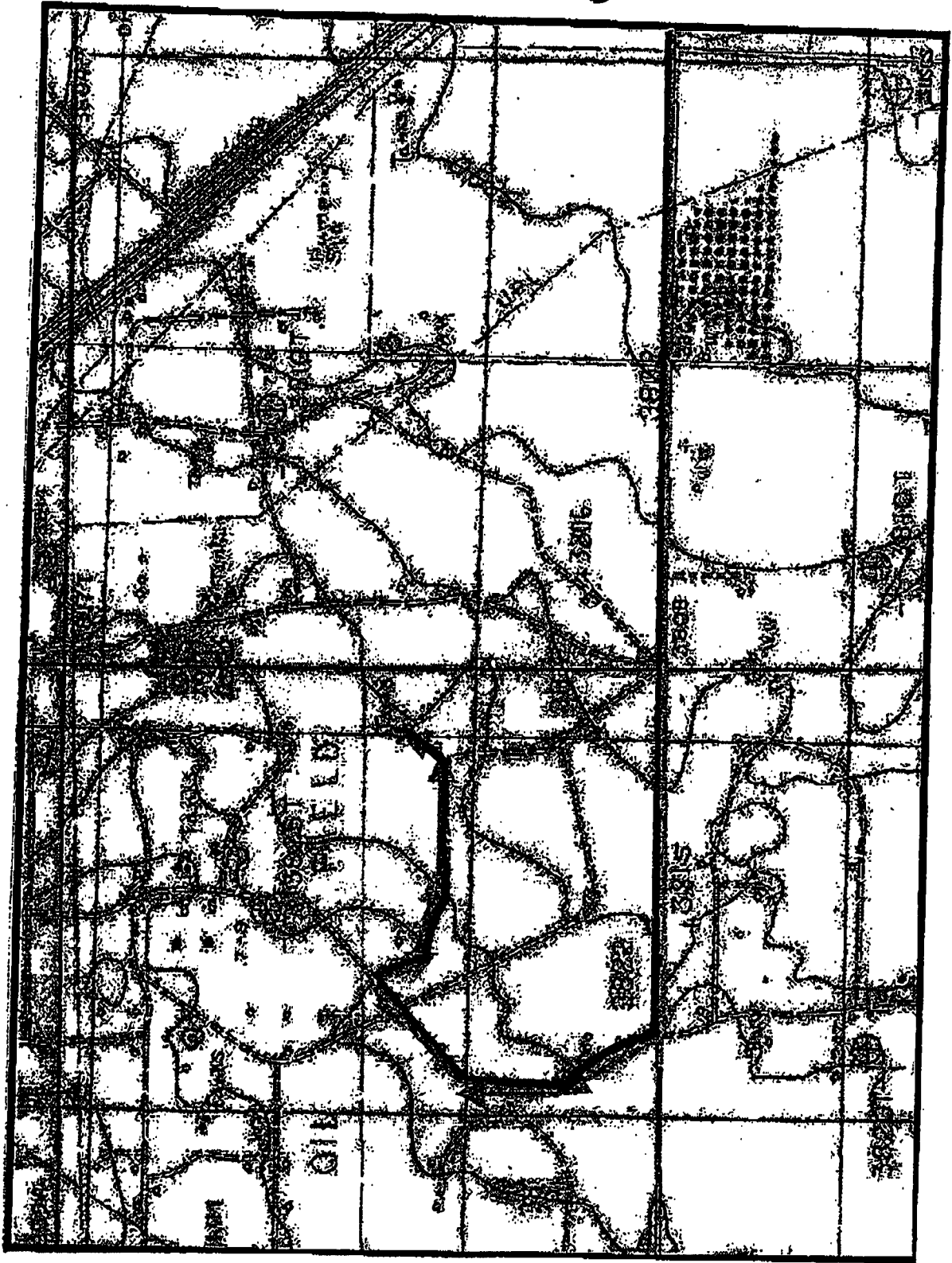
CITY OF LOVINGTON  
Lea County, New Mexico

By: \_\_\_\_\_  
Troy J. Harris, Mayor

ATTEST:

By: \_\_\_\_\_  
Rhonda Jones, City Clerk

Yellow arrows highlight the driving directions from the Hobbs-Lovington Highway. The route is long but a fence now blocks an old lease road that used to be the most direct route.



## ADDENDUM

The following term and conditions are made part of the Temporary Grant of Easement and are set forth for the purpose of protecting the City of Lovington's interests in this matter.

1. The Division will conduct no activity off of the Property without the express written consent of City.
2. The Division will not landfarm contaminated soil on the Property. — *wanting to compost at site.*
3. All activity undertaken by the Division will be at its own expense.
4. The Division will give the City 48 hours notice of all activities to be conducted on the Property.
5. Select City personnel and its agent(s) shall have unrestricted access to the Property, considering reasonable health and safety rules set forth by the Division. *Subject to . . .*
6. The Division will contemporaneously copy all correspondence, reports, e-mails, memos, sampling results, and the like to the City.
7. The Division and the City will mutually agree to the clean up standards of the soil and groundwater at or under the Property. *Consult on clean up levels.*
8. *Community Available* Any fill material brought onto the Property by Division shall be uncontaminated.
9. For the purposes set forth in the Easement, the Division agrees that Navajo Refining Company, including any parent or subsidiary, is not an agent, employee or contractor of the Division.
10. The Easement, Exhibit "A" and this Addendum are binding upon the Division, its agents, employees, and contractors and the Division agrees to provide each with a copy of same.

WITNESS my hand and seal this \_\_\_\_ day of June, 2003.

By: \_\_\_\_\_  
Lori Wrotenberry, Director





## **ADDENDUM**

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WITNESS my hand and seal this \_\_\_\_ day of June, 2003.

By:

**Lori Wrotenberry, Director**

**CONTROLLED RECOVERY, INC.**  
P.O. Box 388 • Hobbs, New Mexico 88241-0388  
(505) 393-1079

WASTE TICKET  
"At Cost"  
Misc TRASH

Bill to \_\_\_\_\_

Address \_\_\_\_\_

Company/Generator \_\_\_\_\_

Lease Name Arabo SWD

Trucking Company Diamondback Vehicle Number 503 Driver (Print) Mike Jennings

Date 11/06/03 Time 1130 a.m.

**Type of Material**

- ☒ Exempt ☐ Tank Bottoms ☐ Fluids  
☐ Non-Exempt C117 ☒ Other Material  
C138 ☐ Soils List Description Below

**DESCRIPTION**

OC D  
☆ certificate of waste status  
Below grade  
Pipe & assorted trash from  
Pipe & tank removal

Volume of Material ☐ Bbls. ☒ Yard 10 ☐ Gallons

☐ Wash Out ☐ Call Out ☐ After Hours ☐ Debris Charge

This statement applicable to exempt waste only.  
I represent and warrant that the wastes are: generated from oil and gas exploration and production operations; exempt from Resource Conservation and Recover Act (RCRA) Subtitle C Regulations; and not mixed with non-exempt wastes.

Agent \_\_\_\_\_  
(Signature)

CRI Representative \_\_\_\_\_  
(Signature)

**TANK BOTTOMS**

	Feet	Inches		
1st Gauge			BBLS Received	BS&W %
2nd Gauge			Free Water	
Received			Total Received	

NO 49737

White - CRI

Canary - CRI Accounting

Pink - CRI Pilot

Gold - Transporter

SUPERIOR FERTILIZER SERVICE, INC.

1. 365 <sup>Job</sup> TRASH Per Steve

WASTE TICKET

"At Cost"

Misc TRASH

P2PPE

CAMINO REAL ENVIRONMENTAL CENTERF

1000 Camino Real Boulevard  
Sunland Park, NM 88063  
(505) 589-9440

Bill Acct: ERHINO ENVIRONMF Haul Acct: RHINO ENVIRONM Ticket#:E523829F  
E00-0000628F 00-0000628

Vehicle# : 003 PO# : ---In--- ---Out---  
TT = 200-Commercial Date 10/28/03 10/28/03  
PT = 1-Charge Check # : Time 14:28 14:28

M	-1E	Material Types	Rate/UM	Vol/QY	lbs	Tax	Tip
MT = 30-Commercial	Tot -0F			5	0	\$0.00	

E Tip Amt @  
ESpec Amt  
EAmt Tend  
EChange 0.00F  
E Amount =====F

VOL/QY/CYD = 5.00

Driver: [Signature] Weighmaster: \_\_\_\_\_ -1FRANCISCO CELIS -0

PPE F  
PNEW HRS. MON. - FRI. 7AM-4PM  
1-CELL 7

WASTE TICKET

"At Cost"

Misc. TRASH

P2PPE

CAMINO REAL ENVIRONMENTAL CENTERF

1000 Camino Real Boulevard  
Sunland Park, NM 88063  
(505) 589-9440

Bill Acct: ERHINO ENVIRONMF Haul Acct: RHINO ENVIRONM Ticket#:E526035F  
E00-0000628F 00-0000628

Vehicle# : PO# : ---In--- ---Out---  
TT = 200-Commercial Date 11/06/03 11/06/03  
PT = 1-Charge Check # : Time 14:33 14:33

M	-1E	Material Types	Rate/UM	Vol/QY	lbs	Tax	Tip
MT = 30-Commercial	Tot -0F			14	0	\$0.00	

E Tip Amt @  
ESpec Amt 0.00 F  
EAmt Tend  
EChange 0.00F  
E Amount =====F

VOL/QY/CYD = 14.00

Driver: [Signature] Weighmaster: \_\_\_\_\_ -1FRANCISCO CELIS -0

PPE F  
PNEW HRS. MON. - FRI. 7AM-4PM  
1-CELL 7

WASTE TICKET

"At Cost"

Misc. TRASH

PEPPE

CAMINO REAL ENVIRONMENTAL CENTER

1000 Camino Real Boulevard  
 Sunland Park, NM 88063  
 (505) 589-9440

Bill Acct: ERHINO ENVIRONMF Haul Acct: RHINO ENVIRONM Ticket#: E525082F  
 E00-0000628F 00-0000628

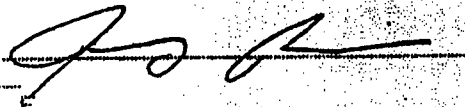
Vehicle# : 502-R  
 TT = 200-Commercial  
 PT = 1-Charge

POW :  
 Check # :

---In--- ---Out---  
 Date 11/06/03 11/06/03  
 Time 09:29 09:29

Material Types	Rate/UM	Vol/QY	lbs	Tax	Tip
-1E					
Tot -0F					
PT = 30-Commercial	\$5.00/CY	15	0	\$0.00	
	E	Tip Amt	@		F
		ESpec Amt	0.00		F
		E Amt Tend			
		E Change	0.00F		
		E	=====F		
		E Amount			

VOL/QY/CYD = 15.00

Driver: 

Weighmaster: -1MARIANO VALLE

-0

PPE

ONEW HRS. MON.- FRI. 7AM-4PM  
 1-CELL 7

FROM : CHAPARRAL SERVICE INC

PHONE NO. : 505 394 2426

Oct. 29 2003 11:38AM P2

*Chaparral Service, Inc.***INVOICE**INVOICE NO:  
0123813-IN**"At Cost"**P.O. DRAWER 1769 • WEST TEXAS AVE.  
OFFICE PHONE (505) 394-2545  
HOBBS PHONE (505) 397-3044  
JAL YARD (505) 395-2010  
EUNICE, NEW MEXICO 88231**BILL TO:** RHINO ENVIRONMENTAL  
P.O. BOX 57180  
ALBUQUERQUE NM 87187**WO#:**  
**AFE:**  
**LEASE:** ARAHO DISPOSAL  
**WELL:**

Customer No.			Terms	Date
R022			NET 30	10/22/03
Quantity of Hrs./BBLs	Description	Unit Price	Extended Price	
14.00	VACUUM TRUCK W/OPERATOR - 671 ✓			
13.50	VACUUM TRUCK W/OPERATOR - 652 ✓			
14.00	VACUUM TRUCK W/OPERATOR - 674 ✓			
1.00	FUEL SURCHARGE			
W/O #11678-13031-11241				
Work Done <u>10-15-03</u>				
<div>47.50 Hours</div> <div><div>14 13.5 14 41.5 Hours</div></div> <div>Not yet Billed For Vacuum truck 10 Hour Days</div> <div>4.15 days x \$750 = \$3112.50</div>				

Customer Signature

Date

11/04/03 04:17pm P. 004

PHONE NO. : 505 394 2426

Oct. 28 2003 11:38AM P3

*Chaparral Service,*



# INVOICE

Lewis

631-8126

**INVOICE NO:**  
0123832-IN

P.O. DRAWER 1769 • WEST TEXAS AVE.  
OFFICE PHONE (505) 394-2545  
HOBBS PHONE (505) 397-3044  
JAL YARD (505) 395-2010  
EUNICE, NEW MEXICO 88231

**BILL TO:** RHINO ENVIRONMENTAL  
P.O. BOX 57180  
ALBUQUERQUE NM 87187

WO#:  
AFE:  
LEASE: ARAHO DISPOSAL  
WELL:

[illegible]

FROM : CHAPARRAL SERVICE INC

PHONE NO. : 505 394 2426

Oct. 28 2003 11:39AM P4

Chaparral Service, Inc.



## INVOICE

P.O. DRAWER 1769 • WEST TEXAS AVE.  
OFFICE PHONE (505) 394-2545  
HOBBS PHONE (505) 397-3044  
JAL YARD (505) 395-2010  
EUNICE, NEW MEXICO 88231

INVOICE NO.  
0123865-IN

At Cost

BILL TO: RHINO ENVIRONMENTAL  
P.O. BOX 57180  
ALBUQUERQUE NM 87187

WO#:   
AFE:   
LEASE: ARAHO DISPOSAL  
WELL:

Customer No.		Terms		Date
R022		NET 30		10/22/03
Quantity of Hrs./BBLs	Description	Unit Price	Extended Price	
12.00	VACUUM TRUCK W/OPERATOR - 674 ✓			
12.00	VACUUM TRUCK W/OPERATOR - 671 ✓			
1.00	FUEL SURCHARGE			
W/O #11245-13222				
Work Done 10-17-03				
SUB TOTAL				
TAX				
NONTAX				
TOTAL				

Customer Signature

Date

FROM : CHAPARRAL SERVICE INC

PHONE NO. : 505 394 2426

Oct. 28 2003 11:39AM P5

**Chaparral Service, Inc.****INVOICE**INVOICE NO:  
0123909-INP.O. DRAWER 1789 • WEST TEXAS AVE  
OFFICE PHONE (505) 394-2845  
HOBBS PHONE (505) 397-3044  
JAL YARD (505) 395-2010  
EUNICE, NEW MEXICO 88231BILL TO: RHINO ENVIRONMENTAL  
P.O. BOX 57180  
ALBUQUERQUE NM 87187WON:  
AFE:  
LEASE: ARAHO DISPOSAL FACILITY  
WELL:FRESH AIR / SAFETY TRAILER  
AT COST  
CONTRACT LINE  
ITEM 0605

Customer No.	Terms	Date	
R022	NET 30	10/23/03	
Quantity of Hrs./BBLs	Description	Unit Price	Extended Price
1.00	10/15/03 #2547 ✓ FRESH AIR TRAILER		
10.00	10/16/03 #2548 ✓ SAFETY SUPERVISOR W/VEHICLE		
1.00	THREE WAY MONITOR		
1.00	FRESH AIR TRAILER		
1.00	FUEL SURCHARGE		
5.00	10/17/03 #2549 ✓ SAFETY SUPERVISOR W/VEHICLE		
1.00	THREE WAY MONITOR		
1.00	FRESH AIR TRAILER		
1.00	FUEL SURCHARGE		
1.00	10/20/03 #2551 ✓ FRESH AIR TRAILER		
10.00	10/21/03 #2552 ✓ SAFETY SUPERVISOR W/VEHICLE		
1.00	THREE WAY MONITOR		
1.00	FRESH AIR TRAILER		
1.00	FUEL SURCHARGE		
15.00	10/21/03 #11253 VACUUM TRUCK W/OPERATOR - 674 ✓		
1.00	FUEL SURCHARGE		
12.00	10/21/03 #13231 VACUUM TRUCK W/OPERATOR - 671 ✓		
1.00	FUEL SURCHARGE		

VAC TR 1984.5

SUB TOTAL

TAX  
NONTAX

TOTAL

5 days

\$300 ready

\$1500 ✓

Customer Signature

Date



3,422.15  
Fresh water  
Chaparral Invoice

1,105  
260  
125.25  
1490.25 ✓

+ m&s Trucking  
682.40 ✓

+ Pate truckin  
1249.50 ✓  
\$ 3422.15 ✓ ~~Billed on~~

4,500.00 6 days at 750  
vacuum Truck Jet

Chaparral  
15<sup>th</sup> 4.15  
16<sup>th</sup> 2.  
17<sup>th</sup> 2.4  
21<sup>st</sup> 2.7

Pate 21<sup>st</sup> 11.25 days  $\approx$  11.75 days  
0.5  
Billed For 6 days only

\$ 2451.25 26.5 Hours  
Hot oil Truck at 92.00

Pate 8  
11  
7  
26

Radiation Safety NORM

147.94  
242.81  
390.75 ✓ on

41.5 chaparral	4.15 Days	15 <sup>th</sup> 3112.5
20 chaparral	2 days	16 <sup>th</sup> 1500.00
26 <sup>th</sup> chaparral	2.4 days	17 <sup>th</sup> 1800.00
27 chaparral	2.7 days	21 <sup>st</sup> 2025
8 Pate ?	0.8 days	20 <sup>th</sup> 600
11 Pate ?	1.1 days	20 <sup>th</sup> 825
12 Pate Hobbit	1.2 days	375
5	0.5	900
Vacuum	0.5	<u>10762.5</u>

S.C.C. 35434  
ICC MC # 259649

TRANSPORTS  
FRAC TANKS  
VAC TRUCKS

**PATE TRUCKING CO.**  
P.O. BOX 2739, HOBBS, N.M. 88241

PHONE (505) 397-6264

BILL TO

*Rhino Environmental*

CONTRACT  
NUMBER

A.F.R.  
NUMBER

REG. OR  
PURCHASE ORDER  
NUMBER

INVOICE  
ORDER  
NUMBER **79390**

DATE  
**10-20-03**

ORDERED BY  
**STEVE DYER**

DELIVERED  
FROM

TO

LOCATION

TRUCK OR  
UNIT NO.

CAPACITY

AMOUNT  
HAULED

TIME  
OUT

AM  
PM

TIME  
IN

AM  
PM

HOURS  
CHGD

DELIVERED BY

WELL OR  
RIG NO

DESCRIPTION

HR.

BBL

RATE

AMOUNT

*Rinsed out unit 73. Loaded  
120 Bbls. of fresh water and took  
to location. Went to T&I for a  
second load.*

8

Hrs

260

bbls

#KCL

Disp

Disp

Other

TOP GAUGE

BOTTOM GAUGE

SET DATE

RELEASE DATE

HIGHWAY MILES

LOADED

UNLOADED

TERMS.

AUTHORIZED BY

TAX

NET TOTAL

OPERATOR OR DRIVER

*Bobby [Signature]*

*Thank You*

S C C. 35434  
ICC MC # 259649

TRANSPORTS  
FRAC TANKS  
VAC TRUCKS

**PATE TRUCKING CO.**

P.O. BOX 2739, HOBBS, N.M. 88241

PHONE (505) 397-6264

COMPLETED

*Rhino Environmental*

CONTRACT  
NUMBER

A.F.C.  
NUMBER

REG. OR  
PURCHASE ORDER  
NUMBER

FIELD  
ORDER  
NUMBER

**No 79741**

DATE

**10-22-03**

ORDERED BY

**STEVE DYER**

DELIVERED  
FROM

TO

LOCATION

*Archo SWD*

WFLS OR  
HIG NO.

TRUCK OR  
UNIT NO.

*27*

CAPACITY

*75*

AMOUNT  
HAULED

TIME  
OUT

*6:30*

AM

PM

TIME  
IN

*5:30*

AM

PM

HOURS  
CHG

*11*

DELIVERED BY

*H/O*

DESCRIPTION

*Drove to Loc. Jet out  
tanks w/ hot water. Put Remains  
w/ia on ground to control  
dust.*

0 HR.

0 BBL

RATE

AMOUNT

*11*

Hrs.

bbls

#KCL

Disp

Disp

Other

TOP GAUGE

BOTTOM GAUGE

SET DATE

RELEASE DATE

HIGHWAY MILES

LOADED

UNLOADED

TERMS:

AUTHORIZED BY:

OPERATION OR DRIVER

*Joe Smith*

*x*

TAX

NET TOTAL

*Thank You*

✓

S.C.C. 35434  
ICC MC # 259649

TRANSPORTS  
FRAC TANKS  
VAC TRUCKS

**PATE TRUCKING CO.**  
P.O. BOX 2739, HOBBS, N.M. 88241

PHONE (505) 397-6264

*RHINO Environmental*

CONTRACT  
NUMBER

A.F.C.  
NUMBER

INFO. ON  
MICHAEL PATER  
NUMBER

ORDER  
NUMBER

**No 79567**

DATE

ORDERED BY

*Steve O'Neil*

DELIVERED  
FROM

LOCATION

TRUCK OR  
UNIT NO

TO

WELL OR  
FIG. NO.

DELIVERED BY

DESCRIPTION

HR. BBL

RATE

AMOUNT

*Hauled 130 BBLs of BW and unloaded  
into unit #27 and stand-by got 2 load  
of solids and hauled to Sun Dances  
and stand-by to get out there was 2 truck  
on line to get out.*

12 Hrs.

130 bbls

#KCL

Disp

Disp

*Get Out*

Other

TOP GAUGE

BOTTOM GAUGE

SET DATE

RELEASE DATE

HIGHWAY MILES

LOADED

UNLOADED

TERMS:

AUTHORIZED BY:

OPERATION ON INVOICE

TAX

NET TOTAL

*Thank You*

*6-1 PM*

*Transport brine water  
for hot oiler ✓✓*

*1-6 PM*

*Vac Truck transporting  
waste to Sundance*

Oct 28 03 10:21a

RHINO

50 797-4874

P. 1

10/24/2003 11:53

2853928744

M:5

PAGE 02

**M and S Service, Inc.****14600 Knowles Rd.****Lovington, NM 88260**

Mike 369-5611

**Invoice**

DATE	INVOICE #
10/21/2003	3109913

**BILL TO**

Rhino Environmental Services  
4807 Lovington Hwy.  
Hobbs, NM 88240

**P.O. NO.**

DESCRIPTION	QTY	RATE	AMOUNT
10/21/2003 Tck 40691, Trk #7J, Araho SWD	3.5		
10/17/2003 Tck 40685, Trk #7J, Araho SWD	3.5		
10/16/2003 Tck 40731, Trk #6L, Araho SWD	15.5		
number gallons chemical	25	11.00	275.00T
bbls fresh water	75	0.40	30.00T
Fuel Charge		182.40	182.40T
10/16/2003 Tck 40684, Trk #7J, Araho SWD	3	65.00	195.00T
<p>WALP 10/16, 10/17, 10/21</p> <p>\$ 682.40 - transport fresh water ✓</p>			
Thank you for your business.			<b>Total</b> \$2,420.64



PHONE (505) 392-6785

HC 7B-BOX 73

LOVINGTON, NEW MEXICO 88260

**Maid Service**

NO 40691

Date 11-1-03

Truck No. PL-1

Company Chaparral

Purchase Order No. X X

Base

Well No. 130

Time Out

A.M. 8

P.M. 5

A.M. 1

P.M. 4

TIME HOURS

RATE

AMOUNT

Brine Water

Fresh Water

Bbls. Hauled

Operator Team

Description of Work:

3 bl of oil 130 1225 GF  
solids from tank and treated to  
sludge disposal and to road cut

Sub Total

State Tax

Authorized By: [Signature]

TOTAL

PHONE (505) 392-6785  
HC 70 BOX 73  
LOVINGTON, NEW MEXICO 88260

**M and S Service**

**NO 40685**

Date 10-27-82

Truck No. 11

Company Chaparral

Purchase Order No. 11

Lease Baraboo Sand

Well No. 33

Time Out 10:00 A.M.  
P.M.

Time In 1:30

Brine Water 0 Fresh Water 0

Bbls Hauled 130

Operator JOCC

Description of Work: Worked 30 Bbls and Bbls

and 100 to 200 sand and disposal

to well out

TIME HOURS	RATE	AMOUNT
<u>3 1/2</u>	<u>45.00</u>	<u>157.50</u>
Sub Total		
State Tax		
TOTAL		

Authorized By: SD



## PATE TRUCKING CO., INC.

 P O BOX 2739 - MOORE, NM 88241-2739  
 TELEPHONE (505) 397-6264

## INVOICE

INVOICE NUMBER: 45609

INVOICE DATE: 10/28/03

 Voice: 800 477-9353  
 Fax: 800-477-2297

 RHINO ENVIRONMENTAL SERV.  
 P O BOX 57180  
 ALBUQUERQUE, NM 87187-7180  
 USA

PURCHASE ORDER: 81024      PRESENT TERMS: Net 30 Days      PAGE: 1

QUANTITY	ITEM NUMBER	DESCRIPTION	UNIT PRICE	EXTENSION
02		WELL-ARANG SWD		
02		CO. MANISTEVE DYER		
1		WK TKT:79567		
12.00	815	TRANS/VAC W/DRIVER #59	69.00	828.00
130.00	101	HAUL BRINE WATER	0.75	97.50
1.00	110	SET OUT FEE	60.00	60.00
1		WK TKT:79390		
8.00	506	TRANS-VAC W/DRIVER - #73	64.00	512.00
260.00	100	HAUL FRESH WATER	0.40	104.00
1		WK TKT:79741		
11.00	604	HOT OIL UNIT W/DRIVER - #27		

10/21 Transport 7hrs @ 68 = 476

10/20 Transport 8hrs @ 64 = 512

Brine H<sub>2</sub>O

Set Out Fee

Fresh Water

 97.50  
 60.00  
 104.00

1249.50

Subtotal 2,469.50

Sales Tax 151.26

TOTAL

\$2,620.76

Thank You For Your Business





Safety &amp; Environmental Solutions, Inc.

P. O. Box 1613

Hobbs, New Mexico 88241

**Invoice**

DATE	INVOICE #
10/8/2003	6386

<b>BILL TO</b>
Inter. Joe Tracey One Park Square 6501 Americas Parkway NE, Ste. 820 Albuquerque, NM 87110

*Norm Survey  
At Cost*

PROJECT		P.O. NO.	TERMS
INT03001 Norm Survey			Net 30
QUANTITY	DESCRIPTION	RATE	AMOUNT
1	Radiation Safety Officer	75.00	75.00T
1	NORM Meter	50.00	50.00T
24	Mileage	0.60	14.40T
	Subtotal		139.40
	Hobbs Gross Receipts Tax	6.125%	8.54
<i>OK JHFF</i> <i>NMO - ARA - 01 - 02</i>		<i>MINUS TAX</i>	
<b>Total</b>			\$147.94



Safety &amp; Environmental Solutions, Inc.

P. O. Box 1613  
Hobbs, New Mexico 88241**Invoice**

DATE	INVOICE #
10/22/2003	6389

<b>BILL TO</b>
Intera Joe Tracey One Park Square 6501 Americas Parkway NE, Ste. 820 Albuquerque, NM 87110

*Norm Survey  
"A Cost"*

PROJECT		P.O. NO.	TERMS
INT03001 Norm Survey			Net 30
QUANTITY	DESCRIPTION	RATE	AMOUNT
2	Radiation Safety Officer	75.00	150.00T
1	Survey Meter	50.00	50.00T
48	Mileage	0.60	28.80T
	Subtotal		228.80
	Hobbs Gross Receipts Tax	6.125%	14.01
<i>OK 7175</i>		<i>MINUS TAX</i>	
<i>NYO - ARA - 01 - 02</i>			
<b>Total</b>			<b>\$242.81</b>

*OK*



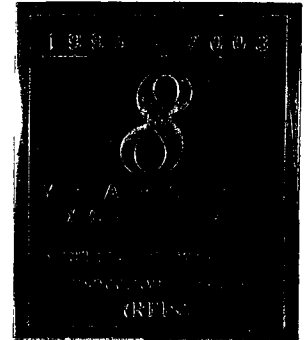
**RHOADES ENVIRONMENTAL**

# Invoice

Date	Invoice #
10/27/2003	2003-05

<b>Bill To</b>
Intera Attn.: Mr. Joseph Tracy 6501 Americas Parkway NE - Suite 820 Albuquerque, New Mexico 87110 (505) 246-1600 ext. 219

Contract  
Line Item  
# 0012



P.O. No.	Terms	Project
	Net 30	

Quantity	Description	Rate	Amount
	CGI GAS MONITOR RENTAL FOR THE NM OCD ARAHO FACILITY, LOVINGTON, NEW MEXICO  Intera Project No.: NMO-ARA-01-03  6 Days Rental (Oct. 15th - 17th & Oct. 20th - 22nd)	50.00	300.00
OK: 7/1 7/7 11/5/03 NMO - ARA - 01 - 03			
Thank you for your business.		<b>Total</b>	\$300.00

# INVOICE



**Geotech Environmental Equipment, Inc.**  
 8035 East 40th Avenue  
 Denver, Colorado 80207  
 Phone: (303)320-4764 \* Fax: (303)322-7242

INVOICE NO	PAGE
00142693	1
INVOICE DATE	
10/30/03	

Apply To:

## Bill To:

INTERA, INC.  
 ATTN: A.P. \* ONE PARK SQUARE  
 6501 AMERICAS PARKWAY N.E., SUITE 820  
 ALBUQUERQUE, NM 87110  
 PO# NMO-ARA-0101

## Ship To:

INTERA, INC.  
 ATTN: JOE TRACY \* ONE PARK SQUARE  
 6501 AMERICAS PARKWAY N.E., SUITE 8  
 ALBUQUERQUE, NM 87110  
 PO# NMO-ARA-0101

ORDER NO.	ORDER DATE	CUSTOMER NUMBER	LOC	SLSMN
181520	10/09/03	000000320097	CO	003

PURCHASE ORDER NO.	JOB NO.	SHIP VIA	COL/PPD
NMO-ARA-0101 * JOE TRACY		UPS NDA SAVER	Prepaid

ITEM NUMBER DESCRIPTION	QUANTITY ORDERED	QUANTITY TO SHIP QUANTITY RETURN/BO	UNIT PRICE	UOM DISC	NET PRICE
R8200001 RENTAL, 10.6 VOLT PID (RAE) MINIRAE 2000 ACCESSORY KIT	1.00	1.00	450.000	EA	450.00
FOR 10 DAYS * 10.10.03 THRU 10.27.03					

Contract Line  
 ITEM # 0021

NMO-ARA-01-03 &  
 Project #: NMO-ARA-01-03(N)  
 Mgr. approval: *[Signature]*  
 \$465.00 OF this is non-billable  
 to the project!  
 Can only Bill \$60.00 per day  
 our contract rates.  
 Thank You,  
*[Signature]*

### COMMENTS

!! THANK YOU FOR YOUR ORDER !!  
 PLEASE REMIT TO THE ABOVE ADDRESS  
 QUESTIONS CALL ~ 800-833-7958

### TERMS

1%-10/NET30

SALE AMOUNT	450.00
HANDLING CHARGE	.00
FREIGHT	75.05
TOTAL TAX	.00
TOTAL AMOUNT	525.05
PAYMENT AMOUNT	.00
<b>BALANCE DUE</b>	<b>525.05</b>

CUSTOMER  
COPY

1 1/2% FINANCE CHARGE ASSESSED ON PAST DUE ACCOUNTS

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

2. Page 1  
of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
NE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone ( 476-3488

5. Transporter 1 Company Name

Rhino Environmental Services, Inc.

6.

US EPA ID Number

N/A

A. Transporter's Phone

505-397-3044

7. Transporter 2 Company Name

8.

US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Rhino Environmental Services, Inc. OCD  
Goo-Yea South  
8 miles south of Hobbs on hwy 18  
Lea County

10.

US EPA ID Number

N/A

C. Facility's Phone

505-247-4646

11. Waste Shipping Name and Description

a.

Mix bottom Soils

12. Containers

No.

Type

13.  
Total  
Quantity

14.  
Unit  
Wt/Vol

1 dump 20 cy

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: PO Box 57180, Albuquerque, NM 87187

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

2. Page 1  
of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
NE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone (505) 476-3488

5. Transporter 1 Company Name

Rhino Environmental Services, Inc.

6. US EPA ID Number

N/A

A. Transporter's Phone

505-397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Rhino Environmental Services, Inc. OCD  
Goo-Yea South  
8 miles south of Hobbs on hwy 18  
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-247-4646

11. Waste Shipping Name and Description

a. Mix bottom Soils

12. Containers

No.

Type

13. Total  
Quantity

14. Unit  
Wt/Vol

1

Dump

14 yd

b.

1

14 yd

c.

1

14 yd

d.

1

14 cy

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Bitan Ellis

Signature

BEllis

Month Day Year

11/02/05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: PO Box 57180, Albuquerque, NM 87187

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

LINSEY DYER

Signature

LINSEY DYER

Month Day Year

11/02/05

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

2. Page 1  
of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
NE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone (505) 476-3488

5. Transporter 1 Company Name

Rhino Environmental Services, Inc.

6. US EPA ID Number

N/A

A. Transporter's Phone

505-397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Rhino Environmental Services, Inc. OCD  
Goo-Yea South  
8 miles south of Hobbs on hwy 18  
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-247-4646

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Dry Mixed Bottoms

1

20 g

b.

1

20 g

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: PO Box 57180, Albuquerque, NM 87187

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

Louise Dyer

Louise Dyer

11/02/03

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

2. Page 1

of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
NE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone

505 476-8488

5. Transporter 1 Company Name

Rhino Environmental Services, Inc.

6. US EPA ID Number

N/A

A. Transporter's Phone

505-397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Rhino Environmental Services, Inc. OCD  
Goo-Yea South  
8 miles south of Hobbs on hwy 18  
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-247-4646

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Dry Mixed Buttons

20 yd

b.   
c.   
d.

20 yd

20 yd

20 yd

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: PO Box 57180, Albuquerque, NM 87187

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year



# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

2. Page 1  
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3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
NE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone 505 476-3488

5. Transporter 1 Company Name

Rhino Environmental Services, Inc.

6. US EPA ID Number

N/A

A. Transporter's Phone

505-397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Rhino Environmental Services, Inc. OCD  
Goo-Yea South  
8 miles south of Hobbs on hwy 18

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description  
Lea County

N/A

12. Containers  
No. Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Dry Mixed Bottom

20

b. G C C

20

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

Non Hazardous

N/A

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: PO Box 57180, Albuquerque, NM 87187

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

Linsley Dyer

Linsley Dyer

11/01/24/03

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

2. Page 1  
of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
NE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone (505) 476-3488

5. Transporter 1 Company Name

Rhino Environmental Services, Inc.

6. US EPA ID Number

N/A

A. Transporter's Phone

505-397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Rhino Environmental Services, Inc. OCD  
Goo-Yea South  
8 miles south of Hobbs on hwy 18

10. US EPA ID Number

N/A

C. Facility's Phone

505-247-4646

11. Waste Shipping Name and Description

12. Containers

No. Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Load of mixed soil dry

15yd

b. cc a 21

15yd

c. u 21 11

15yd

d. u 21 9

15yd

D. Additional Descriptions for Materials Listed Above

u u u

Non Hazardous

E. Handling Codes for Wastes Listed Above

15yd  
N/A

15. Special Handling Instructions and Additional Information

7  
18 by 14

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

11/02/03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: PO Box 57180, Albuquerque, NM 87187

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

11/4/03

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

2. Page 1  
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3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
NE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone

505 476-3488

5. Transporter 1 Company Name

Rhino Environmental Services, Inc.

6. US EPA ID Number

N/A

A. Transporter's Phone

505-397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Rhino Environmental Services, Inc. OCD  
Goo-Yea South  
8 miles south of Hobbs on hwy 18

10. US EPA ID Number

N/A

C. Facility's Phone

505-247-4646

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Hydrocarbon impacted soils

6

BD

120

cy

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

Non Hazardous

N/A

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Juan Garcia

Signature

Juan Garcia

Month Day Year

10 23 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: PO Box 57180, Albuquerque, NM 87187

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Linsay Dyer

Signature

Linsay Dyer

Month Day Year

10 23 03

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

2. Page 1

of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone

505 476-3488

5. Transporter 1 Company Name

Chaparral Services, Inc.

6. US EPA ID Number

N/A

A. Transporter's Phone

505-397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18  
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-394-2511

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Produced H<sub>2</sub>O / Tank Bottoms

1 Tank

130

BBK

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

10 15 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

10 15 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

10 15 03

# Sundance Services, Inc. 112 69923

P. O. Box 1737 ★ Eunice, New Mexico 88231  
(505) 394-2511

LEASE OPERATOR/SHIPPER/COMPANY: *White - Sundance*

LEASE NAME: *White - Sundance*

TRANSPORTER COMPANY: *White - Sundance*

DATE: *10/15/95* VEHICLE NO.: *744*

DRIVER NO.:

CHARGE TO: *White - Sundance*

## TYPE OF MATERIAL

☐ Production Water  
☐ Tank Bottoms  
☐ Other Material:

☐ Drilling Fluids  
☐ Contaminated Soil  
☐ BS&W Content:

☐ Completion Fluids  
☐ C-117 No.:

Description: *white*

VOLUME OF MATERIAL ☐ BBLs *100* : ☐ YARD : ☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.**

DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance    Canary - Sundance Act #1    Pink - Sundance Act #2    Gold - Transporter  
Revised 12/27/95

Superior Printing Service, Inc.

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

2

2. Page 1  
of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone 505 476-3488

5. Transporter 1 Company Name

Chaparral Services, Inc.

6. US EPA ID Number

N/A

A. Transporter's Phone

505-397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18  
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-394-2511

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Produced H<sub>2</sub>O / Tank Bottoms

1 Tank 130 504

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

10/15/03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

10/15/03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

10/15/03

GENERATOR

TRANSPORTER

FACILITY

# Sundance Services, Inc. NO 65314

Box 1737 ★ Eunice, New Mexico 88231  
(505) 394-2511

LEASE OPERATOR/SHIPPER/COMPANY: *Philip Townsend*

LEASE NAME: *Apple Barrel*

TRANSPORTER COMPANY: *Chaparral*

DATE: *11/15/93*

VEHICLE NO.: *74*

DRIVER NO.:

CHARGE TO: *Chaparral*

## TYPE OF MATERIAL

☐ Production Water  
☐ Tank Bottoms  
☐ Other Material:

☐ Drilling Fluids  
☐ Contaminated Soil  
☐ BS&W Content:

☐ Completion Fluids  
☐ C-117 No.:

Description: *Solids*

VOLUME OF MATERIAL ☒ BBLs

*170*

:

☐ YARD

: ☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance  
Revised 1/2/79/95

Canary - Sundance Act #1

Pink - Sundance Act #2

Gold - Transporter

Superior Printing Service, Inc.

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

3

2. Page 1  
of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone

505 476-3488

5. Transporter 1 Company Name

Chaparral Services, Inc.

6. US EPA ID Number

N/A

A. Transporter's Phone

505-397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18  
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-394-2511

11. Waste Shipping Name and Description

12. Containers

No.

Type

13.  
Total  
Quantity

14.  
Unit  
Wt/Vol

a. Produced H<sub>2</sub>O / Tank Bottoms

1

Tank

130

BB

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

10 15 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

10 15 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

10 15 03

GENERATOR

TRANSPORTER

FACILITY



# Sundance Services, Inc. MC 69903

P. O. Box 1737 ★ Eunice, New Mexico 88231  
(505) 394-2511

LEASE OPERATOR/SHIPPER/COMPANY: *King & Son Inc*

LEASE NAME: *Archie Howard*

TRANSPORTER COMPANY: *Chaparral*

DATE: *11/15/03* VEHICLE NO.: *74*

DRIVER NO.:

TIME AM/PM

CHARGE TO: *Chaparral Diamond Beel*

## TYPE OF MATERIAL

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids   | <input type="checkbox"/> Completion Fluids |
| <input type="checkbox"/> Tank Bottoms     | <input type="checkbox"/> Contaminated Soil | <input type="checkbox"/> C-117 No.:        |
| <input type="checkbox"/> Other Material:  | <input type="checkbox"/> BS&W Content:     |  |

Description: *2116*

VOLUME OF MATERIAL ☒ BBLs *130* : ☐ YARD : ☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAFETY CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance  
Revised 12/27/95

Canary - Sundance Act #1

Pink - Sundance Act #2

Gold - Transporter

Superior Printing Services, Inc.

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

4

2. Page 1  
of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone (505) 476-3488

5. Transporter 1 Company Name

Chaparral Services, Inc.

6. US EPA ID Number

N/A

A. Transporter's Phone

505-397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18  
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-394-2511

11. Waste Shipping Name and Description

12. Containers

No.

Type

13.  
Total  
Quantity

14.  
Unit  
Wt/Vol

a. Produced H<sub>2</sub>O / Tank Bottoms

1

Drums

130

BB

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

10 15 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

10 15 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

10 15 03

GENERATOR

TRANSPORTER

FACILITY

# Sundance Services, Inc. NO 69905

P. O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

4

LEASE OPERATOR/SHIPPER/COMPANY: *Pharos Environmental*

LEASE NAME: *Pharos 5000*

TRANSPORTER COMPANY: *Chaparral*

TIME

AM/PM

DATE: *10/15/95*

VEHICLE NO.: *52*

DRIVER NO.:

CHARGE TO: *Diamond Back*

## TYPE OF MATERIAL

- ☐ Production Water  
☐ Tank Bottoms  
☐ Other Material:

- ☐ Drilling Fluids  
☐ Contaminated Soil  
☐ BS&W Content:

- ☐ Completion Fluids  
☐ C-117 No.:

Description: *non flammable water*

VOLUME OF MATERIAL ☐ BBLs. *130* : ☐ YARD : ☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: *[Signature]*

(SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]*

(SIGNATURE)

White - Sundance  
Revised 1/22/95

Canary - Sundance Act #1

Pink - Sundance Act #2

Gold - Transporter

Superior Printing Service, Inc.

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

5

2. Page 1  
of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone (505) 476-3488

5. Transporter 1 Company Name

Chaparral Services, Inc.

6. US EPA ID Number

N/A

A. Transporter's Phone

505-397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18  
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-394-2511

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Produced H<sub>2</sub>O / Tank Bottoms

1

Tank

130

BBL

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

10 15 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

10 15 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

10 15 03

# Sundance Services, Inc. 112 63917

P. O. Box 1737 ★ Eunice, New Mexico 88231  
(505) 394-2511

LEASE OPERATOR/SHIPPER/COMPANY: *Harpur AC*

LEASE NAME: *Area 1A USMC*

TRANSPORTER COMPANY: *Harpur AC*

DATE: *10/15/03* VEHICLE NO.: *52*

DRIVER NO.:

TIME AM/PM

CHARGE TO: *Harpur AC*

## TYPE OF MATERIAL

☐ Production Water  
☐ Tank Bottoms  
☐ Other Material:

☐ Drilling Fluids  
☐ Contaminated Soil  
☐ BS&W Content:

☐ Completion Fluids  
☐ C-117 No.:

Description: *9247-15*

VOLUME OF MATERIAL ☐ BBLS. *150* : ☐ YARD : ☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance  
Revised 12/27/95

Canary - Sundance Act #1

Pink - Sundance Act #2

Gold - Transporter

Superior Printing Service, Inc.

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

6

2. Page 1  
of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone

505 476-3488

5. Transporter 1 Company Name

Chaparral Services, Inc.

6.

US EPA ID Number

N/A

A. Transporter's Phone

505-397-3044

7. Transporter 2 Company Name

8.

US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18  
Lea County

10.

US EPA ID Number

N/A

C. Facility's Phone

505-394-2511

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a.

Reduced H<sub>2</sub>O / Tank Bottoms

1

Tank

130

RAL

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

10 15 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

10 15 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

10 15 03

# Sundance Services, Inc. No. 69926

P. O. Box 1737 ★ Eunice, New Mexico 88231  
(505) 394-2511

LEASE OPERATOR/SHIPPER/COMPANY: Whitcomb

LEASE NAME: 4th 1140 disposal

TRANSPORTER COMPANY: Whitcomb

DATE: 10/15/85 VEHICLE NO.: 52

DRIVER NO.:

TIME

AM/PM

CHARGE TO: Whitcomb

## TYPE OF MATERIAL

- ☐ Production Water  
☐ Tank Bottoms  
☐ Other Material:

- ☐ Drilling Fluids  
☐ Contaminated Soil  
☐ BS&W Content:

- ☐ Completion Fluids  
☐ C-117 No.: \_\_\_\_\_

Description: solids

VOLUME OF MATERIAL ☐ BBLS. 130 : ☐ YARD : ☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

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DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White - Sundance  
Revised 12/27/95

Canary - Sundance Act #1

Pink - Sundance Act #2

Gold - Transporter

Superior Printing Service, Inc.

**NON-HAZARDOUS  
WASTE MANIFEST**

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

2. Page 1  
of 7

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone 505 476-3488

5. Transporter 1 Company Name

Chaparral Services, Inc.

6.

US EPA ID Number

N/A

A. Transporter's Phone

505-397-3044

7. Transporter 2 Company Name

8.

US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18  
Lea County

10.

US EPA ID Number

N/A

C. Facility's Phone

505-394-2511

11. Waste Shipping Name and Description

12. Containers

No.

Type

13.  
Total  
Quantity14.  
Unit  
Wt/Vol

a.

Produced H<sub>2</sub>O / Tank Bottoms

1

Tank

130

BBL

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

10 15 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

10 15 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

10 15 03



# Sundance Services, Inc. M2 69906

P. O. Box 1737 ★ Eunice, New Mexico 88231  
(505) 394-2511

LEASE OPERATOR/SHIPPER/COMPANY: *Harco International*

LEASE NAME: *Harco 5000*

TRANSPORTER COMPANY: *Chaparral*

DATE: *10/15/83* VEHICLE NO.: *7171*

DRIVER NO.:

CHARGE TO: *Harco 5000*

## TYPE OF MATERIAL

☐ Production Water  
☐ Tank Bottoms  
☐ Other Material:

☐ Drilling Fluids  
☐ Contaminated Soil  
☐ BS&W Content:

☐ Completion Fluids  
☐ C-117 No.:

Description: *Non Hazardous*

VOLUME OF MATERIAL ☐ BBLs. *13*

: ☐ YARD : ☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance  
Revised 12/27/93

Canary - Sundance Act #1

Pink - Sundance Act #2

Gold - Transporter

Superior Printing Service, Inc.

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.  
N/A

Manifest Doc. No.  
8

2. Page 1  
of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone 505 476-3488

5. Transporter 1 Company Name  
Chaparral Services, Inc.

6. US EPA ID Number  
N/A

A. Transporter's Phone  
505-397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18  
Lea County

10. US EPA ID Number  
N/A

C. Facility's Phone

505-394-2511

11. Waste Shipping Name and Description

12. Containers  
No. Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Produced H<sub>2</sub>O / Tank Bottoms

1 1 Tank 130 100

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name  
Marty G. H.

Signature

Month Day Year  
11/15/03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name  
SERGIO GARCIA

Signature

Month Day Year  
10/15/03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name  
Kelly Roach

Signature

Month Day Year  
10/15/03

GENERATOR

TRANSPORTER

FACILITY

**P. O. Box 1737 ★ Eunice, New Mexico 88231**  
**(505) 394-2511**

(505) 394-2511

10

1000

AM/PM

✓

**DRIVER NO.:**

10

## [[ Drilling Fluids

## [ ] Completion Fluids

### [ ] Tank Bottoms

**[ ] Contaminated Soil**

**[ ] C-117 No.:**

**[ ] Other Material:**

**[ ] BS&W Content:**

### Descriptions:

1

1

**[ ] YARD**

1111

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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**DRIVER:**

(SIGNATURE)

**FACILITY REPRESENTATIVE:**

**(SIGNATURE)**

White - Sundance  
Revised '12/27/95

Canary - Sundance Acct #1

Pink - Sundance Acct #2

**Gold - Transporter**

**Superior Printing Service, Inc.**

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

9

2. Page 1  
of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone (805) 476-3488

5. Transporter 1 Company Name

Chaparral Services, Inc.

6. US EPA ID Number

N/A

A. Transporter's Phone

505-397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18  
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-394-2511

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Produced H<sub>2</sub>O / Tank Bottoms

1

Tank

130

501

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

Mary H

[Signature]

10/15/03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

SERGIO GARCIA

[Signature]

10/15/03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

Kelly Roach

[Signature]

10/15/03

# Sundance Services, Inc. MC 69927

P. O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

LEASE OPERATOR/SHIPPER/COMPANY: *Shirley Sundance*

LEASE NAME: *Shirley Sundance*

TRANSPORTER COMPANY: *Shirley Sundance*

TIME

AM/PM

DATE: *10/16/92*

VEHICLE NO.: *92*

DRIVER NO.:

CHARGE TO: *Shirley Sundance*

## TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☒ Tank Bottoms

☐ Contaminated Soil

☐ C-117 No.:

☒ Other Material:

☐ BS&W Content:

Description: *Shirley Sundance*

VOLUME OF MATERIAL ☐ BBLs. *120*

:

☐ YARD

:

☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance  
Revised 12/27/95

Canary - Sundance Acct #1

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1  
of

N/A

10

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone ( )  
505 476-3488

5. Transporter 1 Company Name

Chaparral Services, Inc

6. US EPA ID Number

N/A

A. Transporter's Phone

505-397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18

10. US EPA ID Number

N/A

C. Facility's Phone

505-394-2511

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Produced H<sub>2</sub>O / Tank Bottoms

1

Tank

130

BB

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

10 15 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

10 15 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

10 15 03

# Sundance Services, Inc. # 69936

P. O. Box 1737 ★ Eunice, New Mexico 88231  
(505) 394-2511

LEASE OPERATOR/SHIPPER/COMPANY: Richard

LEASE NAME: Apache Division

TRANSPORTER COMPANY: Haystack

DATE: 10/15/95 VEHICLE NO.: 41141

DRIVER NO.:

CHARGE TO: Approved by Don and Barbara

## TYPE OF MATERIAL

☐ Production Water  
☐ Tank Bottoms  
☐ Other Material:

☐ Drilling Fluids  
☐ Contaminated Soil  
☐ BS&W Content:

☐ Completion Fluids  
☐ C-117 No.:

Description: S&W

VOLUME OF MATERIAL ☒ BBLs. 132

: ☐ YARD : ☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance  
Revised 12/27/95

Canary - Sundance Acct #1

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1  
of

N/A

11

1

of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone ( )  
505-476-3488

5. Transporter 1 Company Name

Chaparral Services, Inc.

7. Transporter 2 Company Name

6. US EPA ID Number

N/A

8. US EPA ID Number

10. US EPA ID Number

N/A

A. Transporter's Phone

505-397-3044

B. Transporter's Phone

C. Facility's Phone

505-394-2511

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18

11. Waste Shipping Name and Description

12. Containers  
No. Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Produced H<sub>2</sub>O / Tank Bottoms

1 Tank 130 BBL

b. 35  
10/15/03  
SWH

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

10/15/03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

10/15/03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

line 13: correct quantity

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

10/15/03



# Sundance Services, Inc. NE 69940

P. O. Box 1737 ★ Eunice, New Mexico 88231  
(505) 394-2511

LEASE OPERATOR/SHIPPER/COMPANY: *Phon*

LEASE NAME: *Apex*

TRANSPORTER COMPANY: *Phon*

DATE: *11/1/84* VEHICLE NO.: *4152*

DRIVER NO.:

CHARGE TO: *Drill hole cost*

## TYPE OF MATERIAL

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids   | <input type="checkbox"/> Completion Fluids |
| <input type="checkbox"/> Tank Bottoms     | <input type="checkbox"/> Contaminated Soil | <input type="checkbox"/> C-117 No.:        |
| <input type="checkbox"/> Other Material:  | <input type="checkbox"/> BS&W Content:     |  |

Description: *slit*

*Slit*

VOLUME OF MATERIAL ☐ BBLs. *35* : ☐ YARD : ☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. *N/A*

Manifest Doc. No. *12*

2. Page 1  
of

3. Generator's Name and Mailing Address

505 476-3488

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone ( )

Chaparral Services, Inc.

6. US EPA ID Number *N/A*

A. Transporter's Phone 505-397-3044

5. Transporter 1 Company Name

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18  
Lea County

10. US EPA ID Number *N/A*

C. Facility's Phone 505-394-2511

11. Waste Shipping Name and Description

a. Produced H<sub>2</sub>O / Tank Bottoms

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

*N/A*

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

# Sundance Services, Inc. NY 69339

P. O. Box 1737 ★ Eunice, New Mexico 88231  
(505) 394-2511

*KL*

LEASE OPERATOR/SHIPPER/COMPANY: *Chino*

LEASE NAME: *John Deere*

TRANSPORTER COMPANY: *Chino* TIME AM/PM

DATE: *7/1/82* VEHICLE NO.: *7-9* DRIVER NO.:

CHARGE TO: *Chino* *Demoil Park*

## TYPE OF MATERIAL

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids   | <input type="checkbox"/> Completion Fluids |
| <input type="checkbox"/> Tank Bottoms     | <input type="checkbox"/> Contaminated Soil | <input type="checkbox"/> C-117 No.:        |
| <input type="checkbox"/> Other Material:  | <input type="checkbox"/> BS&W Content:     |  |

Description: *oil*

VOLUME OF MATERIAL ☐ BBLs. *120* : ☐ YARD : ☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: *[Signature]* (SIGNATURE)

FACILITY REPRESENTATIVE: *[Signature]* (SIGNATURE)

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

13

2. Page 1

of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone (505) 476-3488

5. Transporter 1 Company Name  
Chaparral Services, Inc.

6. US EPA ID Number

N/A

A. Transporter's Phone (505) 397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18  
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-394-2511

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Produced H<sub>2</sub>O / Tank Bottoms

1

Tank

130

BB1

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

10 17 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

10 17 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

10 17 03

ORIGINAL - RETURN TO GENERATOR

# Sundance Services, Inc. NO 69973

P. O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

13

LEASE OPERATOR/SHIPPER/COMPANY: *Alma*

LEASE NAME: *Alma*

TRANSPORTER COMPANY: *Chaparral*

DATE: *11/17/03* VEHICLE NO.:

DRIVER NO.:

CHARGE TO: *Donna B. A. Sed*

## TYPE OF MATERIAL

☐ Production Water  
☐ Tank Bottoms  
☐ Other Material:

☐ Drilling Fluids  
☐ Contaminated Soil  
☐ BS&W Content:

☐ Completion Fluids  
☐ C-117 No.:

Description: *Slit*

VOLUME OF MATERIAL ☒ BBLs.

*130*

:

☐ YARD

: ☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance  
Revised 1/22/795

Canary - Sundance Acct #1

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.  
N/A

Manifest Doc. No.  
14

2. Page 1  
of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone (505) 476-3488

5. Transporter 1 Company Name  
Chaparral Services, Inc.

6. US EPA ID Number  
N/A

A. Transporter's Phone  
505-397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18  
Lea County

10. US EPA ID Number  
N/A

C. Facility's Phone

505-394-2511

11. Waste Shipping Name and Description

12. Containers  
No. Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Produced H<sub>2</sub>O / Tank Bottoms

1 130 BBL

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name Signature Month Day Year  
10 17 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Month Day Year  
10 17 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name Signature Month Day Year  
10 17 03

ORIGINAL - RETURN TO GENERATOR

# Sundance Services, Inc. NE 69976

P. O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

LEASE OPERATOR/SHIPPER/COMPANY: King

LEASE NAME: Alto 40 D-50501

TRANSPORTER COMPANY: Chaparral

DATE: 10/10/83

VEHICLE NO.: 290

DRIVER NO.: 4

CHARGE TO: Drill Back

## TYPE OF MATERIAL

- ☐ Production Water  
☐ Tank Bottoms  
☐ Other Material:

- ☐ Drilling Fluids  
☐ Contaminated Soil  
☐ BSAW Content:

- ☐ Completion Fluids  
☐ C-117 No.:

Description: Drill bits

VOLUME OF MATERIAL ☒ BBLs. 130 : ☐ YARD : ☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance  
Revised 12/27/95

Canary - Sundance Act #1

Pink - Sundance Act #2

Gold - Transporter

Superior Printing Service, Inc.

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.  
N/A

Manifest Doc. No.  
15

2. Page 1  
of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone (505) 476-3488

5. Transporter 1 Company Name  
Chaparral Services, Inc.

6. US EPA ID Number  
N/A

A. Transporter's Phone  
505-397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18  
Lea County

10. US EPA ID Number  
N/A

C. Facility's Phone

505-394-2511

11. Waste Shipping Name and Description

12. Containers

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Produced H<sub>2</sub>O / Tank Bottoms

No. 1

Type Tank

40

831

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

Jeff Hannah

Jeff Hannah

10 17 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

Anthony Pender

Anthony Pender

10 17 03

ORIGINAL - RETURN TO GENERATOR



# Sundance Services, Inc. No 69980

P.O. Box 1737 ★ Eunice, New Mexico 88231  
(505) 394-2511

LEASE OPERATOR/SHIPPER/COMPANY: Chaparral

LEASE NAME: Alpha Dec 2005-1

TRANSPORTER COMPANY: Chaparral

DATE: 10-17-03 VEHICLE NO.: 7

CHARGE TO: Donald Boale

TIME

AM/PM

DRIVER NO.:

## TYPE OF MATERIAL

☐ Production Water  
☐ Tank Bottoms  
☐ Other Material:

☐ Drilling Fluids  
☐ Contaminated Soil  
☐ BS&W Content:

☐ Completion Fluids  
☐ C-117 No.:

Description: solids

501804

VOLUME OF MATERIAL ☒ BBLs 410

☐ YARD : ☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: Jeff Houlton

(SIGNATURE)

FACILITY REPRESENTATIVE: Anthony Lane

(SIGNATURE)

White - Sundance  
Revised 12/27/95

Canary - Sundance Acct #1

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. N/A	Manifest Doc. No. 17	2. Page 1 of		
3. Generator's Name and Mailing Address  New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505		Araho Disposal Facility WE/4, SE/4, Sec 1, T17S, R31E Lea County, NM				
4. Generator's Phone (505) 476-3488		5. Transporter 1 Company Name Chaparral Services, Inc.	6. US EPA ID Number N/A	A. Transporter's Phone 505-397-3044		
7. Transporter 2 Company Name		8. US EPA ID Number	B. Transporter's Phone			
9. Designated Facility Name and Site Address Standard Oil Services 2 miles East on Hwy 18 Lea County		10. US EPA ID Number N/A	C. Facility's Phone 505-394-2511			
11. Waste Shipping Name and Description  a. Produced H <sub>2</sub> O / Tank Bottoms  b.  c.  d.			12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
			1	Tank	130	RB/1
D. Additional Descriptions for Materials Listed Above  Non Hazardous			E. Handling Codes for Wastes Listed Above  N/A			
15. Special Handling Instructions and Additional Information  #5 Address: PO Drawer 1769, Eunice, NM 88231						
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Printed/Typed Name			Signature		Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials			Signature		Month Day Year	
Printed/Typed Name			Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials			Signature		Month Day Year	
Printed/Typed Name			Signature		Month Day Year	
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name			Signature		Month Day Year	

**Sundance Services, Inc.****N2****70029**

P. O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

LEASE OPERATOR/SHIPPER/COMPANY:

*Rhino Environmental*

LEASE NAME:

*Arabo SWD*

TRANSPORTER COMPANY:

*Chaparral*

TIME

AM/PM

DATE:

*10/21/03*

VEHICLE NO.:

*# 74*

DRIVER NO.:

CHARGE TO:

*Diamond Back***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☐ Contaminated Soil☐ C-117 No.:☐ Other Material:☐ BS&W Content:

Description:

*solids*VOLUME OF MATERIAL ☐ BBLs.*130*

:

☐ YARD

:

☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

*Kelly Roach*  
(SIGNATURE)White - Sundance  
Revised 12/27/95

Canary - Sundance Acct #1

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.  
N/A

Manifest Doc. No.  
18

2. Page 1  
of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone 505 476-3488

5. Transporter 1 Company Name

6. US EPA ID Number

A. Transporter's Phone

7. Transporter 2 Company Name Chaparral Services, Inc.

8. US EPA ID Number N/A

B. Transporter's Phone 505-397-3044

9. Designated Facility Name and Site Address

10. US EPA ID Number

C. Facility's Phone

Sundance Services  
2 miles East on Hwy 18  
Lea County

N/A

505-394-2511

11. Waste Shipping Name and Description

12. Containers

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Produced H<sub>2</sub>O / Tank Bottoms

1 Tank 130 Bbl

b.

c.

d.

D. Additional Descriptions for Materials Listed Above  
Non Hazardous

E. Handling Codes for Wastes Listed Above  
N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

ORIGINAL - RETURN TO GENERATOR

# Sundance Services, Inc. N<sup>o</sup> 70034

P. O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

18

LEASE OPERATOR/SHIPPER/COMPANY: King Eury

LEASE NAME: Arado 1/15/05

TRANSPORTER COMPANY: CHAPARRAL

TIME

AM/PM

DATE: 10/21/03

VEHICLE NO.: 71

DRIVER NO.:

CHARGE TO: CHAPARRAL Diamond Back SWD

## TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☐ Contaminated Soil

☐ C-117 No.: \_\_\_\_\_

☐ Other Material:

☐ BS&W Content: \_\_\_\_\_

Description: Solids

VOLUME OF MATERIAL ☐ BBLs. 130

☐ YARD \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

*THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: Kevin Garcia

(SIGNATURE)

FACILITY REPRESENTATIVE: Thomas E. Garcia

(SIGNATURE)

White - Sundance  
Revised 12/27/95

Canary - Sundance Acct #1

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. N/A	Manifest Doc. No. 19	2. Page 1 of
3. Generator's Name and Mailing Address  New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505		Araho Disposal Facility WE/4, SE/4, Sec 1, T17S, R31E Lea County, NM		
4. Generator's Phone ( 476-3488 )		505		
5. Transporter 1 Company Name <i>Pete Trucking</i>	6. US EPA ID Number N/A	A. Transporter's Phone 6264		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone 505-397-3044		
9. Designated Facility Name and Site Address  Sundance Services 2 miles East on Hwy 18 Lea County	10. US EPA ID Number  N/A	C. Facility's Phone  505-394-2511		
11. Waste Shipping Name and Description		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
a. <i>TANK BOTTOMS -</i>			<i>110 BBL</i>	
b.				
c.		<i>BULK</i>		
d.		<i>130</i>		
D. Additional Descriptions for Materials Listed Above Non Hazardous		E. Handling Codes for Wastes Listed Above N/A		
15. Special Handling Instructions and Additional Information  #5 Address: PO Drawer 1769, Eunice, NM 88231				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name		Signature		Month Day Year
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name <i>Abraham Navarro</i>		Signature <i>Abraham Navarro</i>		Month Day Year 10/2/03
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space  <i>Line B: corrected quantity</i>				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name <i>Fabian Fabela</i>		Signature <i>Fabian Fabela</i>		Month Day Year 10/21/03

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

# Sundance Services, Inc. № 70036

P. O. Box 1737 ★ Eunice, New Mexico 88231  
(505) 394-2511

LEASE OPERATOR/SHIPPER/COMPANY: Rhino Foundation

LEASE NAME: Arabo SWD

TRANSPORTER COMPANY: Pate

TIME \_\_\_\_\_ AM/PM

DATE: 10/2/93 VEHICLE NO.: 59

DRIVER NO.: \_\_\_\_\_

CHARGE TO: Diamond Back

## TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☐ Contaminated Soil

☐ C-117 No.: \_\_\_\_\_

☐ Other Material:

☐ BS&W Content: \_\_\_\_\_

Description: Slicks

VOLUME OF MATERIAL ☒ BBLS. 170 : ☐ YARD : ☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

*THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White - Sundance  
Revised 12/27/95

Canary - Sundance Acct #1

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.  
N/A

Manifest Doc. No.  
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2. Page 1  
of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone ( 505 476-3488

5. Transporter 1 Company Name

Chaparral Services, Inc.

6. US EPA ID Number

N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18  
Lea County

10. US EPA ID Number

N/A

11. Waste Shipping Name and Description

a. Produced H<sub>2</sub>O in Tank bottom

12. Containers  
No. Type

1 Tank

13. Total  
Quantity

180

14. Unit  
Wt/Vol

lbs

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

Sundance Serv.  
Kelly Roach

Kelly Roach

10/21/03

ORIGINAL - RETURN TO GENERATOR

12-BAS-05 Rev. 2/98



**Sundance Services, Inc.****№ 70037**

P. O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

20

LEASE OPERATOR/SHIPPER/COMPANY:

*Phino Environmental*

LEASE NAME:

*Alahe SWB*

TRANSPORTER COMPANY:

*Chaparral*

TIME

AM/PM

DATE:

*12/21/03*

VEHICLE NO.:

*211*

DRIVER NO.:

CHARGE TO:

*Diamond Back***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☒ Tank Bottoms☐ Contaminated Soil☐ C-117 No.:☐ Other Material:☐ BS&W Content:

Description:

*solids*VOLUME OF MATERIAL ☐ BBLs*130*☐ YARD

:

☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

*THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance  
Revised 12/27/95

Canary - Sundance Acct #1

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

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of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone ( )  
505 476-3488

5. Transporter 1 Company Name

~~Choparral Services, Inc.~~ M+S

6. US EPA ID Number

N/A

A. Transporter's Phone

505-397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18  
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-394-2511

11. Waste Shipping Name and Description

a. Produced H<sub>2</sub>O / Bottom Tank.

12. Containers  
No. Type

1 Tank

13. Total  
Quantity

130

14. Unit  
Wt/Vol

RBC

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials.

Printed/Typed Name

Jeff Hana

Signature

Jeff Hana

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Kelly Roach

Signature

Kelly Roach

Month Day Year

11/02/03

ORIGINAL - RETURN TO GENERATOR

**Sundance Services, Inc.****№ 70040**

P. O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

LEASE OPERATOR/SHIPPER/COMPANY:

*Rhino Environmental*

LEASE NAME:

*Araho SWD*

TRANSPORTER COMPANY:

*M+S (Chaparral)*

TIME

AM/PM

DATE: *10/21/03*

VEHICLE NO.:

*# 7*

DRIVER NO.:

CHARGE TO:

*Diamond Beach***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☒ Tank Bottoms☐ Contaminated Soil☐ C-117 No.:☐ Other Material:☐ BS&W Content:

Description:

*solids**Telout*VOLUME OF MATERIAL ☐ BBLs.*130*☐ YARD

:

☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

*THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER:

(SIGNATURE)

*Jeff H. H. H.*

FACILITY REPRESENTATIVE:

(SIGNATURE)

*Kelly Roach*White - Sundance  
Revised 12/27/95

Canary - Sundance Acct #1

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.  
N/A

Manifest Doc. No.  
22

2. Page 1  
of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone (505) 476-3488

5. Transporter 1 Company Name

~~Chaparral Services, Inc.~~ M+S

6. US EPA ID Number

N/A

A. Transporter's Phone

505-397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18  
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-394-2511

11. Waste Shipping Name and Description

12. Containers  
No. Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Produced H<sub>2</sub>O / Tank Bottoms

1

Tank

130

881

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

11 01 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

10 16 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

11 01 03

ORIGINAL - RETURN TO GENERATOR

**Sundance Services, Inc.****NO 69957**P. O. Box 1737 ★ Eunice, New Mexico 88231  
(505) 394-2511**22 40684****LEASE OPERATOR/SHIPPER/COMPANY:** *Rhino***LEASE NAME:** *Acabo disposal***TRANSPORTER COMPANY:** *AMS***TIME****AM/PM****DATE:** *12/16/03***VEHICLE NO.:** *# 1***DRIVER NO.:****CHARGE TO:** *Dimondback***TYPE OF MATERIAL**☐ **Production Water**☐ **Drilling Fluids**☐ **Completion Fluids**☐ **Tank Bottoms**☐ **Contaminated Soil**☐ **C-117 No.:** \_\_\_\_\_☐ **Other Material:**☐ **BS&W Content:** \_\_\_\_\_**Description:** *NON/HAZ WASTE***VOLUME OF MATERIAL** ☒ **BBLs.** *150*☐ **YARD**

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

*THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

**DRIVER:** *Jeff Hummel*

(SIGNATURE)

**FACILITY REPRESENTATIVE:** *JHR*

(SIGNATURE)

White - Sundance  
Revised 12/27/95

Canary - Sundance Acct #1

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

23

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of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone ( )

505-476-3488

5. Transporter 1 Company Name

Chaparral Services, Inc.

6. US EPA ID Number

N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18  
Lea County

10. US EPA ID Number

N/A

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a.

Produced H<sub>2</sub>O / Tank Bottoms

1

Tank

130

RB/

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

11 01 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

11 01 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

11 01 03

ORIGINAL - RETURN TO GENERATOR

# Sundance Services, Inc. N2 69971

P. O. Box 1737 ★ Eunice, New Mexico 88231  
(505) 394-2511

23

LEASE OPERATOR/SHIPPER/COMPANY:

Rhino Environmental

LEASE NAME:

Altao SWD

TRANSPORTER COMPANY:

MIS

(Chaparral)

TIME

AM/PM

DATE:

6/1/76

VEHICLE NO.:

# 7

DRIVER NO.:

CHARGE TO:

Diamond Back SWD

## TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☒ Tank Bottoms

☐ Contaminated Soil

☐ C-117 No.:

☐ Other Material:

☐ BS&W Content:

Description:

Solids

VOLUME OF MATERIAL ☐ BBLs.

130

:

☐ YARD

:

☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER:

Jeff Haynes

(SIGNATURE)

FACILITY REPRESENTATIVE:

Betty Roach

(SIGNATURE)

White - Sundance  
Revised 12/27/95

Canary - Sundance Acct #1

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.  
N/A

Manifest Doc. No.  
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of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone  
505 476-3488

5. Transporter 1 Company Name  
Chaparral Services, Inc.

6. US EPA ID Number  
N/A

A. Transporter's Phone  
505-397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address  
Sundance Services  
2 miles East on Hwy 18  
Lea County

10. US EPA ID Number  
N/A

C. Facility's Phone  
505-394-2511

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Tank Bottoms / Produced H<sub>2</sub>O

1 Tank 130 BB

b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above  
Non Hazardous

E. Handling Codes for Wastes Listed Above  
N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

10/16/03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

10/16/03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

11/06/03

ORIGINAL - RETURN TO GENERATOR



# Sundance Services, Inc.

N2

69952

P. O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

LEASE OPERATOR/SHIPPER/COMPANY:

Rhino Environmental

LEASE NAME:

Araho SWD

TRANSPORTER COMPANY:

Chaparral

TIME

AM/PM

DATE:

10/16/03

VEHICLE NO.:

# 71

DRIVER NO.:

CHARGE TO:

Diamond Back SWD

## TYPE OF MATERIAL

☐ Production Water☐ Drilling Fluids☐ Completion Fluids☒ Tank Bottoms☐ Contaminated Soil☐ C-117 No.:☐ Other Material:☐ BS&W Content:

Description:

solids

VOLUME OF MATERIAL ☐ BBLs.

130

:

☐ YARD

:

☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance  
Revised 12/27/95

Canary - Sundance Acct #1

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1  
of

25

3. Generator's Name and Mailing Address

N/A

4. Generator's Phone ( )

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

5. Transporter 1 Company Name

505-476-3488

US EPA ID Number

A. Transporter's Phone

505-397-3044

7. Transporter 2 Company Name

Chaparral Services, Inc.

8. US EPA ID Number

N/A

B. Transporter's Phone

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18  
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-394-2511

11. Waste Shipping Name and Description

12. Containers

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Produced H<sub>2</sub>O / Tank Bottoms

1

Tank

130

BB

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

Non Hazardous

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

10/16/03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

10/16/03

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

10/16/03

ORIGINAL - RETURN TO GENERATOR

# Sundance Services, Inc.

Nº 69966

P. O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

25

LEASE OPERATOR/SHIPPER/COMPANY: Phind

LEASE NAME: Archo Disposal

TRANSPORTER COMPANY: Thompson

TIME

AM/PM

DATE: 10/16/03 VEHICLE NO.: 111

DRIVER NO.:

CHARGE TO: Drill Bit

## TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Completion Fluids

☐ Tank Bottoms

☐ Contaminated Soil

☐ C-117 No.: \_\_\_\_\_

☐ Other Material:

☐ BS&W Content: \_\_\_\_\_

Description: solids

VOLUME OF MATERIAL ☒ BBLs. 130

☐ YARD

☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

*THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: [Signature]

(SIGNATURE)

FACILITY REPRESENTATIVE: [Signature]

(SIGNATURE)

White - Sundance  
Revised 12/27/95

Canary - Sundance Acct #1

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.  N/A	Manifest Doc. No. <b>26</b>	2. Page 1 of	
3. Generator's Name and Mailing Address  N/A					
4. Generator's Phone ( )  505-475-3488		New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505		Araho Disposal Facility WE/4, SE/4, Sec 1, T17S, R31E Lea County, NM	
5. Transporter 1 Company Name  Chaparral Services, Inc.		6. US EPA ID Number  N/A	A. Transporter's Phone  505-397-3044		
7. Transporter 2 Company Name  Sundance Services		8. US EPA ID Number  N/A	B. Transporter's Phone  505-394-2511		
9. Designated Facility Name and Site Address  2 miles East on Hwy 18 Lea County		10. US EPA ID Number  N/A	C. Facility's Phone  505-394-2511		
11. Waste Shipping Name and Description  a. Produced H <sub>2</sub> O / Tank Bottoms  b.  c.  d.			12. Containers No.	Type	13. Total Quantity
			1	Tank	130
D. Additional Descriptions for Materials Listed Above  Non Hazardous			E. Handling Codes for Wastes Listed Above  N/A		
15. Special Handling Instructions and Additional Information  #5 Address: PO Drawer 1769, Eunice, NM 88231					
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Printed/Typed Name <i>[Signature]</i>		Signature <i>[Signature]</i>		Month Day Year 11 01 03	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name <i>[Signature]</i>		Signature <i>[Signature]</i>	
				Month Day Year 10 16 03	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature	
				Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name <i>[Signature]</i>		Signature <i>[Signature]</i>		Month Day Year 10 16 03	

ORIGINAL - RETURN TO GENERATOR

**Sundance Services, Inc.****№****69961**

P. O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

24

**LEASE OPERATOR/SHIPPER/COMPANY:**

Ph/00

**LEASE NAME:**

Arado Disposal

**TRANSPORTER COMPANY:**

Chaparral

**TIME****AM/PM****DATE:**

10/16/03

**VEHICLE NO.:**

#174

**DRIVER NO.:****CHARGE TO:**

Dinner Back

**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☐ Contaminated Soil☐ C-117 No.:☐ Other Material:☐ BS&W Content:**Description:**

solids

**VOLUME OF MATERIAL** ☒ **BBLs.**

130

☐ **YARD**

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

*THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

**DRIVER:**

(SIGNATURE)

**FACILITY REPRESENTATIVE:**

(SIGNATURE)

White - Sundance  
Revised 12/27/95

Canary - Sundance Acct #1

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

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2. Page 1  
of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

4. Generator's Phone (505) 476-3488

5. Transporter 1 Company Name

Chaparral Services, Inc.

6. US EPA ID Number

N/A

A. Transporter's Phone

505-397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18  
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-394-2511

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Tank Bottoms

1 Tank 130 Bbl

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

Kelly Roach

Kelly Roach

10/01/03

ORIGINAL - RETURN TO GENERATOR

**Sundance Services, Inc.****N2 70043**

P. O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY:

TIME

AM/PM

DATE:

VEHICLE NO.:

DRIVER NO.:

CHARGE TO:

**TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☐ Contaminated Soil☐ C-117 No.:☐ Other Material:☐ BS&W Content:

Description:

VOLUME OF MATERIAL ☐ BBLs.

130

:

☐ YARD

:

☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance  
Revised 12/27/95

Canary - Sundance Acct #1

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

28

2. Page 1  
of

3. Generator's Name and Mailing Address

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

4. Generator's Phone  
505 476-3488

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

5. Transporter 1 Company Name

Chaparral Services, Inc

6. US EPA ID Number

N/A

A. Transporter's Phone

505-397-3044

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Sundance Services  
2 miles East on Hwy 18  
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-394-2511

11. Waste Shipping Name and Description

a. Produced H<sub>2</sub>O / Tank bottoms

12. Containers  
No. Type

1 TANK  
B

13. Total  
Quantity

110

14. Unit  
Wt/Vol

BBL

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Abraham Navarrette

Signature

Abraham Navarrette

Month Day Year

10/1/03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Kelly Roach

Signature

Kelly Roach

Month Day Year

11/01/03

ORIGINAL - RETURN TO GENERATOR



**Sundance Services, Inc.****N2 70045**

P. O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

28

**LEASE OPERATOR/SHIPPER/COMPANY:***Phino Environmental***LEASE NAME:***Alamo SWD***TRANSPORTER COMPANY:***Pate***TIME****AM/PM****DATE:***10/21/03***VEHICLE NO.:***A 59***DRIVER NO.:****CHARGE TO:***Diamond Back***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☒ Tank Bottoms☐ Contaminated Soil☐ C-117 No.: \_\_\_\_\_☐ Other Material:☐ BS&W Content: \_\_\_\_\_**Description:***solid**Tubout***VOLUME OF MATERIAL** ☐ BBLs*110*☐ YARD☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

*THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

**DRIVER:**

(SIGNATURE)

**FACILITY REPRESENTATIVE:**

(SIGNATURE)

White - Sundance  
Revised 12/27/95

Canary - Sundance Acct #1

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

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of

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3. Generator's Name and Mailing Address

N/A

4. Generator's Phone ( )

New Mexico Oil Conservation Division  
1220 South St. Francis Drive

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E

5. Transporter 1 Company Name

Santa Fe, New Mexico 87695

A. Transporter's Phone

Lea County, NM

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

505-397-3044

9. Designated Facility Name and Site Address

10. US EPA ID Number

C. Facility's Phone

Sundance Services  
2 miles East on Hwy 18

N/A

505-394-2511

11. Waste Shipping Name and Description

12. Containers  
No. Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Hydrocarbon impacted Soil

1

55 Gallon Drum

130

88 L

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

Non Hazardous

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

ORIGINAL - RETURN TO GENERATOR

**Sundance Services, Inc.****N2****70051**

P. O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

LEASE OPERATOR/SHIPPER/COMPANY: *Khina*LEASE NAME: *Arche Disposal*TRANSPORTER COMPANY: *Chaparral*

TIME

AM/PM

DATE: *10/21/03*VEHICLE NO.: *#741*

DRIVER NO.:

CHARGE TO: *Disposal Back***TYPE OF MATERIAL**☐ Production Water☐ Drilling Fluids☐ Completion Fluids☐ Tank Bottoms☐ Contaminated Soil☐ C-117 No.: \_\_\_\_\_☐ Other Material:☐ BS&W Content: \_\_\_\_\_Description: *Solids*VOLUME OF MATERIAL *1* BBLS. *130* :

[ ] YARD \_\_\_\_\_ :

[ ] \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

*THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White - Sundance  
Revised 12/27/95

Canary - Sundance Acct #1

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

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3. Generator's Name and Mailing Address

N/A

4. Generator's Phone ( )

New Mexico Oil Conservation Division  
1220 South St. Francis Drive

Araho Disposal Facility  
WE/4, SE/4, Sec 1, T17S, R31E  
Lea County, NM

5. Transporter 1 Company Name

505-476-3488

Santa Fe, New Mexico 87505

A. Transporter's Phone

7. Transporter 2 Company Name

Chaparral Services, Inc.

8.

US EPA ID Number

N/A

B. Transporter's Phone

505-397-3044

9. Designated Facility Name and Site Address

10.

US EPA ID Number

C. Facility's Phone

Sundance Services

2 miles East on Hwy 18  
Lea County

N/A

505-394-2511

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a.

Produced H<sub>2</sub>O / Tank Bottoms

1

Tank

130

BBL

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

Non Hazardous

N/A

15. Special Handling Instructions and Additional Information

#5 Address: PO Drawer 1769, Eunice, NM 88231

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

10 16 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

10 16 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

10 16 03

ORIGINAL - RETURN TO GENERATOR

# Sundance Services, Inc.

**№ 69949**

P. O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

30

LEASE OPERATOR/SHIPPER/COMPANY:

*Khmo Exeriments*

LEASE NAME:

*Alraho SWD*

TRANSPORTER COMPANY:

*Chaparral*

TIME

AM/PM

DATE: *10/16/03*

VEHICLE NO.:

*#74*

DRIVER NO.:

CHARGE TO:

*Diamond Back SWD*

## TYPE OF MATERIAL

☐ Production Water☐ Drilling Fluids☐ Completion Fluids☒ Tank Bottoms☐ Contaminated Soil☐ C-117 No.:☐ Other Material:☐ BS&W Content:

Description:

*solids*VOLUME OF MATERIAL ☐ BBLs.*130*

:

☐ YARD

:

☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

*THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance  
Revised 12/27/95

Canary - Sundance Acct #1

Pink - Sundance Acct #2

Gold - Transporter

Superior Printing Service, Inc.



Safety &amp; Environmental Solutions, Inc.

P. O. Box 1613

Hobbs, New Mexico 88241

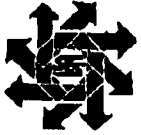
**Invoice**

DATE	INVOICE #
10/8/2003	6386

**BILL TO**

Intera  
 Joe Tracey  
 One Park Square  
 6501 Americas Parkway NE, Ste. 820  
 Albuquerque, NM 87110

PROJECT		P.O. NO.	TERMS
INT03001 Norm Survey			Net 30
QUANTITY	DESCRIPTION	RATE	AMOUNT
1	Radiation Safety Officer	75.00	75.00T
1	NORM Meter	50.00	50.00T
24	Mileage	0.60	14.40T
	Subtotal		139.40
	Hobbs Gross Receipts Tax	6.125%	8.54
Project # <u>7197</u>			
Mgr. approval: <u>NMCO - NRA-01-02</u>			
<b>Total</b>			<b>\$147.94</b>



**Safety & Environmental Solutions, Inc.**

**P. O. Box 1613**

Hobbs, New Mexico 88241

# Invoice

DATE	INVOICE #
10/22/2003	6389

**BILL TO**

## Intern

**Joc Tracey**

**One Park Square**

6501 Americas Parkway NE, Ste. 820

Albuquerque, NM 87110

PROJECT		P.O. NO.	TERMS
INT03001 Norm Survey			Net 30
QUANTITY	DESCRIPTION	RATE	AMOUNT
2	Radiation Safety Officer	75.00	150.00T
1	Survey Meter	50.00	50.00T
48	Mileage	0.60	28.80T
	Subtotal		228.80
	Hobbs Gross Receipts Tax	6.125%	14.01
		<p>SR 7,14 May</p> <p>NMO - ARA - 01-02</p>	
		<b>Total</b>	<b>\$242.81</b>



One Park Square  
6501 Americas Parkway NE  
Suite 820  
Albuquerque, New Mexico 87110  
Tel: 505 246 1600  
Fax: 505 246 2600

# Fax

To: *MARTYNE KESSING*

From: *JOE TRACY*

Company:

Fax: *(505) 467-3462*

Pages: *3*

Phone:

Date:

Re:

CC:

\*Includes cover sheet

Comments:

*MARTYNE,*

*ATTACHED ARE XEROX SURVEYOR INVOICES. TOTAL*

*w/o TAX = \$390.75. PLEASE CALL ME WITH*

*QUESTIONS. THANKS!*

*[Signature]*



STATE OF NEW MEXICO  
PURCHASE DOCUMENT



AGENCY CODE 521	DOCUMENT NUMBER 04-199-000382
DATE 10/30/03	BUDGET FY 04

VENDOR CODE 0000005086
VENDOR NAME AND ORDER ADDRESS INTERA INCORPORATED 9111 A RESEARCH BLVD AUSTIN, TX 78758

DO NOT STAPLE BAR CODES

S H I P T O	OIL CONSERVATION DIVISION 1220 SO. ST. FRANCIS DRIVE SANTA FE, NM 87505
B I L L T O	OIL CONSERVATION DIVISION 1220 SO. ST. FRANCIS DRIVE SANTA FE, NM 87505
AGENCY CONTACT SALLY MARTINEZ	PHONE NUMBER

LN	FUND	AGCY	ORG/PRG	APPR UNIT	DIVISION	OBJECT	AMOUNT
01	199	521	P586	300	0700	3532	121280.49
Maximum of six accounting lines per purchase document							121,280.49
TOTAL							121,280.49

FOR AGENCY USE:

LN	FUND	AGCY	ORG/PRG	APPR UNIT	DIVISION	OBJECT	AMOUNT
1	199	521	0750	301	0700	3532	121280.49
TOTAL							121,280.49

PURCHASE REQUISITION  
(BIDS MUST BE REQUESTED FOR ITEMS OVER \$1,500.00)

☐

BUYER:

RECOMMENDED SOURCE & SPECIAL REMARKS:

☐ ESTABLISH ☐ RENEWAL NO.:

CONTRACT, PRICE AGREEMENT, PURCHASE ORDER  
OTHER THAN PROFESSIONAL SERVICE CONTRACTS:  
(APPROVED VENDORS MUST BE USED FOR ITEMS UNDER CONTRACT)

☒

C/P# 308050918056 EXPIRES: 110703

DIRECT PURCHASE ORDER  
(ONLY VALID FOR PURCHASES \$1,500.00 AND UNDER)

☐

EXEMPT FROM THE NM PROCUREMENT CODE  
PURSUANT TO SECTION

☐

EXCLUDED FROM PROCUREMENT THROUGH STATE PURCHASING  
PURSUANT TO SECTION

☐

FOR ENCUMBERING PURPOSES ONLY  
REASON:

☐

AGENCY APPROVAL - I certify that the proposed purchase represented by this document is authorized by and is made in accordance with all State (and if applicable Federal) legislation, rules and regulations. I further certify that adequate unencumbered cash and budget expenditure authority exists for this proposed purchase and all other outstanding purchase commitments and accounts payable.	AGENCY AUTHORIZED SIGNATURE:	DATE:
APPROVAL 1	DATE	APPROVAL 2
APPROVAL 2	DATE	

AGENCY CODE 521	DOCUMENT NUMBER 04-199-000382
DATE 10/30/03	BUDGET FY 04

STATE OF NEW MEXICO  
PURCHASE DOCUMENT  
CONTINUATION SHEET

TERMS	
DELIVERY DATE 10/30/03	FOB D
BUDGET VERIFIED BY:	

AGENCY NAME ENERGY, MINERALS & NAT RES

COMM LN	QUANTITY	UNIT	COMMODITY CODE	ACCT LN	ARTICLE AND DESCRIPTION	UNIT COST	TOTAL COST
1	1.0000	EACH	CCCC		PHASE I SURFACE INVESTIGATION AND CLEANUP AT ARAHO, INC.	121280.4900	121280.49
TOTAL							121,280.49

State of New Mexico  
Oil Conservation Division  
Phase I Investigation and Remediation  
Araho, Inc.  
Former Injection Well Disposal Facility,  
Lea County, New Mexico  
Costs to Oct. 30, 2003 and Report Budget

Task 1. Project Coordination and Fieldwork Preparation						
Professional Services	Contract Line	Item	Rate	Unit	# of Units	Total
Principal		0001	100.00	hour	3	\$ 300.00
Project Scientist/Engineer/Manager		0003	67.00	hour	4	\$ 268.00
Project Scientist/Engineer/Manager (INTERA J. Tracy)		0003	67.00	hour	38	\$ 2,546.00
Staff Scientist/Engineer		0004	52.00	hour	4	\$ 208.00
Field Technician II		0005	50.00	hour	8	\$ 400.00
Subtotal Professional Labor						\$ 3,722.00
SUBTOTAL TASK 1:						\$ 3,722.00
NMGR Tax 5.8125%						\$ 216.34
GRAND TOTAL TASK 1:						\$ 3,938.34
Task 2. Map Buried Utilities (I-Call) and Perform Naturally Occurring Radioactive Materials (NORM) Survey						
Professional Services	Contract Line	Item	Rate	Unit	# of Units	Total
Staff Scientist/Engineer		0004	52.00	hour	2	\$ 104.00
Field Technician II - Mobilization		0005	50.00	hour	16	\$ 800.00
Field Technician II		0005	50.00	hour	8	\$ 400.00
Draftsperson II (Utility Mapping)		0007	50.00	hour	0	\$ -
Subtotal Professional Labor						\$ 1,304.00
Expenses	Contract Line	Item	Rate	Unit	# of Units	Total
NORM Survey		"At Cost"	1,300.00	each	1	\$ 1,300.00
Subtotal Expenses						\$ 1,300.00
SUBTOTAL TASK 2:						\$ 2,604.00
NMGR Tax 5.8125%						\$ 151.36
GRAND TOTAL TASK 2:						\$ 2,755.36
Task 3. Field Investigation: Tank Removal/Cleaning/Disposal and Piping Removal/Disposal and Sampling/Trenching						
Professional Services	Contract Line	Item	Rate	Unit	# of Units	Total
Project Scientist/Engineer/Manager		0003	67.00	hour	8	\$ 536.00
Staff Scientist/Engineer		0004	52.00	hour	11	\$ 572.00
Field Technician II - Fieldwork		0005	50.00	hour	90	\$ 4,500.00
Field Technician II - Fieldwork (INTERA K. Clark)		0005	50.00	hour	13.5	\$ 675.00
Field Technician II - Foreman		0005	50.00	hour	70	\$ 3,500.00
Field Technician I - Equipment Operator Trackhoe		0006	35.00	hour	60	\$ 2,100.00
Field Technician I - Equipment Operator Trackhoe		0006	35.00	hour	10	\$ 350.00
Field Technician I - Equipment Operator Backhoe		0006	25.00	hour	70	\$ 1,750.00
Field Technician I - Laborer		0006	20.00	hour	120	\$ 2,400.00
Field Technician I - Laborer (Sub. Rhino)		0006	20.00	hour	112	\$ 2,240.00
Hourly Secretary		0010	30.00	hour	0	\$ -
Subtotal Professional Labor						\$ 18,623.00
Expenses	Contract Line	Item	Rate	Unit	# of Units	Total
Mobilization of Equipment		0047	1.75	mile	629	\$ 1,100.75
Disposal of Contaminated Fluids (Product)		0044	10.80	barrel	2,600	\$ 28,080.00
Disposal of Contaminated Fluids (Cleaning Water)		0044	10.80	barrel	965	\$ 10,422.00
Vacuum/Jet Truck		"At Cost"	750.00	day	10	\$ 7,500.00
Vacuum/Jet Truck		"At Cost"	750.00	day	7.25	\$ 5,437.50
Hot Oil Truck		"At Cost"	925.00	day	3.65	\$ 3,376.25
Trackhoe Heavy Duty		0030	646.00	day	6	\$ 3,876.00
Trackhoe Heavy Duty		0030	646.00	day	1	\$ 646.00
Transportation and Disposal of Materials (Scrap Metals, Piping, Tanks) below NORM allowable limits		"At Cost"	195.00	load	6	\$ 1,170.00
Transportation and Disposal of Materials (Scrap Metals, Piping, Tanks) below NORM allowable limits		"At Cost"	195.00	load	1	\$ 195.00
Disposal of Miscellaneous Trash		"At Cost"	40.00	ton	12	\$ 480.00
Disposal of Miscellaneous Trash		"At Cost"	40.00	ton	3	\$ 120.00
Backhoe Medium Duty		0026	157.00	day	6	\$ 942.00
Backhoe Medium Duty		0026	157.00	day	2.3	\$ 361.10
Delivery of Two 20 Yard Roll-Off Containers		"At Cost"	300.00	each	2	\$ 600.00
Clean Sand		"At Cost"	4.00	yard	200	\$ 800.00
Land-Farm of Solid Waste at Rhino's OCD Permitted Facility		0045	31.15	yard	443	\$ 13,799.45
Fresh Water Transport and Use		"At Cost"	1,490.25	project	1	\$ 1,490.25
Combustible Gas Indicator (CGI) with O2, H2S, CO2		0012	50.00	day	6	\$ 300.00
Fresh Air/Safety Trailer/Personal Air Samplers		"At Cost"	300.00	day	5	\$ 1,500.00
Hand-Held GPS Unit		"At Cost"	5.00	day	6	\$ 30.00
Photoscintization Detector (PID)		0021	10.00	day	6	\$ 60.00
Mileage		0042	0.25	mile	800	\$ 200.00
Per Diem		0043	65.00	day	6	\$ 390.00
Per Diem		0043	65.00	day	1	\$ 65.00
Subtotal Expenses						\$ 82,941.30
SUBTOTAL TASK 3:						\$ 101,564.30
NMGR Tax 5.8125%						\$ 5,903.42
GRAND TOTAL TASK 3:						\$ 107,467.72
Task 4. Preparation of an Final Report						
Professional Services	Contract Line	Item	Rate	Unit	# of Units	Total
Principal		0001	100.00	hour	8	\$ 800.00
Project Scientist/Engineer/Manager		0003	67.00	hour	24	\$ 1,608.00
Staff Scientist/Engineer		0004	52.00	hour	40	\$ 2,080.00
Field Technician II		0005	50.00	hour	24	\$ 1,200.00
Draftsperson II (Figures, Cross Sections)		0007	50.00	hour	16	\$ 800.00
Administrator (Technical Editor)		0009	40.00	hour	6	\$ 240.00
Subtotal Professional Labor						\$ 6,728.00
SUBTOTAL TASK 4:						\$ 6,728.00
NMGR Tax 5.8125%						\$ 393.87
GRAND TOTAL TASK 4:						\$ 7,121.87
PROJECT GRAND TOTAL:					\$	121,280.49

Notes:  
NMGR = New Mexico Gross Receipts Tax

Authorized Amount	\$	101,446.68
Total Costs plus Report Budget	\$	121,280.49
<b>Change Order Amount</b>	<b>\$</b>	<b>(19,833.81)</b>

STATE OF NEW MEXICO  
PURCHASE DOCUMENT

AGENCY CODE	521	DOCUMENT NUMBER	04-199-000308
DATE	09/17/03	BUDGET FY	04

VENDOR CODE	0000005086
VENDOR NAME AND ORDER ADDRESS	
INTERA INCORPORATED	
9111 A RESEARCH BLVD	
AUSTIN, TX 78758	

DO NOT STAPLE BAR CODES

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OIL CONSERVATION DIVISION  
1220 SO. ST. FRANCIS DRIVE  
SANTA FE, NM 87505

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OIL CONSERVATION DIVISION  
1220 SO. ST. FRANCES DRIVE  
SANTA FE, NM 87505

AGENCY CONTACT  
SALLY MARTINEZ

PHONE NUMBER

LN	FUND	AGCY	ORG/PRG	APPR UNIT	DIVISION	OBJECT	AMOUNT
01	199	521	P586	300	0700	3532	44350.00
DFA APPROVED							
Maximum of six accounting lines per purchase document							TOTAL
							44,350.00

FOR AGENCY USE:

LN	FUND	AGCY	ORG/PRG	APPR UNIT	DIVISION	OBJECT	AMOUNT
1	199	521	0750	301	0700	3532	44350.00
TOTAL							44,350.00

BUYER:

PURCHASE REQUISITION

(BIDS MUST BE REQUESTED FOR ITEMS OVER \$1,500.00)

RECOMMENDED SOURCE & SPECIAL REMARKS:

☐ ESTABLISH ☐ RENEWAL NO.:

CONTRACT, PRICE AGREEMENT, PURCHASE ORDER  
OTHER THAN PROFESSIONAL SERVICE CONTRACTS:

(APPROVED VENDORS MUST BE USED FOR ITEMS UNDER CONTRACT)

CPA/PO# 308050918056 EXPIRES: 100703

DIRECT PURCHASE ORDER

(ONLY VALID FOR PURCHASES \$1,500.00 AND UNDER)

EXEMPT FROM THE NM PROCUREMENT CODE

PURSUANT TO SECTION

NMISA, 1978

EXCLUDED FROM PROCUREMENT THROUGH STATE PURCHASING

PURSUANT TO SECTION

NMISA, 1978

FOR ENCUMBERING PURPOSES ONLY

REASON:

AGENCY APPROVAL - I certify that the proposed purchase represented by this document is authorized by and is made in accordance with all State (and if applicable Federal) legislation, rules and regulations. I further certify that adequate unencumbered cash and budget expenditure authority exists for this proposed purchase and all other outstanding purchase commitments and accounts payable.

AGENCY AUTHORIZED SIGNATURE:

DATE:

AGENCY CODE 521	DOCUMENT NUMBER 04-199-000308
DATE 09/17/03	BUDGET FY 04

STATE OF NEW MEXICO  
PURCHASE DOCUMENT  
CONTINUATION SHEET

TERMS	
DELIVERY DATE 09/17/03	FOB D
BUDGET VERIFIED BY:	

AGENCY NAME  
ENERGY, MINERALS & NAT RES

COMM LN	QUANTITY	UNIT	COMMODITY CODE	ACCT LN	ARTICLE AND DESCRIPTION	UNIT COST	TOTAL COST
1	1.0000	EACH	CCCC		PHASE I SURFACE INVESTIGATION AND CLEANUP AT ARAHO, INC.	44350.0000	44350.00
TOTAL							44,350.00

STATE OF NEW MEXICO  
PURCHASE DOCUMENT

AGENCY CODE 521	DOCUMENT NUMBER 03-199-000799
DATE 05/16/03	BUDGET FY 03

VENDOR CODE 0000005086
VENDOR NAME AND ORDER ADDRESS INTERA INCORPORATED 9111 A RESEARCH BLVD AUSTIN, TX 78758

DO NOT STAPLE BAR CODES

S H I P T O	OIL CONSERVATION DIVISION 1220 SO. ST. FRANCIS DRIVE SANTA FE, NM 87505
B I L T O	OIL CONSERVATION DIVISION 1220 SO. ST. FRANCIS DRIVE SANTA FE, NM 87505
AGENCY CONTACT SALLY MARTINEZ	PHONE NUMBER

LN	FUND	AGCY	ORG/PRG	APPR UNIT	DIVISION	OBJECT	AMOUNT
01	199	521	P586	300	0700	3532	57100.00
DFA APPROVED							
Maximum of six accounting lines per purchase document							TOTAL
							57,100.00

FOR AGENCY USE:							
LN	FUND	AGCY	ORG/PRG	APPR UNIT	DIVISION	OBJECT	AMOUNT
1	199	521	0750	301	0700	3532	57100.00
TOTAL							57,100.00

AGENCY APPROVAL - I certify that the proposed purchase represented by this document is authorized by and is made in accordance with all State (and if applicable Federal) legislation, rules and regulations. I further certify that adequate unencumbered cash and budget expenditure authority exists for this proposed purchase and all other outstanding purchase commitments and accounts payable.	AGENCY AUTHORIZED SIGNATURE:	DATE:
APPROVAL 1	DATE	APPROVAL 2
APPROVAL 2	DATE	

Generated by : New Mexico Energy, Minerals and Natural Resources. Advantage Web System Version 2.49 06/18/02

① VENDOR(S) ONLY ② DFA COPY ③ AGENCY COPY ④ AGENCY COPY

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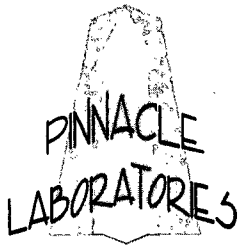
STATE OF NEW MEXICO  
PURCHASE DOCUMENT  
CONTINUATION SHEET

CODE	521	03-199-000799
DATE	05/16/03	BUDGET FY 03

AGENCY NAME ENERGY, MINERALS & NAT RES

TERMS		
DELIVERY DATE	05/16/03	FOB D
BUDGET VERIFIED BY:		

COMM LN	QUANTITY	UNIT	COMMODITY CODE	ACCT LN	ARTICLE AND DESCRIPTION	UNIT COST	TOTAL COST
1	1.0000	EACH	CCCC		PHASE I SURFACE INVESTIGATION AND CLEANUP AT ARAHO, INC.	57100.0000	57100.00
TOTAL							57,100.00



2709-D Pan American Freeway NE  
Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

Bill N.M. Oil Conservation Division  
To: 1220 South St. Francis Dr.  
Santa Fe, NM 87505

Date	Invoice
11/17'03	85783

Client #: 810-134

Project # & Name: Araho

Original  
BALANCE DUE: 2,445.00

PO Number	Terms	Project
	Net 30	PIN ALB-810

Quantity	Description	Rate	Amount
23	Item 005 Method 8021 (BTEX) Non-Aq	40.00	920.00
23	Item 032 Total Pet. Hydrocarbons DRO C6-C28	45.00	1,035.00
35	Item 052 Chloride only	14.00	490.00
Remit to: Pinnacle Laboratories, Inc. 2709-D Pan American Freeway NE Albuquerque, NM 87107			
Approved For Payment MJK 12-22-03			
Accession #: 310136 Authorized By: Martyne Kieling		TOTAL:	2,445.00



STATE OF NEW MEXICO  
PURCHASE DOCUMENT

AGENCY CODE	521	DOCUMENT NUMBER	03-199-000811
DATE	05/23/03	BUDGET FY	03

VENDOR CODE	850454519
VENDOR NAME AND ORDER ADDRESS	
PINNACLE LABORATORIES INC 2709-D PAN AMERICAN FWY NE ALBUQUERQUE, NM 87107	

S H I P T O	OIL CONSERVATION DIVISION 1220 SO. ST. FRANCIS DRIVE SANTA FE, NM 87505
AGENCY CONTACT	SALLY MARTINEZ
PHONE NUMBER	

DO NOT STAPLE BAR CODES

B I L L T O	OIL CONSERVATION DIVISION 1220 SO. ST. FRANCIS DRIVE SANTA FE, NM 87505
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LN	FUND	AGCY	ORG/PRG	APPR UNIT	DIVISION	OBJECT	AMOUNT
01	199	521	P586	300	0700	3532	4000.00
DFA APPROVED							
Maximum of six accounting lines per purchase document							TOTAL
							4,000.00
FOR AGENCY USE:							
LN	FUND	AGCY	ORG/PRG	APPR UNIT	DIVISION	OBJECT	AMOUNT
1	199	521	0750	301	0700	3532	4000.00
TOTAL							4,000.00

<input type="checkbox"/>	PURCHASE REQUISITION (BIDS MUST BE REQUESTED FOR ITEMS OVER \$1,500.00)	BUYER:
RECOMMENDED SOURCE & SPECIAL REMARKS:		
<input type="checkbox"/>	ESTABLISH	RENEWAL NO:
<input checked="" type="checkbox"/>	CONTRACT, PRICE AGREEMENT, PURCHASE ORDER OTHER THAN PROFESSIONAL SERVICE CONTRACTS: (APPROVED VENDORS MUST BE USED FOR ITEMS UNDER CONTRACT)	CPA/PO# 205210702497 EXPIRES: 011304
<input type="checkbox"/>	DIRECT PURCHASE ORDER (ONLY VALID FOR PURCHASES \$1,500.00 AND UNDER)	
<input type="checkbox"/>	EXEMPT FROM THE NM PROCUREMENT CODE PURSUANT TO SECTION	
<input type="checkbox"/>	EXCLUDED FROM PROCUREMENT THROUGH STATE PURCHASING PURSUANT TO SECTION	
<input type="checkbox"/>	FOR ENCUMBERING PURPOSES ONLY REASON:	

APPROVAL 1	DATE	APPROVAL 2	DATE
AGENCY APPROVAL - I certify that the proposed purchase represented by this document is authorized by and is made in accordance with all State (and if applicable Federal) legislation, rules and regulations. I further certify that adequate unencumbered cash and budget expenditure authority exists for this proposed purchase and all other outstanding purchase commitments and accounts payable.			
AGENCY AUTHORIZED SIGNATURE:			
DATE:			

STATE OF NEW MEXICO  
PURCHASE DOCUMENT  
CONTINUATION SHEET

LINE	521	NUMBER	03-199-000811
DATE	05/23/03	BUDGET FY	03

AGENCY NAME ENERGY, MINERALS & NAT RES

TERMS		
DELIVERY DATE	05/23/03	FOB D
BUDGET VERIFIED BY:		

COMM LN	QUANTITY	UNIT	COMMODITY CODE	ACCT LN	ARTICLE AND DESCRIPTION	UNIT COST	TOTAL COST
1	1.0000	EACH	CCCC		LAB SERVICES - ARAHO INC. INVESTIGATION AND CLEANUP	4000.0000	4000.00
TOTAL							4,000.00

Generated by: New Mexico Energy, Minerals and Natural Resources. Advantage Web System Version 2.49 06/18/02 © 2001 State of New Mexico

ARAHO Phase I Costs

*RR*

\$ 100,400.34

3,356.90

9,982.88

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**Total \$113,740.13**

+ Lab      2,445.<sup>00</sup> - Pinnical Lab  
\$ 116,185.<sup>13</sup>      Grand Total Phase I

**Kieling, Martyne**

---

**From:** Joseph J. Tracy [jtracy@intera.com]  
**Sent:** Tuesday, January 13, 2004 5:38 PM  
**To:** Kieling, Martyne  
**Subject:** INTERA invoice No. 11-03-39

Martyne,

I have reviewed the outstanding invoice and called Rhino for clarification. Based on the back-up provided I determined that the Disposal of Miscellaneous Trash line item should equal \$350.00 and the Transportation and Disposal of Materials should equal \$1,192.50. You have the back-up for these amounts let me know if you need any clarification. The total amount due on the outstanding invoice (INTERA No. 11-03-39) with tax should be: **\$3356.90**.

Please call me with questions or if you do not agree. Thanks,

Joe

Joseph J. Tracy, R.G.  
Geologist  
INTERA Inc.  
One Park Square  
6501 Americas Parkway NE  
Suite 820  
Albuquerque, NM 87110  
(505) 246-1600 ext. 219  
Fax (505) 246-2600

This e-mail may contain confidential information or material protected by the attorney-client privilege. If you are not the intended recipient, please inform immediately to Joseph Tracy by return e-mail at [jtracy@intera.com](mailto:jtracy@intera.com) or by telephone at (505) 246-1600 ext. 219

1/14/2004



Norm Survey  
Bill Not Included...  
Billed Full amount on Invoice  
was actually Less

November 11, 2003

Ms. Martyne J. Kieling  
Environmental Geologist  
New Mexico Oil Conservation Division  
1220 South Saint Francis Drive  
Santa Fe, NM 87505

- **RE: Invoice No. 11-03-39**

Ms. Kieling:

INTERA Inc. (INTERA) appreciates the opportunity to work with the New Mexico Oil Conservation Division. Enclosed you will find INTERA Invoice No. 11-03-39, submitted to you for the work conducted through the end of October 2003 at the Araho, Inc. Facility in Lovington, New Mexico. The costs on the enclosed invoice reflect those charges associated with the project management, NORM survey, and field work portion of the project (Tasks 1, 2, and 3).

A final report is currently being prepared by INTERA for your review (Task 4). If you have any questions regarding the enclosed invoice, please do not hesitate to contact me at (505) 246-1600 ext. 219. Thank you very much.

Sincerely,  
**INTERA Inc.**

Joseph Tracy, PG  
Project Manager

Enclosure: Invoice No. 11-03-39 with back-up

**Kieling, Martyne**

**From:** Joseph J. Tracy [jtracy@intera.com]  
**Sent:** Thursday, October 30, 2003 1:14 PM  
**To:** Kieling, Martyne  
**Cc:** Stacy A. Sabol  
**Subject:** ARAHO Change Order

artyne,

ere is the change order. Tasks 1, 2, and 3 are complete for the project. Task 4 (the report) is the only Task which remains finished.

Authorized Amount	\$	101,446.68
Total Costs plus Report Budget (Task 4)	\$	121,280.49
Change Order Amount	\$	<u>19,833.81</u>

is obvious that we are going to have to work on the Rhino costs, what they have submitted and what Konrad has in his notes are two different things. I will be working on that today and tomorrow so we can get you an invoice by Monday. That means that this change order is the maximum amount or worst-case scenario. We need clarification from Rhino on line items 44, 45, 49, and 57 in the attached spreadsheet. We will either get more back-up and/or clarification from them or a reduction in their costs. I apologize for the delay in getting this to you. Thanks and please call me with questions,

oe

Joseph J. Tracy, R.G.  
 Geologist  
 ITERA Inc.  
 One Park Square  
 501 Americas Parkway NE  
 Suite 820  
 Albuquerque, NM 87110  
 (505) 246-1600 ext. 219  
 Fax (505) 246-2600

This e-mail may contain confidential information or material protected by the attorney-client privilege. If you are not the intended recipient, please inform immediately to Joseph Tracy by return e-mail at [jtracy@intera.com](mailto:jtracy@intera.com) or by telephone at (505) 246-1600 ext. 19

0/30/2003

State of New Mexico  
Oil Conservation Division  
Phase I Investigation and Remediation  
Araho, Inc.  
Former Injection Well Disposal Facility,  
Lea County, New Mexico  
Costs to Oct. 30, 2003 and Report Budget

Task 1. Project Coordination and Fieldwork Preparation					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Principal	0001	100.00	hour	3	\$ 300.00
Project Scientist/Engineer/Manager	0003	67.00	hour	4	\$ 268.00
Project Scientist/Engineer/Manager (INTERA J. Tracy)	0003	67.00	hour	38	\$ 2,546.00
Staff Scientist/Engineer	0004	52.00	hour	4	\$ 208.00
Field Technician II	0005	50.00	hour	8	\$ 400.00
<b>Subtotal Professional Labor</b>					<b>\$ 3,722.00</b>
<b>SUBTOTAL TASK 1:</b>					<b>\$ 3,722.00</b>
<b>NMGRT @ 5.8125%</b>					<b>\$ 216.34</b>
<b>GRAND TOTAL TASK 1:</b>					<b>\$ 3,938.34</b>
Task 2. Map Buried Utilities (1-Call) and Perform Naturally Occurring Radioactive Materials (NORM) Survey					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Staff Scientist/Engineer	0004	52.00	hour	2	\$ 104.00
Field Technician II - Mobilization	0005	50.00	hour	16	\$ 800.00
Field Technician II	0005	50.00	hour	8	\$ 400.00
Draftsperson II (Utility Mapping)	0007	50.00	hour	0	\$ -
<b>Subtotal Professional Labor</b>					<b>\$ 1,304.00</b>
Expenses	Contract Line Item	Rate	Unit	# of Units	Total
NORM Survey	"At Cost"	1,300.00	each	1	\$ 1,300.00
<b>Subtotal Expenses</b>					<b>\$ 1,300.00</b>
<b>SUBTOTAL TASK 2:</b>					<b>\$ 2,604.00</b>
<b>NMGRT @ 5.8125%</b>					<b>\$ 151.36</b>
<b>GRAND TOTAL TASK 2:</b>					<b>\$ 2,755.36</b>
Task 3. Field Investigation: Tank Removal/Cleaning/Disposal and Piping Removal/Disposal and Sampling/Trenching					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Project Scientist/Engineer/Manager	0003	67.00	hour	8	\$ 536.00
Staff Scientist/Engineer	0004	52.00	hour	11	\$ 572.00
Field Technician II - Fieldwork	0005	50.00	hour	90	\$ 4,500.00
Field Technician II - Fieldwork (INTERA K. Clark)	0005	50.00	hour	13.5	\$ 675.00
Field Technician II - Foreman	0005	50.00	hour	70	\$ 3,500.00
Field Technician I - Equipment Operator Trackhoe	0006	35.00	hour	60	\$ 2,100.00
Field Technician I - Equipment Operator Trackhoe	0006	35.00	hour	10	\$ 350.00
Field Technician I - Equipment Operator Trackhoe	0006	25.00	hour	70	\$ 1,750.00
Field Technician I - Laborer	0006	20.00	hour	120	\$ 2,400.00
Field Technician I - Laborer (Sub. Rhino)	0006	20.00	hour	112	\$ 2,240.00
Hourly Secretary	0010	30.00	hour	0	\$ -
<b>Subtotal Professional Labor</b>					<b>\$ 18,623.00</b>
Expenses	Contract Line Item	Rate	Unit	# of Units	Total
Mobilization of Equipment	0047	1.75	mile	629	\$ 1,100.75
Disposal of Contaminated Fluids (Product)	0044	10.80	barrel	2,600	\$ 28,080.00
Disposal of Contaminated Fluids (Cleaning Water)	0044	10.80	barrel	965	\$ 10,422.00
Vacuum/Jet Truck	"At Cost"	750.00	day	10	\$ 7,500.00
Vacuum/Jet Truck	"At Cost"	750.00	day	7.25	\$ 5,437.50
Hot Oil Truck	"At Cost"	925.00	day	3.65	\$ 3,376.25
Trackhoe Heavy Duty	0030	646.00	day	6	\$ 3,876.00
Trackhoe Heavy Duty	0030	646.00	day	1	\$ 646.00
Transportation and Disposal of Materials (Scrap Metals, Piping, Tanks) below NORM allowable limits	"At Cost"	195.00	load	6	\$ 1,170.00
Transportation and Disposal of Materials (Scrap Metals, Piping, Tanks) below NORM allowable limits	"At Cost"	195.00	load	1	\$ 195.00
Disposal of Miscellaneous Trash	"At Cost"	40.00	ton	12	\$ 480.00
Disposal of Miscellaneous Trash	"At Cost"	40.00	ton	3	\$ 120.00
Backhoe Medium Duty	0026	157.00	day	6	\$ 942.00
Backhoe Medium Duty	0026	157.00	day	2.3	\$ 361.10
Delivery of Two 20 Yard Roll-Off Containers	"At Cost"	300.00	each	2	\$ 600.00
Clean Sand	"At Cost"	4.00	yard	200	\$ 800.00
Land-Farm of Solid Waste at Rhine's OKD Permitted Facility	0045	31.15	yard	443	\$ 13,799.45
Fresh Water Transport and Use	"At Cost"	1,490.25	project	1	\$ 1,490.25
Comfortable Gas Indicator (CGI) with O2, H2S, CO2	0012	50.00	day	6	\$ 300.00
Fresh Air/Safety Trailer/Personal Air Samplers	"At Cost"	300.00	day	5	\$ 1,500.00
Hand-Held GPS Unit	"At Cost"	5.00	day	6	\$ 30.00
Photomonitoring Detector (PID)	0021	10.00	day	6	\$ 60.00
Mileage	0042	0.25	mile	800	\$ 200.00
Per Diem	0043	65.00	day	6	\$ 390.00
Per Diem	0043	65.00	day	1	\$ 65.00
<b>Subtotal Expenses</b>					<b>\$ 82,941.30</b>
<b>SUBTOTAL TASK 3:</b>					<b>\$ 101,564.30</b>
<b>NMGRT @ 5.8125%</b>					<b>\$ 5,963.42</b>
<b>GRAND TOTAL TASK 3:</b>					<b>\$ 107,467.72</b>
Task 4. Preparation of a Final Report					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Principal	0001	100.00	hour	8	\$ 800.00
Project Scientist/Engineer/Manager	0003	67.00	hour	24	\$ 1,608.00
Staff Scientist/Engineer	0004	52.00	hour	40	\$ 2,080.00
Field Technician II	0005	50.00	hour	24	\$ 1,200.00
Draftsperson II (Figures, Cross Sections)	0007	50.00	hour	16	\$ 800.00
Administrator (Technical Editor)	0009	40.00	hour	6	\$ 240.00
<b>Subtotal Professional Labor</b>					<b>\$ 6,728.00</b>
<b>SUBTOTAL TASK 4:</b>					<b>\$ 6,728.00</b>
<b>NMGRT @ 5.8125%</b>					<b>\$ 391.87</b>
<b>GRAND TOTAL TASK 4:</b>					<b>\$ 7,119.87</b>
<b>PROJECT GRAND TOTAL:</b>					<b>\$ 121,280.49</b>

Notes:  
NMGRT = New Mexico Gross Receipts Tax

Authorized Amount	\$	101,446.68
Total Costs plus Report Budget	\$	121,280.49
<b>Change Order Amount</b>	<b>\$</b>	<b>(19,833.81)</b>



STATE OF NEW MEXICO  
GENERAL SERVICES DEPARTMENT  
PURCHASING DIVISION

GSD/PD 003-D2 (Rev. 12/91)

AWARDED VENDOR  
3 VENDORS

Telephone No. \_\_\_\_\_

PRICE AGREEMENT  
AMENDMENT

PRICE AGREEMENT NUMBER: 30-805-09-18056PRICE AGREEMENT AMENDMENT NO.: 1TERM: OCTOBER 8, 2002 - OCTOBER 7, 2003

SHIP TO:  
NMSIID AS SPECIFIED  
LOCATION AS DESCRIBED  
DESCRIBED IN BID  
SANTA FE NM 87504-1149

INVOICE:  
NMSIID AS SPECIFIED  
LOCATION AS DESCRIBED  
DESCRIBED IN BID  
SANTA FE NM 87504-1149

CONTRACT ORDERS WILL INDICATE AGENCY CONTACT  
PERSON

Procurement Specialist: ELIZABETH OLONA 240Telephone No.: 505-827 - 0480COMMODITY: SITE MAINTENANCE & MONITORING

THIS PRICE AGREEMENT AMENDMENT IS TO BE ATTACHED TO THE RESPECTIVE PRICE AGREEMENT AND BECOME A PART THERE OF.

THIS AMENDMENT IS ISSUED TO REFLECT THE FOLLOWING EFFECTIVE  
OCTOBER 7, 2003.

EXTEND PRICE AGREEMENT FROM: OCTOBER 7, 2003  
TO: NOVEMBER 7, 2003

EXTENSION IS TO ALLOW FOR BID PROCESS.

EXCEPT AS MODIFIED BY THIS AMENDMENT, THE PROVISIONS OF THE PRICE  
AGREEMENT SHALL REMAIN IN FULL FORCE AND EFFECT.

ACCEPTED FOR THE STATE OF NEW MEXICO

  
NEW MEXICO STATE PURCHASING AGENT

DATE: 11/03/03

PURCHASING DIVISION, 1100 ST. FRANCIS DRIVE 87505 /, PO BOX 26110, SANTA FE, NM 87502-0110 (505) 827-0472

IG





One Park Square  
6501 Americas Parkway NE  
Suite 820  
Albuquerque, New Mexico 87110  
Tel: 505 246 1600  
Fax: 505 246 2600

# Fax

To: MARTYNE KIELING From: loc Tracy  
Company: OCD  
Fax: (505) 476-3462 Pages: 2  
Phone: \_\_\_\_\_ Date: 10/8/03  
Re: \_\_\_\_\_ CC: \_\_\_\_\_

\*Includes cover sheet

Comments:

MARTYNE,  
ATTACHED IS A COPY OF OUR AMENDMENT LETTER  
EXTENDING THE CONTRACT UNTIL NOV. 7, 2003. THANKS,  
Joe



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

Joanna Prukop  
Cabinet Secretary

October 7, 2003

**Lori Wrotenbery**  
Director

Oil Conservation Division

Joseph Tracy  
Intera, Inc.  
6501 Americas Pkwy NE  
Albuquerque, NM 87110

**RE: Revised Cost Estimate Based on Preliminary Field Findings  
And Revised Work Plan, June 26, 2003  
Modified on August 11, 2003**

Dear Joseph:

The New Mexico Oil Conservation Division (OCD) hereby approves the revised work plan submitted on June 26, 2003 and modified on August 11, 2003. Based on the fact that the material in the tanks is not liquid as original thought to be by the OCD and as bid by Intera, the revised work plan is approved to include additional costs for the solidification of sludge, the increase in volume to be trucked and the increased volume to be landfarmed. Enclosed please find copies of the two purchase documents that will cover this job. One is for \$57,100 and the other is for \$44,350.

The start of this job is dependant upon the extension of the State Highway Department Site Maintenance & Monitoring Contract 30-805-09-18056. If you have any questions please call me at 505-476-3488.

Sincerely,

Martyne J. Kieling  
Environmental Geologist

Enclosures: Purchase Documents 03-199-000799 and 04-199-000308 and Access Agreement.

cc: Hobbs OCD  
Pat Wise, Lovington City Manager, P.O. Box 1269, Lovington, NM 88260



# CITY OF LOVINGTON

214 South Love ~ Post Office Box 1269  
Lovington, New Mexico 88260

BUSINESS  
505.396.2884

FACSIMILE  
505.396.6328

E-MAIL  
admin@lovington-nm.org

## ADMINISTRATION

PAT WISE  
City Manager

CHARLES KELLEY  
Asst. City Manager

RHONDA JONES  
Clerk/Treasurer

## RECEIVED

OCT 02 2003

OIL CONSERVATION  
DIVISION

## COMMISSIONERS

TROY J. HARRIS  
Mayor

BILL SHIPP  
Mayor Pro-Tem

ANNA TRUJILLO  
Commissioner

DIXIE DRUMOND  
Commissioner

ARTHUR SANCHEZ  
Commissioner

September 29, 2003

New Mexico Energy, Minerals and Natural Resources Dept.  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, NM 87505

Re: Araho Investigation and Remediation Project

Attn: Martyne J. Kieling  
Environmental Geologist

Dear Ms. Kieling:

Enclosed for your files is an executed and filed copy of the Temporary Grant of Easement and Exhibits A & B for your Araho Project just south of Lovington. It is my hope that this dangerous and long neglected incursion over our municipal water supply may be remediated as soon as possible. Please advise of a firm start up date, once that is established.

Sincerely,  
CITY OF LOVINGTON

Pat Wise  
City Manager

xc: Secretary Ron Curry, Department of Environment  
Secretary Joanna Prukop, ENMR Department  
Patrick McMahon, Heidel, Samberson, Newell, Cox and McMahon

**TEMPORARY GRANT OF EASEMENT**

CITY OF LOVINGTON, P.O. Box 1269, Lovington, New Mexico, 88260 (hereinafter referred to as "City"), for consideration, grant to the NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES (hereinafter referred to as "EMNRD") and its OIL CONSERVATION DIVISION (hereinafter referred to as "Division"), their agents, employees and contractors, a temporary and limited easement in, to, upon and over all that portion of the following described real estate in Lea County, New Mexico, together with reasonable access thereto:

**SURFACE ACCESS ONLY:**

A tract of land containing 1 acre, more or less, and being a certain part of the southeast quarter (SE/4) of Section 1, Township 17 South (T. 17 S.), Range 36 East (R. 36 E.), N.M.P.M., Lea County, New Mexico, being more particularly described as follows:

Beginning at a point, the Northeast corner of this tract, from which the Southeast corner of the said Section 1 bears North 89°51' East, a distance of 461.4 feet, and South, a distance of 2291 feet; thence, South 89°51' West, a distance of 208.71 feet to the Northwest corner of this tract; thence, South, a distance of 208.71 feet to the Southwest corner of this tract; thence, North 89°51' East, a distance of 208.71 feet to the Southeast corner of this tract; thence, North, a distance of 208.71 feet to the point of beginning.

Subject to reservations, restrictions and easements appearing of record.

Access to said tract shall be by the route identified in Exhibit "A" attached here to and incorporated by reference.

Said easement is given for the purpose of conducting an investigation and remediation of contamination believed to exist at the site of the abandoned Araho, Inc. injection well facility located on the property described herein, which investigation may include drilling, constructing and maintaining upon the Property a monitor well or wells with which the Oil Conservation Division will use to assess and monitor contaminants believed to exist below the surface, routine visits to the Property, ingress and egress to the Property, sampling and inspecting the aforementioned monitor wells following initial construction, excavation of the property to investigate the nature and extent of contaminants believed to exist, excavation of the Property to remove any contamination found, and other activities inherent in the aforesaid investigation and remediation. Said easement shall terminate two years from the date signed unless terminated sooner by the Division's filing of a notice that it has concluded its investigation and remediation activities at the site. The City agrees not to unreasonably withhold an extension of this Easement if the Division files a notice that it has not concluded its investigation and remediation activities at the site.

This Easement is contingent upon the Division's acceptance of the terms and conditions set forth in the Addendum attached hereto as Exhibit "B" and incorporated by reference.

Witness my hand and seal this 26 day of September, 2003.

CITY OF LOVINGTON  
Lea County, New Mexico

By: Troy J. Harris  
Troy J. Harris, Mayor

ATTEST:

By: Rhonda Jones  
Rhonda Jones, City Clerk

#### ACKNOWLEDGEMENTS

STATE OF NEW MEXICO )

COUNTY OF LEA )

The foregoing instrument was acknowledged before me this 26<sup>th</sup> day of September, 2003, by  
CITY OF LOVINGTON Mayor Troy J. Harris

Shannon D. Lester  
Notary Public

My commission expires:

May 6, 2006

STATE OF NEW MEXICO )

COUNTY OF LEA )

The foregoing instrument was acknowledged before me this 26<sup>th</sup> day of September, 2003, by  
CITY OF LOVINGTON Clerk Rhonda Jones

Shannon D. Lester  
Notary Public

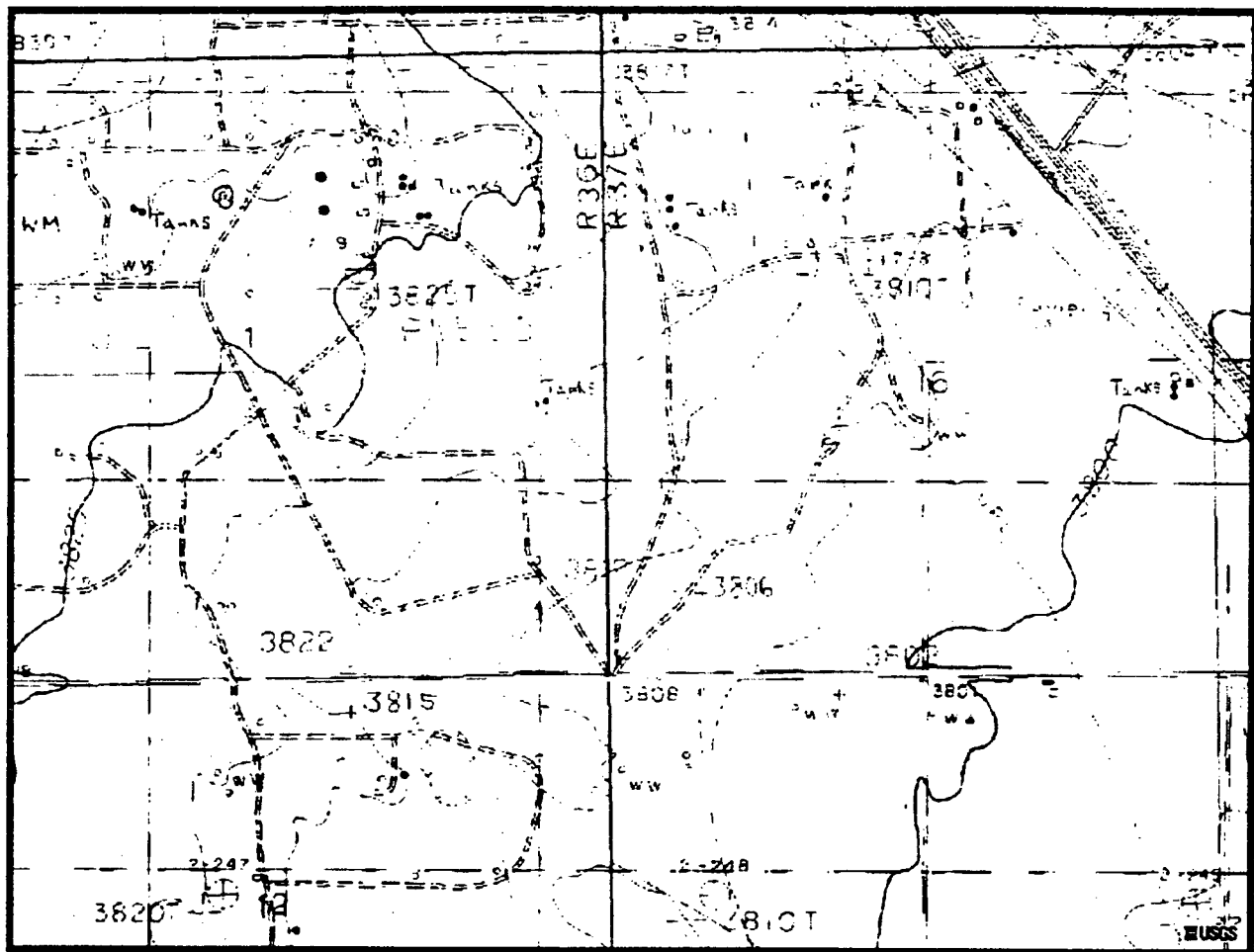
My commission expires:

May 6, 2006

## Exhibit A

Yellow arrows highlight the driving directions from the Hobbs – Lovington Highway. The route is long but a fence now blocks an old lease road that used to be the most direct route.

Map: 7.5 Topographic Lovington SE Quad.



## Exhibit B

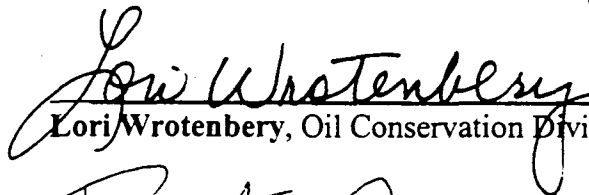
### ADDENDUM

The following term and conditions are made part of the Temporary Grant of Easement and are set forth for the purpose of protecting the City of Lovington's interests in this matter.

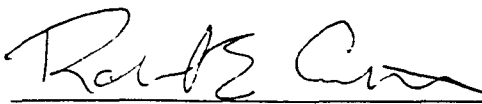
1. Regarding real property owned by the City, the Division will conduct no activity off of the Property without the express written consent of City.
2. The Division will not landfarm contaminated soil on the Property.
3. All activity undertaken by the Division will be at its own expense.
4. The Division will give the City 48 hours notice of all activities to be conducted on the Property.
5. Select City personnel and its agent(s) shall have unrestricted access to the Property, considering reasonable health and safety rules set forth by the Division.
6. The Division will contemporaneously copy all correspondence, reports, sampling results, and the like to the City.
7. Any fill material brought onto the Property by Division shall be not unlike background soils.
8. For the purposes set forth in the Easement, the Division agrees that Navajo Refining Company, including any parent or subsidiary, is not an agent, employee or contractor of the Division.
9. The Easement, Exhibit "A" and this Addendum are binding upon the Division, its agents, employees, and contractors and the Division agrees to provide each with a copy of same.

WITNESS my hand and seal this 2 day of September, 2003.

By:

  
Lori Wrotenbery, Oil Conservation Division Director

By:

  
Robert Castillo, Administrative Services Division Director

State of New Mexico  
Oil Conservation Division  
Phase I Investigation and Remediation  
Araho, Inc.  
Former Injection Well Disposal Facility,  
Lea County, New Mexico  
Revised Cost Estimate  
Revision III  
August 11, 2003

Task 1. Project Coordination and Fieldwork Preparation					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Principal	0001	100.00	hour	4	\$ 400.00
Project Scientist/Engineer/Manager	0003	67.00	hour	4	\$ 268.00
Staff Scientist/Engineer	0004	52.00	hour	4	\$ 208.00
Field Technician II	0005	50.00	hour	8	\$ 400.00
Subtotal Professional Labor					\$ 1,276.00
SUBTOTAL TASK 1:					\$ 1,276.00
NMGRT @ 5.8125%					\$ 74.17
GRAND TOTAL TASK 1:					\$ 1,350.17
Task 2. Map Buried Utilities (I-Call) and Perform Naturally Occurring Radioactive Materials (NORM) Survey					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Staff Scientist/Engineer	0004	52.00	hour	2	\$ 104.00
Field Technician II - Mobilization	0005	50.00	hour	16	\$ 800.00
Field Technician II	0005	50.00	hour	8	\$ 400.00
Draftsperson II (Utility Mapping)	0007	50.00	hour	8	\$ 400.00
Subtotal Professional Labor					\$ 1,704.00
Expenses	Contract Line Item	Rate	Unit	# of Units	Total
NORM Survey	"At Cost"	1,300.00	each	1	\$ 1,300.00
Subtotal Expenses					\$ 1,300.00
SUBTOTAL TASK 2:					\$ 3,004.00
NMGRT @ 5.8125%					\$ 174.61
GRAND TOTAL TASK 2:					\$ 3,178.61
Task 3. Field Investigation: Tank Removal/Cleaning/Disposal and Piping Removal/Disposal and Sampling/Trenching					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Project Scientist/Engineer/Manager	0003	67.00	hour	8	\$ 536.00
Staff Scientist/Engineer	0004	52.00	hour	12	\$ 624.00
Field Technician II - Fieldwork*	0005	50.00	hour	90	\$ 4,500.00
Field Technician II - Foreman	0005	50.00	hour	60	\$ 3,000.00
Field Technician I - Equipment Operator Trackhoe	0006	35.00	hour	60	\$ 2,100.00
Field Technician I - Equipment Operator Backhoe	0006	25.00	hour	60	\$ 1,500.00
Field Technician I - Laborer	0006	20.00	hour	60	\$ 1,200.00
Field Technician I - Laborer	0006	20.00	hour	60	\$ 1,200.00
Hourly Secretary	0010	30.00	hour	4	\$ 120.00
Subtotal Professional Labor					\$ 14,780.00
Expenses	Contract Line Item	Rate	Unit	# of Units	Total
Mobilization of Equipment	0047	1.75	mile	630	\$ 1,102.50
Disposal of Contaminated Fluids (Product)	0044	10.80	barrel	2,600	\$ 28,080.00
Disposal of Contaminated Fluids (Cleaning Water)	0044	10.80	barrel	1,000	\$ 10,800.00
Vacuum/Jet Truck	"At Cost"	750.00	day	6	\$ 4,500.00
Trackhoe Heavy Duty	0030	646.00	day	6	\$ 3,876.00
Transportation and Disposal of Materials (Scrap Metals, Piping, Tanks) below NORM allowable limits	"At Cost"	195.00	load	6	\$ 1,170.00
Disposal of Miscellaneous Trash	"At Cost"	40.00	ton	12	\$ 480.00
Backhoe Medium Duty	0026	157.00	day	6	\$ 942.00
Delivery of Two 20 Yard Roll-Off Containers	"At Cost"	300.00	each	2	\$ 600.00
Clean Sand	"At Cost"	4.00	yard	250	\$ 1,000.00
Land-Farm of Solid Waste at Rhino's OCD Permitted Facility	0045	31.15	yard	470	\$ 14,640.50
Combustible Gas Indicator (CGI) with O2, H2S, CO2	0012	50.00	day	6	\$ 300.00
Fresh Air/Safety Trailer/Personal Air Samplers	"At Cost"	300.00	day	6	\$ 1,800.00
Hand-Held GPS Unit	"At Cost"	5.00	day	3	\$ 15.00
Photoionization Detector (PID)	0021	10.00	day	6	\$ 60.00
Mileage	0042	0.25	mile	800	\$ 200.00
Per Diem	0043	65.00	day	8	\$ 520.00
Subtotal Expenses					\$ 70,086.00
SUBTOTAL TASK 3:					\$ 84,866.00
NMGRT @ 5.8125%					\$ 4,932.84
GRAND TOTAL TASK 3:					\$ 89,798.84
Task 4. Preparation of a Final Report					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Principal	0001	100.00	hour	8	\$ 800.00
Project Scientist/Engineer/Manager	0003	67.00	hour	24	\$ 1,608.00
Staff Scientist/Engineer	0004	52.00	hour	40	\$ 2,080.00
Field Technician II	0005	50.00	hour	24	\$ 1,200.00
Draftsperson II (Figures, Cross Sections)	0007	50.00	hour	16	\$ 800.00
Administrator (Technical Editor)	0009	40.00	hour	6	\$ 240.00
Subtotal Professional Labor					\$ 6,728.00
SUBTOTAL TASK 4:					\$ 6,728.00
NMGRT @ 5.8125%					\$ 391.07
GRAND TOTAL TASK 4:					\$ 7,119.07
<b>PROJECT GRAND TOTAL:</b>					<b>\$ 101,446.68</b>

Notes:

NMGRT = New Mexico Gross Receipts Tax

\* The labor rate shown for "Field Technician II - Fieldwork" is provided on the assumption that a maximum of 90 hours of INTERA fieldwork and project management time will be required to complete the tank and piping removal and disposal portion of the project (subcontractor fieldwork time 60 hours total). This time estimate also includes sample trenching and sample collection; however, sample analytical costs are not included in this cost estimate. All INTERA costs will be invoiced on a time and materials basis; therefore a reduction of time or materials taken to complete the project results in a reduction of the final costs of the project.



**Kieling, Martyne**

---

**From:** Joseph J. Tracy [jtracy@intera.com]  
**Sent:** Monday, August 11, 2003 5:15 PM  
**To:** Kieling, Martyne  
**Cc:** Stacy A. Sabol  
**Subject:** Cost Estimate - Araho Facility

Martyne,

As you requested, here are the revised costs again for the Araho Facility, with the following changes:

- 1) Hot Oil Truck Removed
- 2) Cost for solids to be land farmed rather than disposed of
- 3) A new mobilization charge for equipment because now it is being moved out of Hobbs and we'll be charged to move it back when the job does begin. This charge resulted from the postponement of the work.
- 4) No new disposal rate for disposal of liquids. Rhino said the \$10.80/barrel was the best they could do.

Please call me if you have any questions. Thank you very much,

Joe

Joseph J. Tracy, R.G.  
Geologist  
INTERA Inc.  
One Park Square  
6501 Americas Parkway NE  
Suite 820  
Albuquerque, NM 87110  
(505) 246-1600 ext. 219  
Fax (505) 246-2600

This e-mail may contain confidential information or material protected by the attorney-client privilege. If you are not the intended recipient, please inform immediately to Joseph Tracy by return e-mail at [jtracy@intera.com](mailto:jtracy@intera.com) or by telephone at (505) 246-1600 ext. 219

8/14/2003

Telnet - 164.64.103.12

Connect Edit Terminal Help

ACTION: R SCREEN: EXP2 USERID: Fach

09/03/03 03:47:03 PM

EXPENSE BUDGET INQUIRY

BUDGET FY= 04 FUND= 199 AGENCY= 521  
ORGANIZATION= 0750 ACTIVITY= FUNCTION=  
OBJECT= 3532  
DESCRIPTION: REPORTABLE OTHER SERVICES  
SUB-OBJECT OPTION: BUDGETED POSITIONS: 0.00 REV SOURCE REF 1:  
STATUS IND: A SPENDING CONTROL IND: REV SOURCE REF 2:  
APPROPRIATION UNIT: 301 REV SOURCE REF 3:  
SERIES NUM:

	CURRENT AMOUNTS	BEGIN DAY AMOUNTS
APPROVED BUDGET:	750,000.00	
CURRENT MODIFIED BUDGET:	750,000.00	750,000.00
PRE-ENCUMBERED:	239,588.00	239,588.00
ENCUMBERED:	76,682.15	76,682.15
EXPENDED:	0.00	0.00
UNOBLIGATED:	673,317.85	
UNCOMMITTED:	433,729.85	

# ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

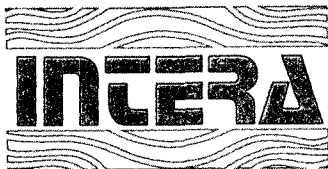
## Outstanding Encumbrance Report by Org Range and Date

0750 to 0750  
7/1/2002 to 9/3/2003

Org	Object	PO Number	FY	PO Date	Vendor No.	Vendor Name	Line No.	Purchase Amt.	Expense Amt.	Current O/S Bal.
0750	3522	03199000604	03	02/21/2003	850454519	PINNACLE LABORATORIES INC	01	\$4,400.00	0.00	\$4,400.00
0750	3522	03199000605	03	02/21/2003	752439743	TRACE ANALYSIS INC	01	\$9,200.00	2,875.00	\$6,325.00
0750	3522	03199000606	03	02/21/2003	0000005086	INTERA INCORPORATED	01	\$15,000.00	0.00	\$15,000.00
0750	3522	03199000607	03	02/21/2003	911641772	AMEC EARTH & ENVIRONMENTAL INC		\$60,000.00	0.00	\$60,000.00
0750	3532	04199000046	04	07/02/2003	0000009904	BENTERRA CORPORATION	01	\$6,546.65	0.00	\$6,546.65
0750	3532	04199000057	04	07/03/2003	850403057	A-PLUS WELL SERVICE INC	01	\$19,200.00	0.00	\$19,200.00
0750	3532	04199000141	04	07/15/2003	751498487	MAYO MARRS CASING PULLING INC01		\$50,935.50	0.00	\$50,935.50
0750	3532	03199000199	03	11/26/2002	751498487	MAYO MARRS CASING PULLING INC01		\$114,350.50	0.00	\$114,350.50
0750	3532	03199000476	03	04/02/2003	751498487	MAYO MARRS CASING PULLING INC01		\$44,929.50	0.00	\$44,929.50
0750	3532	03199000479	03	04/02/2003	751498487	MAYO MARRS CASING PULLING INC01		\$35,717.00	0.00	\$35,717.00
0750	3532	03199000533	03	04/02/2003	751498487	MAYO MARRS CASING PULLING INC01		\$31,377.50	0.00	\$31,377.50
0750	3532	03199000539	03	05/13/2003	751498487	MAYO MARRS CASING PULLING INC01		\$210,156.10	0.00	\$210,156.10
0750	3532	03199000540	03	04/09/2003	751498487	MAYO MARRS CASING PULLING INC01		\$309,079.00	0.00	\$309,079.00
0750	3532	03199000694	03	04/16/2003	850403057	A-PLUS WELL SERVICE INC	01	\$55,999.00	48,696.81	\$7,302.19
0750	3532	03199000715	03	04/23/2003	850403057	A-PLUS WELL SERVICE INC	01	\$25,852.40	7,479.53	\$18,372.87
0750	3532	03199000799	03	05/16/2003	0000005086	INTERA INCORPORATED	01	\$57,100.00	0.00	\$57,100.00
0750	3532	03199000803	03	06/05/2003	850403057	A-PLUS WELL SERVICE INC	01	\$17,424.00	0.00	\$17,424.00
0750	3532	03199000811	03	05/23/2003	850454519	PINNACLE LABORATORIES INC	01	\$4,000.00	0.00	\$4,000.00
Grand Total:								\$1071267.15	\$9,051.34	\$1012215.81

FTI

found them for



RECEIVED

AUG 14 2003

OIL CONSERVATION  
DIVISION

**Intera Incorporated**  
9111A Research Boulevard  
Austin, Texas 78758  
Telephone: 512 425 2000  
Fax: 512 425 2099

New Mexico Oil Conservation Division  
Attn: Sally Martinez  
1220 South Saint Francis Drive  
Santa Fe, NM 87505

August 10, 2003  
Invoice No:07-03-40  
PROJECT NO: NMO-ARA

To Invoice for services rendered.

RE: Phase I Surface Investigation and Clean-up at ARAHO, Inc

Contract#308050918056

PO#03-199-000799

Billing Period: 7-1-2003/7-31-2003

Project Manager: Joseph Tracy

**Professional Services**

**Task 1-Project Coordination & Fieldwork Preparation**

**Project Geologist**

J. Tracy	5.50	hrs at	\$67.00	\$368.50
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**Staff Engineer**

J. Marez	9.00	hrs at	\$52.00	468.00
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Subtotal	14.50			<u>\$836.50</u>
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Total Charges				<u>836.50</u>
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NMGRT 5.8125%				<u>48.62</u>
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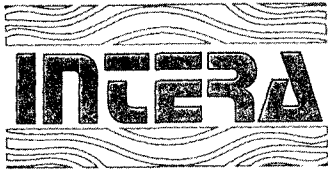
<b>Total Invoice</b>				<b><u>\$885.12</u></b>
----------------------	--	--	--	------------------------

Approved by: 71977

Please remit payment to:

INTERA Inc  
9111A Research Blvd.  
Austin, TX 78758

PLEASE REFERENCE INVOICE NUMBER ON ALL PAYMENTS



RECEIVED

JUL 14 2003

OIL CONSERVATION  
DIVISION

**Intera Incorporated**  
9111A Research Boulevard  
Austin, Texas 78758  
Telephone: 512 425 2000  
Fax: 512 425 2099

New Mexico Oil Conservation Division  
Attn: Sally Martinez  
1220 South Saint Francis Drive  
Santa Fe, NM 87505

July 15, 2003  
Invoice No:06-03-34  
PROJECT NO: NMO-ARA

To Invoice for services rendered.

RE: Phase I Surface Investigation and Clean-up at ARAHO, Inc

Contract#308050918056

PO#03-199-000799

Billing Period: 6-1-2003/6-30-2003

Project Manager: Joseph Tracy

**Professional Services**

**Task 1-Project Coordination & Fieldwork Preparation**

**Principal**

S. Sabol	3.00	hrs at	\$100.00	\$300.00
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**Project Geologist**

J. Tracy	12.00	hrs at	\$67.00	804.00
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**Staff Engineer**

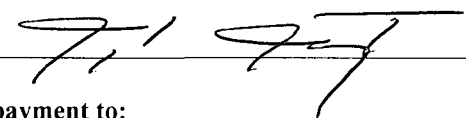
J. Marez	4.00	hrs at	\$52.00	208.00
----------	------	--------	---------	--------

Subtotal	19.00			1,312.00
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Total Charges				1,312.00
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NMGRT 5.8125%				76.26
---------------	--	--	--	-------

<b>Total Invoice</b>				<b>\$1,388.26</b>
----------------------	--	--	--	-------------------

Approved by: 

Please remit payment to:

INTERA Inc  
9111A Research Blvd.  
Austin, TX 78758

PLEASE REFERENCE INVOICE NUMBER ON ALL PAYMENTS



RECEIVED

JUN 20 2003

OIL CONSERVATION  
DIVISION

**Intera Incorporated**  
One Park Square, Suite 820  
6501 Americas Parkway NE  
Albuquerque, NM 87110  
Telephone: 505 246 1600  
Fax: 505 246 2600

June 26, 2003

Ms. Martyne J. Kieling  
Environmental Geologist  
New Mexico Oil Conservation Division  
1220 South Saint Francis Drive  
Santa Fe, NM 87505

**RE: Request for Change Order**

- **Phase I Investigation and Remediation, Araho, Inc., Former Injection Well Disposal Facility, Lea County, New Mexico**

Ms. Kieling:

Upon your approval of our proposal and issuance of a purchase order (Document No. 03-199-000799) INTERA, Inc. (INTERA) began preliminary work at the Araho, Inc. Facility (Site) in Lea County, New Mexico. INTERA's subcontractor, Rhino Environmental Services, Inc. (Rhino) of El Paso, Texas, sent representatives to the Site to collect samples of the materials in the aboveground storage tanks (ASTs) in order to profile the waste stream prior to disposal. Upon opening tanks and attempting to retrieve samples, it was determined that most of the waste in the ASTs, originally assumed to be readily viscous liquid, was in a semi-solid state. Additionally, further inspection by Rhino determined that less than 1% of the total waste material is recyclable (the original cost assumed that the waste material could be recycled rather than disposed of).

INTERA requests that the New Mexico Oil Conservation Division (OCD) issue a change order for the project in the amount of **\$46,122.40**. The estimated total project costs, including the additional costs, are outlined on the attached spreadsheet. The summary of additional costs is:

1. The costs for the disposal of waste material liquids has increased to \$10.80 barrel;
2. INTERA included costs for a hot oil truck;
3. INTERA included costs for mixing semi-solid waste material with sand and disposing of it as solid waste;
4. The amount of time Rhino workers on site will increase by 10 hours;
5. INTERA oversite time, field work time, and project management time has increased.

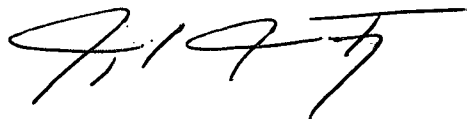
All costs will be invoiced on a time and materials basis. It should be noted that if heating the waste material with a hot oil truck will allow the waste material to become viscous enough to be pumped from each AST, then the line items outlining the costs to mix the semi-solid waste material with sand and to dispose of the waste material/sand mixture as solid waste can be eliminated.

INTERA assumes the following:

1. All field work related to the tank removal and soil sampling can be completed in a period of 60 hours;
2. All materials (either metal or waste material) are below Naturally Occurring Radioactive Materials (NORM) allowable limits for transportation and disposal. Any material requiring disposal that exceeds NORM allowable limits may result in an increase in costs;
3. At least 60% of the waste material will be sufficiently viscous to be vacuumed from each AST after high-pressure water jetting. The remaining 40% of the waste material will be removed either by high-pressure water jetting and vacuuming, heating with a hot oil truck and then high pressure jetting and vacuuming, or by mechanically opening each ASTs by removing fasteners holding the ASTs together and mixing the waste material with clean sand.
4. All other applicable assumptions as stated in the original Scope of Work (SOW) dated April 30, 2003 are still in effect.

Please call us with any questions or comments regarding this change order. Thank you very much.

Sincerely,  
**INTERA Inc.**



Joseph Tracy, RG  
Project Manager



Stacy Sabol  
Sector Manager

Enclosure:

- Revised Cost Estimate, Phase I Investigation and Remediation, Araho, Inc., Former Injection Well Disposal Facility, Lea County, New Mexico



State of New Mexico  
Oil Conservation Division  
Phase I Investigation and Remediation  
Araho, Inc.  
Former Injection Well Disposal Facility,  
Lea County, New Mexico  
Revised Cost Estimate

Task 1. Project Coordination and Fieldwork Preparation					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Principal	0001	100.00	hour	4	\$ 400.00
Project Scientist/Engineer/Manager	0003	67.00	hour	4	\$ 268.00
Staff Scientist/Engineer	0004	52.00	hour	4	\$ 208.00
Field Technician II	0005	50.00	hour	8	\$ 400.00
Subtotal Professional Labor					\$ 1,276.00
SUBTOTAL TASK 1:					\$ 1,276.00
NMGRT @ 5.8125%					\$ 74.17
GRAND TOTAL TASK 1:					\$ 1,350.17
Task 2. Map Buried Utilities (I-Call) and Perform Naturally Occurring Radioactive Materials (NORM) Survey					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Staff Scientist/Engineer	0004	52.00	hour	2	\$ 104.00
Field Technician II - Mobilization	0005	50.00	hour	16	\$ 800.00
Field Technician II	0005	50.00	hour	8	\$ 400.00
Draftsperson II (Utility Mapping)	0007	50.00	hour	8	\$ 400.00
Subtotal Professional Labor					\$ 1,704.00
Expenses	Contract Line Item	Rate	Unit	# of Units	Total
NORM Survey	"At Cost"	1,300.00	each	1	\$ 1,300.00
Subtotal Expenses					\$ 1,300.00
SUBTOTAL TASK 2:					\$ 3,004.00
NMGRT @ 5.8125%					\$ 174.61
GRAND TOTAL TASK 2:					\$ 3,178.61
Task 3. Field Investigation: Tank Removal/Cleaning/Disposal and Piping Removal/Disposal and Sampling/Trenching					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Project Scientist/Engineer/Manager	0003	67.00	hour	8	\$ 536.00
Staff Scientist/Engineer	0004	52.00	hour	12	\$ 624.00
Field Technician II - Fieldwork*	0005	50.00	hour	90	\$ 4,500.00
Field Technician II - Foreman	0005	50.00	hour	60	\$ 3,000.00
Field Technician I - Equipment Operator Trackhoe	0006	35.00	hour	60	\$ 2,100.00
Field Technician I - Equipment Operator Backhoe	0006	25.00	hour	60	\$ 1,500.00
Field Technician I - Laborer	0006	20.00	hour	60	\$ 1,200.00
Field Technician I - Laborer	0006	20.00	hour	60	\$ 1,200.00
Hourly Secretary	0010	30.00	hour	4	\$ 120.00
Subtotal Professional Labor					\$ 14,780.00
Expenses	Contract Line Item	Rate	Unit	# of Units	Total
Disposal of Contaminated Fluids (Product)	0044	10.80	barrel	2,600	\$ 28,080.00
Disposal of Contaminated Fluids (Cleaning Water)	0044	10.80	barrel	1,000	\$ 10,800.00
Vacuum/Jet Truck	"At Cost"	750.00	day	6	\$ 4,500.00
Trackhoe Heavy Duty	0030	646.00	day	6	\$ 3,876.00
Transportation and Disposal of Materials (Scrap Metals, Piping, Tanks) below NORM allowable limits	"At Cost"	195.00	load	6	\$ 1,170.00
Disposal of Miscellaneous Trash	"At Cost"	40.00	ton	12	\$ 480.00
Backhoe Medium Duty	0026	157.00	day	6	\$ 942.00
Hot Oil Truck	"At Cost"	925.00	day	3	\$ 2,775.00
Delivery of Two 20 Yard Roll-Off Containers	"At Cost"	300.00	ench	2	\$ 600.00
Clean Sand	"At Cost"	4.00	yard	250	\$ 1,000.00
Disposal of Solid Waste Material (sand mixed with non-pumpable semi solid waste material)	0045	6.48	barrel	2260	\$ 14,644.80
Combustible Gas Indicator (CGI) with O2, H2S, CO2	0012	50.00	day	6	\$ 300.00
Fresh Air/Safety Trailer/Personal Air Samplers	"At Cost"	300.00	day	6	\$ 1,800.00
Hand-Held GPS Unit	"At Cost"	5.00	day	3	\$ 15.00
Photoionization Detector (PID)	0021	10.00	day	6	\$ 60.00
Mileage	0042	0.25	mile	800	\$ 200.00
Per Diem	0043	65.00	day	8	\$ 520.00
Subtotal Expenses					\$ 71,762.80
SUBTOTAL TASK 3:					\$ 86,542.80
NMGRT @ 5.8125%					\$ 5,030.30
GRAND TOTAL TASK 3:					\$ 91,573.10
Task 4. Preparation of an Final Report					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Principal	0001	100.00	hour	8	\$ 800.00
Project Scientist/Engineer/Manager	0003	67.00	hour	24	\$ 1,608.00
Staff Scientist/Engineer	0004	52.00	hour	40	\$ 2,080.00
Field Technician II	0005	50.00	hour	24	\$ 1,200.00
Draftsperson II (Figures, Cross Sections)	0007	50.00	hour	16	\$ 800.00
Administrator (Technical Editor)	0009	40.00	hour	6	\$ 240.00
Subtotal Professional Labor					\$ 6,728.00
SUBTOTAL TASK 4:					\$ 6,728.00
NMGRT @ 5.8125%					\$ 391.07
GRAND TOTAL TASK 4:					\$ 7,119.07
PROJECT GRAND TOTAL:					\$ 103,220.94

Notes:

NMGRT = New Mexico Gross Receipts Tax

\* The labor rate shown for "Field Technician II - Fieldwork" is provided on the assumption that a maximum of 90 hours of INTERA fieldwork and project management time will be required to complete the tank and piping removal and disposal portion of the project (subcontractor fieldwork time 60 hours total). This time estimate also includes sample trenching and sample collection; however, sample analytical costs are not included in this cost estimate. All INTERA costs will be invoiced on a time and materials basis; therefore a reduction of time or materials taken to complete the project results in a reduction of the final costs of the project.



State of New Mexico  
Oil Conservation Division  
Phase I Investigation and Remediation  
Araho, Inc.  
Former Injection Well Disposal Facility,  
Lea County, New Mexico  
Revised Cost Estimate

Task 1. Project Coordination and Fieldwork Preparation					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Principal	0001	100.00	hour	4	\$ 400.00
Project Scientist/Engineer/Manager	0003	67.00	hour	4	\$ 268.00
Staff Scientist/Engineer	0004	52.00	hour	4	\$ 208.00
Field Technician II	0005	50.00	hour	8	\$ 400.00
<b>Subtotal Professional Labor</b>					<b>\$ 1,276.00</b>
<b>SUBTOTAL TASK 1:</b>					<b>\$ 1,276.00</b>
<b>NMGRT @ 5.8125%:</b>					<b>\$ 74.17</b>
<b>GRAND TOTAL TASK 1:</b>					<b>\$ 1,350.17</b>
Task 2. Map Buried Utilities (1-Call) and Perform Naturally Occurring Radioactive Materials (NORM) Survey					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
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<b>Subtotal Professional Labor</b>					<b>\$ 1,704.00</b>
Expenses	Contract Line Item	Rate	Unit	# of Units	Total
NORM Survey	"At Cost"	1,300.00	each	1	\$ 1,300.00
<b>Subtotal Expenses</b>					<b>\$ 1,300.00</b>
<b>SUBTOTAL TASK 2:</b>					<b>\$ 3,004.00</b>
<b>NMGRT @ 5.8125%:</b>					<b>\$ 174.61</b>
<b>GRAND TOTAL TASK 2:</b>					<b>\$ 3,178.61</b>
Task 3. Field Investigation: Tank Removal/Cleaning/Disposal and Piping Removal/Disposal and Sampling/Trenching					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
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Field Technician I - Laborer	0006	20.00	hour	60	\$ 1,200.00
Hourly Secretary	0010	30.00	hour	4	\$ 120.00
<b>Subtotal Professional Labor</b>					<b>\$ 14,780.00</b>
Expenses	Contract Line Item	Rate	Unit	# of Units	Total
Disposal of Contaminated Fluids (Product)	0044	10.80	barrel	2,600	\$ 28,080.00
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Backhoe Medium Duty	0026	157.00	day	6	\$ 942.00
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Clean Sand	"At Cost"	4.00	yard	250	\$ 1,000.00
Disposal of Solid Waste Material (sand mixed with non-pumpable semi-solid waste material)	0045	6.48	barrel	2260	\$ 14,644.80
Combustible Gas Indicator (CGI) with O2, H2S, CO2	0012	50.00	day	6	\$ 300.00
Fresh Air/Safety Trailer/Personal Air Samplers	"At Cost"	300.00	day	6	\$ 1,800.00
Hand-Held GPS Unit	"At Cost"	5.00	day	3	\$ 15.00
Photoionization Detector (PID)	0021	10.00	day	6	\$ 60.00
Mileage	0042	0.25	mile	800	\$ 200.00
Per Diem	0043	65.00	day	8	\$ 520.00
<b>Subtotal Expenses</b>					<b>\$ 71,762.80</b>
<b>SUBTOTAL TASK 3:</b>					<b>\$ 86,542.80</b>
<b>NMGRT @ 5.8125%:</b>					<b>\$ 5,030.38</b>
<b>GRAND TOTAL TASK 3:</b>					<b>\$ 91,573.18</b>
Task 4. Preparation of an Final Report					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Principal	0001	100.00	hour	8	\$ 800.00
Project Scientist/Engineer/Manager	0003	67.00	hour	24	\$ 1,608.00
Staff Scientist/Engineer	0004	52.00	hour	40	\$ 2,080.00
Field Technician II	0005	50.00	hour	24	\$ 1,200.00
Draftsperson II (Figures, Cross Sections)	0007	50.00	hour	16	\$ 800.00
Administrator (Technical Editor)	0009	40.00	hour	6	\$ 240.00
<b>Subtotal Professional Labor</b>					<b>\$ 6,728.00</b>
<b>SUBTOTAL TASK 4:</b>					<b>\$ 6,728.00</b>
<b>NMGRT @ 5.8125%:</b>					<b>\$ 391.67</b>
<b>GRAND TOTAL TASK 4:</b>					<b>\$ 7,119.67</b>
<b>PROJECT GRAND TOTAL:</b>					<b>\$ 103,220.94</b>

Notes:

NMGRT = New Mexico Gross Receipts Tax

\* The labor rate shown for "Field Technician II - Fieldwork" is provided on the assumption that a maximum of 90 hours of INTERA fieldwork and project management time will be required to complete the tank and piping removal and disposal portion of the project (subcontractor fieldwork time 60 hours total). This time estimate also includes sample trenching and sample collection; however, sample analytical costs are not included in this cost estimate. All INTERA costs will be invoiced on a time and materials basis; therefore a reduction of time or materials taken to complete the project results in a reduction of the final costs of the project.



One Park Square  
6501 Americas Parkway NE  
Suite 820  
Albuquerque, New Mexico 87110  
Tel: 505 246 1600  
Fax: 505 246 2600

# Fax

To: MARTYNE KEILING From: LOC TRACY  
Company: OCD  
Fax: (505) 476-3462 Pages: 4  
Phone: \_\_\_\_\_ Date: 6/27/03  
Re: CHANGE ORDER CC: \_\_\_\_\_

\*Includes cover sheet

**Comments:**

MARTYNE,  
ATTACHED IS OUR CHANGE ORDER REQUEST LETTER  
W/ REVISED COST ESTIMATE SPREADSHEET. PLEASE  
REVIEW & CALL ME W/ ANY QUESTIONS. THANK  
YOU!



**Intera Incorporated**  
One Park Square, Suite 820  
6501 Americas Parkway NE  
Albuquerque, NM 87110  
Telephone: 505 246 1600  
Fax: 505 246 2600

June 26, 2003

Ms. Martyne J. Kicling  
Environmental Geologist  
New Mexico Oil Conservation Division  
1220 South Saint Francis Drive  
Santa Fe, NM 87505

*\* August 11th. Start Date*

*6 10 Hours Pay*

**RE: Request for Change Order**

- **Phase I Investigation and Remediation Facility, Lea County, New Mexico**

sal

Ms. Kicling:

Upon your approval of our proposal and issuance of a purchase order (Document No. 03-199-000799) INTERA, Inc. (INTERA) began preliminary work at the Arahco, Inc. Facility (Site) in Lea County, New Mexico. INTERA's subcontractor, Rhino Environmental Services, Inc. (Rhino) of El Paso, Texas, sent representatives to the Site to collect samples of the materials in the aboveground storage tanks (ASTs) in order to profile the waste stream prior to disposal. Upon opening tanks and attempting to retrieve samples, it was determined that most of the waste in the ASTs, originally assumed to be readily viscous liquid, was in a semi-solid state. Additionally, further inspection by Rhino determined that less than 1% of the total waste material is recyclable (the original cost assumed that the waste material could be recycled rather than disposed of).

INTERA requests that the New Mexico Oil Conservation Division (OCD) issue a change order for the project in the amount of **\$46,122.40**. The estimated total project costs, including the additional costs, are outlined on the attached spreadsheet. The summary of additional costs is:

1. The costs for the disposal of waste material liquids has increased to \$10.80 barrel;
2. INTERA included costs for a hot oil truck;
3. INTERA included costs for mixing semi-solid waste material with sand and disposing of it as solid waste;
4. The amount of time Rhino workers on site will increase by 10 hours;
5. INTERA oversite time, field work time, and project management time has increased.

All costs will be invoiced on a time and materials basis. It should be noted that if heating the waste material with a hot oil truck will allow the waste material to become viscous enough to be pumped from each AST, then the line items outlining the costs to mix the semi-solid waste material with sand and to dispose of the waste material/sand mixture as solid waste can be eliminated.

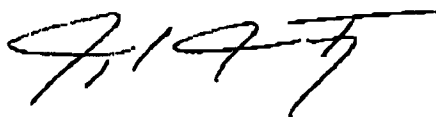
Page 2  
New Mexico Oil Conservation Division  
Ms. Martyne J. Kicling  
June 26, 2003

INTERA assumes the following:

1. All field work related to the tank removal and soil sampling can be completed in a period of 60 hours;
2. All materials (either metal or waste material) are below Naturally Occurring Radioactive Materials (NORM) allowable limits for transportation and disposal. Any material requiring disposal that exceeds NORM allowable limits may result in an increase in costs;
3. At least 60% of the waste material will be sufficiently viscous to be vacuumed from each AST after high-pressure water jetting. The remaining 40% of the waste material will be removed either by high-pressure water jetting and vacuuming, heating with a hot oil truck and then high pressure jetting and vacuuming, or by mechanically opening each ASTs by removing fasteners holding the ASTs together and mixing the waste material with clean sand.
4. All other applicable assumptions as stated in the original Scope of Work (SOW) dated April 30, 2003 are still in effect.

Please call us with any questions or comments regarding this change order. Thank you very much.

Sincerely,  
INTERA Inc.



Joseph Tracy, RG  
Project Manager



Stacy Sabol  
Sector Manager

Enclosure:

- Revised Cost Estimate, Phase I Investigation and Remediation, Araho, Inc., Former Injection Well Disposal Facility, Lea County, New Mexico



State of New Mexico  
Oil Conservation Division  
Phase I Investigation and Remediation  
Arako, Inc.  
Former Injection Well Disposal Facility,  
Lea County, New Mexico  
Revised Cost Estimate

Task 1. Project Coordination and Fieldwork Preparation					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Principal	0001	100.00	hour	4	\$ 400.00
Project Scientist/Engineer/Manager	0003	67.00	hour	4	\$ 268.00
Staff Scientist/Engineer	0004	52.00	hour	4	\$ 208.00
Field Technician II	0005	50.00	hour	8	\$ 400.00
Subtotal Professional Labor					\$ 1,276.00
Task 2. Map Buried Utilities (I-Call) and Perform Naturally Occurring Radioactive Materials (NORM) Survey					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Staff Scientist/Engineer	0004	52.00	hour	2	\$ 104.00
Field Technician II - Mobilization	0001	50.00	hour	16	\$ 800.00
Field Technician II	0005	50.00	hour	8	\$ 400.00
Draftsperson II (Utility Mapping)	0007	50.00	hour	8	\$ 400.00
Subtotal Professional Labor					\$ 1,704.00
Expenses	Contract Line Item	Rate	Unit	# of Units	Total
NORM Survey	"At Cost"	1,300.00	cwh	1	\$ 1,300.00
Subtotal Expenses					\$ 1,300.00
Task 3. Field Investigation: Tank Removal/Cleaning/Disposal and Piping Removal/Disposal and Sampling/Trenching					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Project Scientist/Engineer/Manager	0003	67.00	hour	8	\$ 536.00
Staff Scientist/Engineer	0004	52.00	hour	12	\$ 624.00
Field Technician II - Fieldwork*	0005	50.00	hour	90	\$ 4,500.00
Field Technician II - Foreman	0001	50.00	hour	60	\$ 3,000.00
Field Technician I - Equipment Operator Tractor	0006	35.00	hour	60	\$ 2,100.00
Field Technician I - Equipment Operator Backhoe	0005	25.00	hour	60	\$ 1,500.00
Field Technician I - Laborer	0006	20.00	hour	60	\$ 1,200.00
Field Technician I - Laborer	0006	20.00	hour	60	\$ 1,200.00
Hourly Secretary	0010	30.00	hour	4	\$ 120.00
Subtotal Professional Labor					\$ 14,780.00
Expenses	Contract Line Item	Rate	Unit	# of Units	Total
Disposal of Contaminated Fluids (Product)	0044	10.80	barrel	2,600	\$ 28,080.00
Disposal of Contaminated Fluids (Cleaner Water)	0044	10.80	barrel	1,000	\$ 10,800.00
Vacuum/Flat Truck	"At Cost"	750.00	day	6	\$ 4,500.00
Truck/Heavy Duty	0030	640.00	day	6	\$ 3,840.00
Transportation and Disposal of Materials (Scrap Metals, Paving, Tarco) below NORM allowable limits	"At Cost"	185.00	load	6	\$ 1,170.00
Disposal of Manhole/Manhole	"At Cost"	40.00	ton	12	\$ 480.00
Backhoe Medium Duty	0026	157.00	day	6	\$ 942.00
Flat Bed Truck	"At Cost"	324.00	day	3	\$ 972.00
Delivery of Two 20 Yard Roll-Off Containers	"At Cost"	300.00	each	2	\$ 600.00
Clean Sand	"At Cost"	4.00	yard	250	\$ 1,000.00
Disposal of Solid Waste Material (sand mixed with non-pumpable semi-solid waste material)	0045	6.48	barrel	2260	\$ 14,644.80
Combustible Gas Inert (C-GI) with O <sub>2</sub> , H <sub>2</sub> S, CO <sub>2</sub>	0012	50.00	day	6	\$ 300.00
Fresh Air/Supply Tank/Personal Air Samplers	"At Cost"	300.00	day	6	\$ 1,800.00
Hand-Held GPS Unit	"At Cost"	5.00	day	3	\$ 15.00
Photomicrograph Detector (PID)	0021	10.00	day	6	\$ 60.00
Mileage	0047	0.25	mile	800	\$ 200.00
Fuel/Diesel	0043	65.00	day	8	\$ 520.00
Subtotal Expenses					\$ 71,762.80
Task 4. Preparation of a Final Report					
Professional Services	Contract Line Item	Rate	Unit	# of Units	Total
Principal	0001	100.00	hour	8	\$ 800.00
Project Scientist/Engineer/Manager	0003	67.00	hour	24	\$ 1,608.00
Staff Scientist/Engineer	0004	52.00	hour	40	\$ 2,080.00
Field Technician II	0005	50.00	hour	24	\$ 1,200.00
Draftsperson II (Figures, Cross Sections)	0007	20.00	hour	16	\$ 320.00
Administrator (Technical Editor)	0009	40.00	hour	6	\$ 240.00
Subtotal Professional Labor					\$ 6,228.00

Notes:

NMGR - New Mexico Gross Receipts Tax

\* The labor rate shown for "Field Technician II - Fieldwork" is provided on the assumption that a maximum of 90 hours of INILKA fieldwork and project management time will be required to complete the tank and piping removal and disposal portion of the project (whereas a fieldwork time 60 hours total). This time estimate also includes sample trenching and sample collection, however, sample analytical costs are not included in this cost estimate. All INTERA costs will be invoiced on a time and materials basis; therefore a reduction of time or materials taken to complete the project results in a reduction of the final costs of the project.



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor  
Joanna Prukop  
Cabinet Secretary

September 2, 2003

Lori Wrotenbery  
Director  
Oil Conservation Division

Patrick B. McMahon  
311 North First Street  
Post Office Drawer 1599  
Lovington, NM 88260

**RE: Araho Investigation and Remediation Project  
SE/4 Section, Township 17 South, Range 36 East, NMPM, Lea county NM**

Mr. McMahon:

Enclosed please find the Temporary Grant of Easement and Exhibits A and B for the Araho project on the City of Lovington property. The New Mexico Energy Minerals and Natural Resources Department, Oil Conservation Division and Administrative Services Division Directors have signed Exhibit B. Please review the enclosed documents and if they meet with the City of Lovington's approval please have them sign and notarize the easement. The easement will then need to be registered with the county.

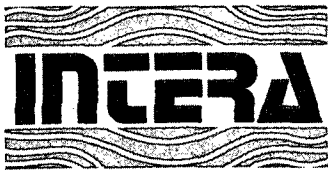
The OCD will require a copy from the County upon registration. A start date for the project will be set upon receipt of a copy of the registration. The OCD will notify Mr. Wise as to the start date as soon as it is known. Please call me if there is anything additional that is required 505-476-3488.

Sincerely,

Martyne J. Kielling  
Environmental Geologist

Attachments: Original Temporary Grant of Easement, Exhibit A and signed Exhibit B

xc: Pat Wise, City Manager, City of Lovington, PO Box 1269, Lovington NM 88260  
File GW-037



**Intera Incorporated**  
One Park Square, Suite 820  
6501 Americas Parkway NE  
Albuquerque, NM 87110  
Telephone: 505 246 1600  
Fax: 505 246 2600

RECEIVED

APR 29 2003  
Environmental Bureau  
Oil Conservation Division

April 29, 2003

Ms. Martyne J. Kieling  
Environmental Geologist  
New Mexico Oil Conservation Division  
1220 South Saint Francis Drive  
Santa Fe, NM 87505

**RE: Transmittal of Proposal:**

- **Phase I Investigation and Remediation, Araho, Inc., Former Injection Well Disposal Facility, Lea County, New Mexico**

Ms. Kieling:

INTERA Inc. (INTERA) appreciates the opportunity to provide you with the enclosed proposal. The proposal has been prepared for the investigation and remediation of the Araho, Inc. former injection well disposal facility located in Lea County, New Mexico. We have based our proposal on the scope of work that you provided. Attached to this letter are two copies of our proposal which include a scope of work describing how INTERA will complete the project, a cost estimate, and a photo log. All costs will be invoiced on a time and materials basis, a reduction in time and/or materials taken to complete the project result in a reduction in the final cost to complete the project.

INTERA will perform the proposed work under the terms of the contract between INTERA and the State of New Mexico General Services Department, Contract No. 30-805-09-18056.

Again, we thank you for the opportunity to bid on this project and hope that you will consider INTERA for future projects where the services of a responsive and quality consulting firm are needed. If you have any questions regarding the attached proposal, please do not hesitate to contact us at (505) 246-1600.

Regards,  
**INTERA Inc.**

Joseph Tracy, PG  
Project Manager

Ms. Stacy Sabol  
Sector Manager

**Enclosures:**

- Scope of Work, Cost Proposal, and Photo Log – Phase I Investigation and Remediation, Araho, Inc., Former Injection Well Disposal Facility, Lea County, New Mexico

Order:

Case No.:

Date: 1974-1993 Injection well facility

Name: Araho, Inc.

Address: (As of May 1998) 8100 N. Alabama, Hobbs, NM 88240

Location: NW/4 of Section 1, T 17 S, R 36 E, NMPM, Lea County, NM

NMPRC name: Araho, Inc.

Mailing address: 8100 N. Alabama, Hobbs, NM 88240

Principal Address: 8100 N. Alabama, Hobbs, NM 88240

Incorporators: Dorothy Runnels, 8100 N. Alabama, Hobbs, NM 88240

Director: Dorothy Runnels, 8100 N. Alabama, Hobbs, NM 88240

Bond: None/ well plugged the surface equipment is remaining.

Surface Owner: City of Lovington, 214 South Love Street, Lovington, NM 88260  
(505) 396-2884



Order:

Case No.:

Date: 1974-1993 Injection well facility

Name: Araho, Inc.

Address: (As of May 1998) 8100 N. Alabama, Hobbs, NM 88240

Location: NW/4 of Section 1, T 17 S, R 36 E, NMPM, Lea County, NM

NMPRC name: Araho, Inc.

Mailing address: 8100 N. Alabama, Hobbs, NM 88240

Principal Address: 8100 N. Alabama, Hobbs, NM 88240

Incorporators: Dorothy Runnels, 8100 N. Alabama, Hobbs, NM 88240

Director: Dorothy Runnels, 8100 N. Alabama, Hobbs, NM 88240

Bond: None

Surface Owner: City of Lovington, 214 South Love Street, Lovington, NM 88260  
(505) 396-2884

**Score:** 20

**Name:** Araho, Inc.

**File:** GW-037

**Location:** 5 miles south of Lovington.  
NW/4 of Section 1, Township 17 South, Range 36 East, NMPM,  
Lea County, New Mexico.

**Status:** Araho, Inc. was an injection well facility from 1974 to 1993. The last owner of record was Dorothy Runnels. The facility received waste from the Navajo Refinery via pipeline when it was operated by Southern Union.

There is no bond on file for Araho, Inc.

**Plan:** The OCD has begun drafting a scope of work to include:  
Remove fluid/sludge from tanks and pit. Dismantle tanks and recycle/dispose of tanks, pipe, drums and pit liner. Excavate and transport 1000 cubic yards of visually known contaminated soil. Collect soil samples for analysis. Excavate, transport and dispose of 6,453 cubic yards of contaminated soil from leaks below the pit, tanks and underground pipes.

**Est. Cost:** \$434,000

**Date:** January 8, 2003

# NMPRC Corporation Information Inquiry

## Public Regulation Commission

1/7/2003

- [Follow this link to start a new search.](#)

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## ARAHO, INC.

SCC Number: 0789362  
Tax & Revenue Number: 01797247007  
Incorporation Date: DECEMBER 12, 1973, in NEW MEXICO  
Corporation Type: IS A DOMESTIC PROFIT  
Corporation Status: IS INACTIVE DUE TO REVOKED & BEYOND APPEAL PERIOD  
Good Standing:  
Purpose: OILFIELD SERVICES

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### CORPORATION DATES

Taxable Year End Date: 12/31/98  
Filing Date: //  
Expiration Date:

### SUPPLEMENTAL POST MARK DATES

Supplemental:  
Name Change:  
Purpose Change:

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### MAILING ADDRESS

8100 N. ALABAMA HOBBS , NEW MEXICO 88240

### PRINCIPAL ADDRESS

8100 N. ALABAMA HOBBS NEW MEXICO 88240

### PRINCIPAL ADDRESS (Outside New Mexico)

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## REGISTERED AGENT

*DOROTHY RUNNELS*

8100 N. ALABAMA HOBBS NEW MEXICO 88240

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## COOP LICENSE INFORMATION

Number:

Type:

Expiration Year:

---

## INCORPORATORS

*RUNNELS, DOROTHY*

*NONE*

*RUNNELS, DOROTHY*

*RUNNELS, DOROTHY*

---

## DIRECTORS

Date Election of Directors: 01/02/97

*RUNNELS, DOROTHY* 8100 W. ALABAMA HOBBS , NM 88240

New Program Initiatives -- non-recurring expenditures.

### SUMMARY

From 1974 to 1993 Araho Inc. operated an oilfield treating plant facility and injection well, located 5 miles south of Lovington, New Mexico, (Section 1, Township 17 south, Range 36 East, NMPM, Lea County). The facility is located above the Ogallala Formation, which is the primary source of drinking water for the city of Lovington. Groundwater is estimated to be approximately 50 feet below ground surface.

The facility contains: (see attached photos)

1. One 150 ft. by 150 ft. lined pit containing approximately 3333 cubic yards of water, sludge and oil that overflows on to the ground surface with each precipitation event;
2. Eight above ground storage tanks containing approximately 1,600 barrels of fluids and sludge;
3. Approximately 1000 feet of buried pipe; and
4. Surface trash including 15 barrels.

During a preliminary investigation in October 2000, four boreholes were drilled through the subsurface to ground water. The investigation revealed that the liner beneath the pit appears to be still intact and groundwater has not been impacted. However, when it rains the pond and an open-top tank overflow onto the ground surface. The New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division is concerned that if the facility is left in its present condition, ground water and the water supply for the city of Lovington could be impacted in the future.

### PERFORMANCE GOALS

This investigation, cleanup, and restoration project would be protective of ground water supplies and therefore would advance the New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division performance goal of Protection of Healthy Ecosystems. "The purpose of the healthy ecosystem program is to protect ecosystems throughout the state by identifying at-risk areas; preventing additional damage; and restoring damaged areas."

### COST

The total cost for this project is estimated to be \$434,000. The cost break down is as follows:

Remove fluid/sludge from tanks and pit. Dismantle tanks and recycle/dispose of tanks, pipe, drums and pit liner. Excavate and transport 1000 cubic yards of visually known contaminated soil. Collect soil samples for analysis. \$196,000.

Excavate, transport and dispose of 6,453 cubic yards of contaminated soil from leaks below the pit, tanks and underground pipes. \$233,000.

Analysis of soil samples \$5,000.



Photo 1: June 26, 2002



Photo 4: June 26, 2002



Photo 2: June 26, 2002



Photo5: August 2000



Photo 3: June 26, 2002



Photo 6: August 2000



Photo 7: August 2000



Photo 10: August 2000



Photo 8: August 2000



Photo 9: August 2000

**PRICE ESTIMATE -**

ARAOH Property - Lovington, NM

**SCOPE OF WORK -**

- 1) Pumping and disposal of sludge/liquid from 8 above ground storage tanks
- 2) Cleaning, dismantling and disposal of tanks (including approx. 1000 ft of piping and 15- 55 gallon drums)
- 3) Pumping and disposal of sludge/liquid from sludge pit (approx. .55 acres)
- 4) Excavation, transportation and disposal of 1000 cu. Yds of contaminated soil
- 5) Collection of 25 soil samples for analysis (to be determined by OCD)
- 6) Report detailing all on-site activities

Vendor No. 5187719  
PA Number: 008050917658

RESPEC Inc.  
Commodity Code: 72002 66074

LN	QTY	RATE	UNIT	COST	DESCRIPTION
*0002	24	\$75.00	Hour	\$1,800.00	Senior Scientist
*0003	40	\$60.00	Hour	\$2,400.00	Project Manager/Certified Scientist
*0004	40	\$50.00	Hour	\$2,000.00	Staff Scientist
*0005	40	\$35.00	Hour	\$1,400.00	Field Technician II
*0006		\$30.00	Hour	\$0.00	Field Technician I
*0010		\$30.00	Hour	\$0.00	Secretary
*0021		\$50.00	Day	\$0.00	PID
*0025	5	\$150.00	Day	\$750.00	Backhoe 1
*0026		\$200.00	Day	\$0.00	Backhoe 2
*0027		\$300.00	Day	\$0.00	Backhoe 3
*0028		\$350.00	Day	\$0.00	Trackhoe 1
*0029		\$500.00	Day	\$0.00	Trackhoe 2
*0031		\$1.50	Foot	\$0.00	2" blank PVC, 10 ft sections
*0033		\$2.80	Foot	\$0.00	2" screen, 10 ft sections
*0035		\$8.29	Each	\$0.00	Filter Pack Sand per 100# sack
*0036		\$46.75	Each	\$0.00	Bentonite pellets per 50# sack
*0037		\$8.50	Each	\$0.00	Bentonite Chips per 50# sack
*0038		\$50.00	Each	\$0.00	8" Manhole (well vault)
*0042	1200	\$0.30	Mile	\$360.00	Personal Vehicle Mileage
*0043	12	\$60.00	Each	\$720.00	Per Diem/Overnight
*0047		\$1.00	Mile	\$0.00	Mobe/Demobe: Drill Rig (Medium duty)
*0048		\$13.00	Foot	\$0.00	Hollow-Stem Auger Drilling Services (S-M)
*0049		\$19.00	Foot	\$0.00	Hollow-Stem Auger Drilling Services (L)
*0050		\$170.00	Hour	\$0.00	Air Rotary Drill Rig
*0051		\$12.00	Foot	\$0.00	Coring
*0052		\$100.00	Day	\$0.00	Water Truck -
*0053		\$50.00	Day	\$0.00	Pick up Truck -
*0054		\$50.00	Day	\$0.00	Steam cleaner
N/A	600	\$68.00	Hour	\$40,800.00	Vacuum Truck
N/A	17000	\$4.00	Barrel	\$68,000.00	Sludge/Liquid Disposal
N/A	1000	\$7.00	Yd	\$7,000.00	Excavation & Loading of Contaminated Soil
N/A	1000	\$9.00	Yd	\$9,000.00	Transportation of Contaminated Soil
N/A	1000	\$16.00	Yd	\$16,000.00	Disposal of Contaminated Soil
N/A	1500	\$4.00	Yd	\$6,000.00	Clean Backfill (including transportation)
				\$29,000.00	Tank and Piping Disposal

**TOTAL**      \$185,230.00 (a) +      0.058125 (NMGRT) : **\$195,996.49**

**NOTE: LABORATORY COSTS ARE NOT INCLUDED**

**Contingency -**

Excavate, transport and dispose of 6,453 cu yds. of contaminated soil (top two feet of two acres) - \$ 232,308.00





Photo 1: Entrance Sign



Photo 4: Pit overflow into unlined bermed area approximately 10x11 feet



Photo 2: One 3000bbl tank 1/3 full and other assorted tanks. Surface soil very spongy and loose no vegetation. Looking North



Photo 5: Lined pit approximately 150x150 feet and 4 feet deep. Looking Southwest



Photo 3: Floor of old office and trash drums. Looking Northwest