

1R - 346

REPORTS

DATE:

2002

Remediation Plan
January 4, 2002

Rhombus Operating Co.
Northwest Eumont Unit
Lea County, New Mexico

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Remediation Plan Summary

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Event Summary

On December 18, 2001, Rhombus Operating Co. experienced a spill from a 2" flow line on their North West Eumont Unit near Monument, New Mexico in southeast Lea County. The site is located in section 22, township 19S, range 36E and unit letter J. On December 19 Allstate Environmental Services, L.L.C. was contacted by Rhombus Operating and requested to clean up the spill site to an emergency response level and provide a remediation plan for restoring the contaminated soil to acceptable levels of benzene, toluene, ethylbenzene and xylene (BTEX)(EPA method 602/8020); total petroleum hydrocarbon (TPH)(EPA method 8015 modified) and chlorides (cl)(Method SW 846-9523) (see appendix I).

Plan of Action

The plan consists of excavating the contaminated soil to a depth that clean soil is in compliance with domestic water well and surface water requirements (appendix V) and placing it into a stockpile adjacent to the excavated area. The soil will then be separated from the rocks through a particlization process. The contaminated stockpiled soil will be hauled to a state approved landfill and replaced by clean soil, assuring that the replacement soil is acceptable, which will include testing for proper chloride levels. The rocks, upon confirmation that leachability of contaminants is negligible (Methods SW 846-1312, 8015M & EPA SW 846-8021B, 5030, SPLP)(see appendix I), will be placed back into the excavated area as backfill. Background levels of chlorides have been tested at 24 mg/L (appendix I). Soil still containing high levels of chlorides remaining in the excavated area will be removed and mixed with clean soil until a level of 274 mg/L is reached. The blended soil will then be used as backfill for the excavated area.

At present approximately 1,280 cubic yards of contaminated soil have been excavated from the effected area and stockpiled on site awaiting plan approval.

Any questions or concerns with this remediation plan may be addressed to Mr. Bobby Blackwood at 505-631-3744 or to the Allstate Environmental Services office at 915-682-3547.

APPENDIX I

ANALYSIS

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt"

ALLSTATE SERVICES ENVIRONMENTAL
ATTN: BOBBY BLACKWOOD
P.O. BOX 11322
MIDLAND, TEXAS 79702
FAX: 682-4182

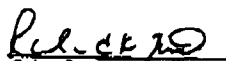
Sample Type: Soil
Sample Condition: Intact/ Iced/ -3.5 deg C
Project Name: Rhombus Northwest Monument
Project #: None Given
Project Location: Monument, NM

Sampling Date: 12/27/01
Receiving Date: 12/27/01
Analysis Date: 12/28/01

ELT#	FIELD CODE	Chloride mg/kg
0102297-01	1-A	1560
0102297-02	1-B	1330
0102297-03	1-C	1700
0102297-04	2-A	22
0102297-05	2-B	33
0102297-06	2-C	2930
0102297-07	3-A	20
0102297-08	3-B	1790
0102297-09	3-C	257
0102297-10	4-A	1030

QUALITY CONTROL	5050
TRUE VALUE	5000
% INSTRUMENT ACCURACY	101
SPIKED AMOUNT	500
ORIGINAL SAMPLE	532
SPIKE	1040
SPIKE DUP	1050
% EXTRACTION ACCURACY	103
BLANK	<5.00
RPD	0.96

Methods: SW 846.0253


Coley D. Keene
Roland K. Tuttle

1-02-02
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ALLSTATE SERVICES ENVIRONMENTAL
ATTN: BOBBY BLACKWOOD
P.O. BOX 11322
MIDLAND, TEXAS 79702
FAX: 682-4182

Sample Type: Soil
Sample Condition: Intact/ Iced/ -3.5 deg C
Project Name: Rhompus Northwest Eumont
Project #: None Given
Project Location: Monument, NM

Sampling Date: 12/27/01
Receiving Date: 12/27/01
Analysis Date: 12/27/01

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg
0102297-01	1-A	<10	<10
0102297-02	1-B	<10	<10
0102297-03	1-C	<10	<10
0102297-04	2-A	<10	<10
0102297-05	2-B	<10	<10
0102297-06	2-C	<10	<10
0102297-07	3-A	<10	21
0102297-08	3-B	<10	<10
0102297-09	3-C	<10	<10

QUALITY CONTROL	463	484
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	93	91
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<10	<10
SPIKE	477	526
SPIKE DUP	459	521
% EXTRACTION ACCURACY	100	110
BLANK	<10	<10
RPD	3.85	0.96

Methods: SW 846-8015M


Caley D. Keene
Raland K. Tuttle

01-02-02
Date

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ATTN: BOBBY BLACKWOOD
P.O. BOX 11322
MIDLAND, TEXAS 79702
FAX: 682-4182

Sample Type: Soil
Sample Condition: Intact/ Iced/ -3.5 deg C
Project Name: Rhombus Northwest Eumont
Project #: None Given
Project Location: Monument, NM

Sampling Date: 12/27/01
Receiving Date: 12/27/01
Analysis Date: 12/31/01

CLT#	FIELD CODE	SPLP GRO C6-C10 mg/L	SPLP DRO >C10-C28 mg/L
0102297-10	4A	<3	<3

QUALITY CONTROL	426	436
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	85	87
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<3	<3
SPIKE	434	571
SPIKE DUP	435	573
% EXTRACTION ACCURACY	91	120
BLANK	<3	<3
RPD	0.23	0.35

Methods: SW 846-1312, 8015M


Coley D. Keene
Roland K. Tuttle

01-02-02
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P.O. BOX 11322
MIDLAND, TEXAS 79702
FAX: 682-4182

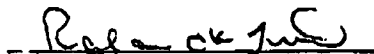
Sample Type: Soil
Sample Condition: Intact/ Iced/ -3.5 deg C
Project Name: Rhombus Northwest Eumont
Project #: None Given
Project Location: Monument, NM

Sampling Date: 12/27/01
Receiving Date: 12/27/01
Analysis Date: 12/31/01

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
0102297-01	1-A	<0.025	0.034	<0.025	<0.025	<0.025
0102297-02	1-B	<0.025	0.025	<0.025	<0.025	<0.025
0102297-03	1-C	<0.025	0.026	<0.025	<0.025	<0.025
0102297-04	2-A	<0.025	0.027	<0.025	<0.025	<0.025
0102297-05	2-B	<0.025	0.028	<0.025	<0.025	<0.025
0102297-06	2-C	<0.025	<0.025	<0.025	<0.025	<0.025
0102297-07	3-A	<0.025	0.033	<0.025	<0.025	<0.025
0102297-08	3-B	<0.025	0.031	<0.025	<0.025	<0.025
0102297-09	3-C	<0.025	0.028	<0.025	<0.025	<0.025

QUALITY CONTROL	0.112	0.112	0.114	0.231	0.112
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% IA	112	112	114	115	112
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.025	0.050	0.038	0.099	<0.025
SPIKE	0.109	0.110	0.115	0.232	0.113
SPIKE DUP	0.110	0.115	0.121	0.246	0.117
%EA	109	108	114	114	113
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025
RPD	0.00	0.00	5.13	5.96	3.48

METHODS: EPA SW 846-8021B, 5030


Coley D. Keene
Randall K. Tuttle

01-02-02
Date

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ATTN: BOBBY BLACKWOOD
P.O. BOX 11322
MIDLAND, TEXAS 79702
FAX: 682-4182

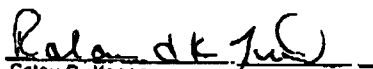
Sample Type: Soil
Sample Condition: Intact/ Iced/ -3.5 deg C
Project Name: Rhombus Northwest Monument
Project #: None Given
Project Location: Monument, NM

Sampling Date: 12/27/01
Receiving Date: 12/27/01
Analysis Date: 12/31/01

ELT#	FIELD CODE	SPLP BENZENE mg/L	SPLP TOLUENE mg/L	SPLP ETHYLBENZENE mg/L	SPLP m,p-XYLENE mg/L	SPLP o-XYLENE mg/L
0102297-10	4-A	<0.001	<0.001	<0.001	<0.001	<0.001

QUALITY CONTROL	0.111	0.111	0.112	0.229	0.109
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% IA	111	111	112	114	109
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.001	<0.001	<0.001	<0.001	<0.001
SPIKE	0.107	0.108	0.107	0.217	0.111
SPIKE DUP	0.107	0.108	0.106	0.216	0.111
%EA	107	108	106	108	111
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001
RPD	0.00	0.00	0.94	0.46	0.00

METHODS: EPA SW 846-1312, 80216, 5030


Caley D. Keene
Rand K. Tuttle

01-02-02
Date

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Phone #: 915/682-3546

FAX# 915/682-4182

Bobby Blackwood (505-631-3744) FAX# (915) 682-4182

ALLSTATE SERVICES ENVIRONMENTAL, MIDLAND, TEXAS

Project Name:

Rhombus Northwest Euromat

Scooper Structures

Bobby R. Blackburn

[illegible]

2-A	✓	✓	✓	✓	12:27	12:10	✓	✓
2-B	✓	✓	✓	✓	✓	12:00	✓	✓
2-C	✓	✓	✓	✓	✓	12:05	✓	✓
2-A	✓	✓	✓	✓	✓	12:45	✓	✓
2-B	✓	✓	✓	✓	✓	12:20	✓	✓
2-C	✓	✓	✓	✓	✓	12:05	✓	✓
3-A	✓	✓	✓	✓	✓	12:30	✓	✓
3-B	✓	✓	✓	✓	✓	12:35	✓	✓
3-C	✓	✓	✓	✓	✓	12:40	✓	✓
4-A	✓	✓	✓	✓	✓	12:45	✓	✓

REMARKS
E: 11 4/15 to H

Requisitioned by:	Date:	Time:	Received by:
Billy R. McDonald	11-27-01	12:55	C. J. Kelly

Received by:	4:35pm	Date:	12-27-01	Account no. or ID:	Ed Kelly
--------------	--------	-------	----------	--------------------	----------

Relinquished by:	Date:	Trace:	Received by Laboratory:
J			

Rec -3,5'C

copy

0 West 1-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Phone #: 915/682-3546

Robert Blackwood (505-631-3744) FAX# 915/682-4182

ALLSTATE SERVICES ENVIRONMENTAL, MIDLAND, TEXAS

Project Name:

Chenobys North West Furmint

Sample 9: Gastritis

Doyle R. Blackwood

[illegible]

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ALLSTATE SERVICES ENVIRONMENTAL
ATTN: BOBBY BLACKWOOD
P.O. BOX 11322
MIDLAND, TEXAS 79702
FAX: 682-4182

Sample Type: Soil
Sample Condition: Intact/ Iced/ 4.0 deg C
Project Name: Rhombus Northwest Eumont
Project #: None Given
Project Location: Monument, NM

Sampling Date: 01/04/02
Receiving Date: 01/04/02
Analysis Date: 01/07/02

ELI #	FIELD CODE	Chloride mg/kg
0202341-0:	Background	24.2

QUALITY CONTROL	5140
TRUE VALUE	5000
% INSTRUMENT ACCURACY	103
SPIKED AMOUNT	454
ORIGINAL SAMPLE	24.2
SPIKE	491
SPIKE DUP	491
% EXTRACTION ACCURACY	103
BLANK	<5.00
RPD	0.00

Methods: SW 846-9253


Cately D. Keene
Randall K. Tuttle


Date

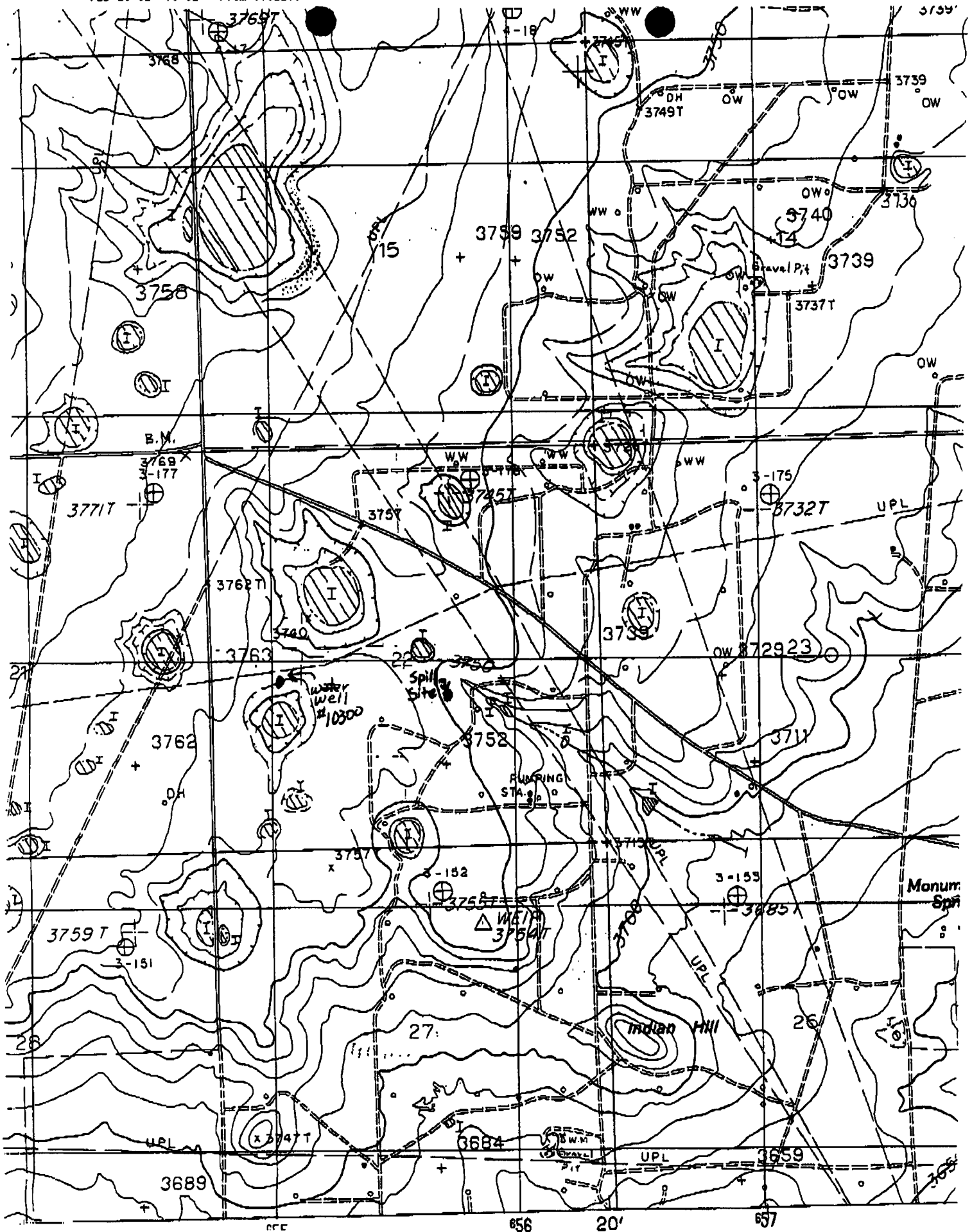
APPENDIX II
DAILY REPORTS

APPENDIX III

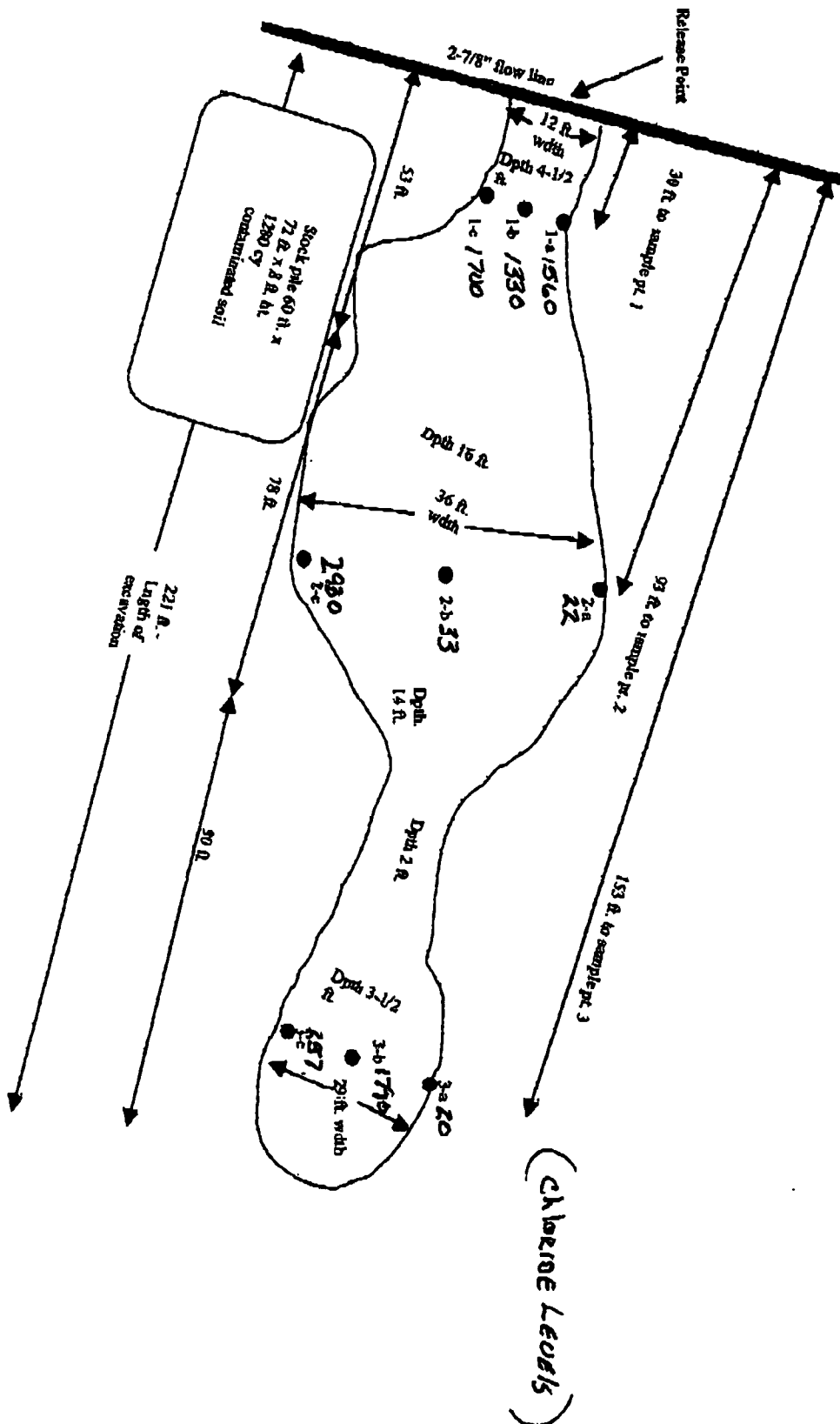
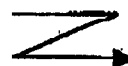
Photos

APPENDIX IV

Maps/Drawings



Rhombus NW Eumont Unit Drawing



Appendix V

Water Well Information

New Mexico Office of the State Engineer

Page 1 of 1

New Mexico Office of the State Engineer
Well Reports and DownloadsTownship: Range: Sections: NAD27 X: Y: Zone: Search Radius: County: Basin: Number: Suffix: Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic ☒ All

WELL / SURFACE DATA REPORT 01/02/2002

(acre ft per annum)
 Use Diversion Owner
 1 04719 IND 1502 DLD CORPORATION
 1 04745 EXP 3 CLIMAX CHEMICAL COMPANY
 1 10300 STK 3 COOPER BETTY P

Record Count: 5

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are biggest to smallest)
 Well Number Source Twp Rng Sec q q q
 1 04719 X 19S 36E 22 2 2
 1 04719 X2 19S 36E 22 1 2
 1 04719 X3 19S 36E 22 2 1
 1 04745 EXPL Shallow 19S 36E 22
 1 10300 Shallow 19S 36E 22 3 1 2

New Mexico Office of the State Engineer

Page 1 of 1

New Mexico Office of the State Engineer
Water Right Summary

DB File Mbr: L 10300

Primary Purpose: STK 72-12-1 LIVESTOCK WATERING

Primary Status: PMT Permit

Total Acres:

Total Diversion: 3

Owner: COOPER BETTY P

Documents on File

Doc	File/Act	Status	1	2	3	Trans_Desc	From/To	Acres	Diversion	Consumptive
72121	12/09/1992	PMT ABR CNV	CONVERSION	L	103	T			3	

Point of Diversion

POD Number	(qtr are least 2=SE 3=SW 4=NE)	(qtr are biggest to smallest)	X	Y	are in Feet	Y	UTM are in Meters)	UTM Zone	Easting	Northing
L 10300	Shallow	19S 36E 22	3	1	2			13	655044	3612933

New Mexico Office of the State Engineer

Page 1 of 1

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1-SW 2-NW 3-SW 4-SE)
 (quarters are biggest to smallest)

POD Number	Type	Acres	Q	Q	Q	Q	Zone	X	Y
L 10300	19S	36E	22	3	1	2			

Driller Licence: 1044 BADES, ALAN G.

Driller Name: ALAN BADES

Source: Shallow

Drill Start Date: 12/10/1992

Drill Finish Date: 12/22/1992

Log File Date: 02/19/1993

PCW Received Date:

Pump Type:

Pipe Discharge Size:

Casing Size:

Estimated Yield:

Depth Well: 105

Depth Water: 68

NSA P 0135874537

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised March 17, 1999

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☐ Final Report

Name of Company: Rhombus Operating Co., Ltd.	Contact Mabry Kniffen-Wingo
Address: PO Box 8316, Midland, TX 79708	Telephone No. 915-683-8873
Facility Name: Northwest Eumont Unit #127	Facility Type Producing Well
Surface Owner: Jimmie Cooper	Mineral Owner: State of New Mexico
Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	22	19S	36E	1870	SOUTH	1650	EAST	LEA

NATURE OF RELEASE

Type of Release: Oil and Produced Water	Volume of Release: 50 Bbbls	Volume Recovered 40 Bbbls
Source of Release: Flowline	Date /Hour of Occurrence: Unknown	Date and Hour of Discovery 12/19/01 10:30 AM
Was Immediate Notice Given? XX Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson and Buddy Hill	
By Whom? Don Harmon	Date and Hour 12/19/01	
Was a Watercourse Reached? ☐ Yes XX No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Flowline leak was called in to Don Harmon and was told that well had been shut down and shut-in. Put 3" X 12" pipe line clamp on flowline, called for vacuum truck and picked up 40 bbls standing fluid. Called Greg Cielinski to report spill and made call to Allstate Environmental Services to clean up spill ASAP.

Describe Area Affected and Cleanup Action Taken.*

20' at widest point by 200' long. Allstate Environmental Services is out at the location today 12/20/01 cleaning up affected area.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Mabry Kniffen-Wingo	OIL CONSERVATION DIVISION	
Printed Name: MABRY KNIFFEN-WINGO	Approved by District Supervisor:	
Title: Office Manager	Approval Date:	Expiration Date:
Date: 12-20-01 Phone: (915) 683-8873	Conditions of Approval:	Attached ☐

Attach Additional Sheets If Necessary