NM1 - 21

GENERAL CORRESPONDENCE

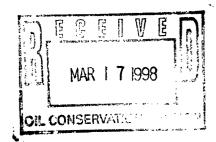
YEAR(S): 1993-1997



300 Broadway NE • Albuquerque, New Mexico 87102 (505) 242-6464 • Fax (505) 247-4941 5 County Road 6065 • Farmington, New Mexico 87401 (505)598-9626 • Fax (505) 598-9627 RECEIVED

NOV 1 6 1997

Environmental Bureau
Oil Conservation Division



March 14, 1998

Ms. Martyne J. Kieling
New Mexico Energy, Minerals, and Natural Resources Department
OIL CONSERVATION DIVISION - ENVIRONMENTAL BUREAU
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Ph: (505) 827-7153
Fx: (505) 827-8177

Re: Additional Information

Commercial Landfarm Application

Dear Ms. Kieling:

In reference to your letter dated February 25, 1998, Rhino Environmental Services, Inc. (Rhino) would like to submit, for your review, the attached additional information.

Rhino hopes this serves to complete all application requirements. We appreciate your time and consideration. Please don't hesitate to call me if you have any questions or require additional information.

Sincerely,

Daniele Berärdelli Landfarm Manager

Attachments

CC:

Mr. Wayne Price OCD District - I Hobbs, New Mexico



RHINO ENVIRONMENTAL SERVICES, INC.

ATTACHMENT I: Additional Information

Section 5

A. Principal Officers

Steve Dyer President 300 Broadway, NE Albuquerque, NM 87102 Linsey Dyer Vice-President, Treasurer, Secretary 300 Broadway, NE Albuquerque, NM 87102

Section 6

A. Buffer Zone

Rhino will not place contaminated soils within one hundred feet of the boundary of the facility.

B. Pipeline Buffer Zone

Rhino will not place contaminated soils within twenty feet of any pipelines crossing the landfarm. Additionally, no equipment shall be operated within ten feet of the pipeline. All pipelines shall have surface markers identifying their locations. No contaminated soil will be placed within twenty feet of any well pad within the landfarm. Figure 1 demonstrates the location of the pipeline located within the proposed landfarm boundary.

Section 7

A. Facility Berming

Rhino shall construct and maintain a berm surrounding contaminated soils that is capable of containing precipitation from a one-hundred year flood. Berms shall be constructed to a height of approximately six feet and have a base width of approximately twelve feet. A diagram is attached as Figure 2.

Section 9

A. Treatment Zone Monitoring

- 1) Rhino shall perform the following procedures to monitor a treatment zone not to exceed three feet below the landfarm:
 - a. One background soil sample shall be taken from the center portion of the landfarm two feet below the native soil surface prior to operation. The sample will be analyzed for total petroleum hydrocarbons (TPH), major cations/anions, volatile aromatic organics (BTEX) and heavy metals using approved EPA methods.
 - b. A treatment zone not to exceed three feet below the native soil surface shall be monitored. A minimum of one random soil sample shall be collected from each cell, no cell being larger than five acres, six months after the first contaminated soils are received into the cell and then quarterly thereafter. The sample will be collected two to three feet below the native soil surface.
 - c. Treatment zone samples shall be analyzed using approved EPA methods for TPH and BTEX quarterly, and for major cations/anions and heavy metals annually.
 - d. Sample collection holes shall be filled with an impermeable material such as cement.
 - e. Analytical results shall be submitted to the OCD Santa Fe office for review every February 28, May 31, August 31 and November 30 of each year.



RHINO ENVIRONMENTAL SERVICES, INC.

Additional Information, page 2

Section 10

A. Closure Cost Estimate

Attached as Appendix A is Rhino's closure cost estimate. After accounting for boundary and pipeline buffer zones, this estimate is based on 41 acres of usable treatment cell area. The detailed cost estimate and map are provided as Appendix A.

The well located in Section 14, T20S, R38E approximately 2000 feet south of the proposed facility was drilled

Section 11

D.

- A. The correct USGS Topographic maps for Range 38 East are attached as Appendix B.
- in 1954. Mr. Creighton Webb, of the NM State Engineer Office, stated that, due to the age of the well record, the information concerning water level was probably inaccurate. He added that the current water level was likely to be much deeper now than in 1954.

 Attached as Appendix C, Rhino has submitted the quarterly reports for DP-619 as required by the Ground Water Section of the New Mexico Environment Department. No water has ever been present in monitor wells numbered 4 and 5. Samples have been collected from monitor well 3 every six months in accordance with the permit. Also included is a summary sheet of our current permit and a map demonstrating well locations. Rhino cannot include the State Engineer Office Well Records because none were filed with the state. Rhino contacted Eades Drilling. They informed us that records were never filed because the State of New Mexico does not require the reporting of monitor wells. The only information on file are those records maintained by Eades Drilling and Rhino. The information concerning screened completion intervals submitted on February 9, 1998 was found to be incorrect. As can be seen in the diagrams attached, the 10' 2" screens

were placed at or just above red bed. This information and a map demonstrating each well's location are

Section 12

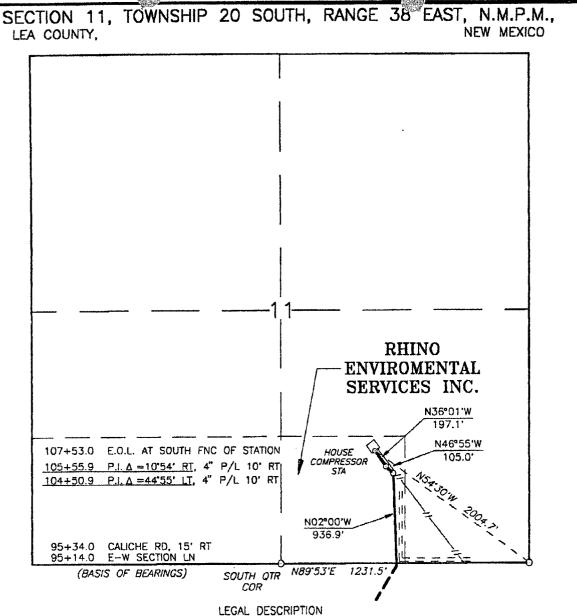
attached as Appendix D.

A. Rhino has notified Jenex Operating at their new address. This was accomplished March 3, 1998, however, no receipt has yet been returned. Additionally, the receipt from the Bruce Morris Holding Company still has not been received. The US Postal Service was contacted on March 2, 1998. They are currently attempting to track down the letter and determine its whereabouts. To date, no new information has been obtained. Copies of the receipt for Jenex Operating and of the fax to the US Postal Service are enclosed as Appendix E.



FIGURE 1 - PIPELINE

XHIBIT A PAGE Z OF

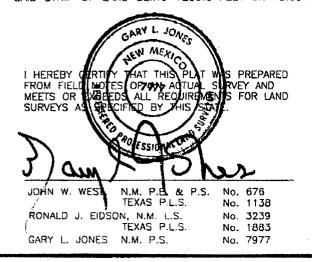


A STRIP OF LAND 30.0 FEET WIDE BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY AND LOCATED IN SECTION 11, TOWNSHIP 20 SOUTH, RANGE 38 EAST, NMPM, LEA COUNTY, NEW MEXICO.

BEGINNING AT A POINT ON THE SOUTH LINE OF SAID SECTION. WHICH LIES N89°53'E, 1231.5 FEET FROM THE SOUTH QUARTER CORNER OF SAID SECTION 11;

THENCE NO2°00'W, 936.9 FEET; THENCE N46°55'W, 105.0 FEET; THENCE N36°01'W, 197.1 FEET TO A POINT, BEING THE END OF SURVEY, WHICH LIES N54°30'W, 2004.7 FEET FROM THE SOUTHEAST CORNER OF SAID SECTION 11.

SAID STRIP OF LAND BEING 1239.0 FEET OR 75.09 RODS IN LENGTH AND CONTAINING 0.85 ACRES, MORE OR LESS.



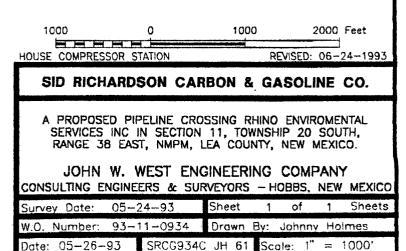




FIGURE 2 - BERM DIAGRAM

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APPENDIX A - COST ESTIMATE AND FACILITY MAP



P.O. Box 1816 Hobbs, New Mexico 88241 Phone (505) 392-5021 Fax (505) 397-2597

March 10, 1998

Rhino Environmental Services, Inc. P.O. Box 25547 Albuquerque, New Mexico 87125

Attn: Danielle Berardelli

Re: Cost estimate to close Rhino Landfarm located in Hobbs, New Mexico

Dear Ms Berardelli

Western Environmental Consultants (WEC) would like to take this time to thank you and Rhino Environmental for the opportunity to be of service on the closure of the landfarm located in Hobbs, NM. Please find below a brief outline and cost estimate to close the facility in accordance with the NMOCD.

Scope of work

WEC will close the site over a two year period, (18 months to remediate the soils and 6 months to return the site back to it's original state). Closure of the site will be done by disking the soils until closure levels have been met for the NMOCD.

Lab Analysis for 9 Cells

TPH @ 50.00/ea x 8 quarters x 9 cells	3,600.00
BTEX @ 40.00/ea x 8 quarters x 9 cells	2,880.00
Metals @ 200.00/ea x 2 years x 9 cells	<u>3,600.00</u>
Estimated total cost for analysis	10,080.00

Quarterly Sampling Time and Labor for 9 Cells

Labor @ 55.00 est. 8.5 hr to sample to include travel time and paperwork	
467.00 per sampling event x 8 quarters	3,736.00

Disking for Two Years Every Two Weeks for 45 Acres

Tractor and operator @ 30.00/hr	x 10 acres per/hr or 5 hr per event	2
52 weeks x 150.00 per event		7,800.00

Water for Bioremediation

120.00/load x 9 loads x 12 events in two years	12,960.00
--	-----------

Level Landfarm Back to Grade

D-6 Dozer W/ Operator @ 85.00/hr x 30 hr	2,550.00

Revegetation for 60 Acres

Tractor and seed drill @ 30.00/hr x 10 hr	300.00
Seed @ 10.00/lb for 5 lb/acre x 60 acres	3,000.00
Est. Total to Reseed site	3,300.00 .

TOTAL ESTIMATED COST \$ 40,426.00

If you have any questions or need more data in regards to this matter please call at any time 505-392-5021

Sincerely

Allen Hodge, REM VP Operations

Western Environmental Consultants



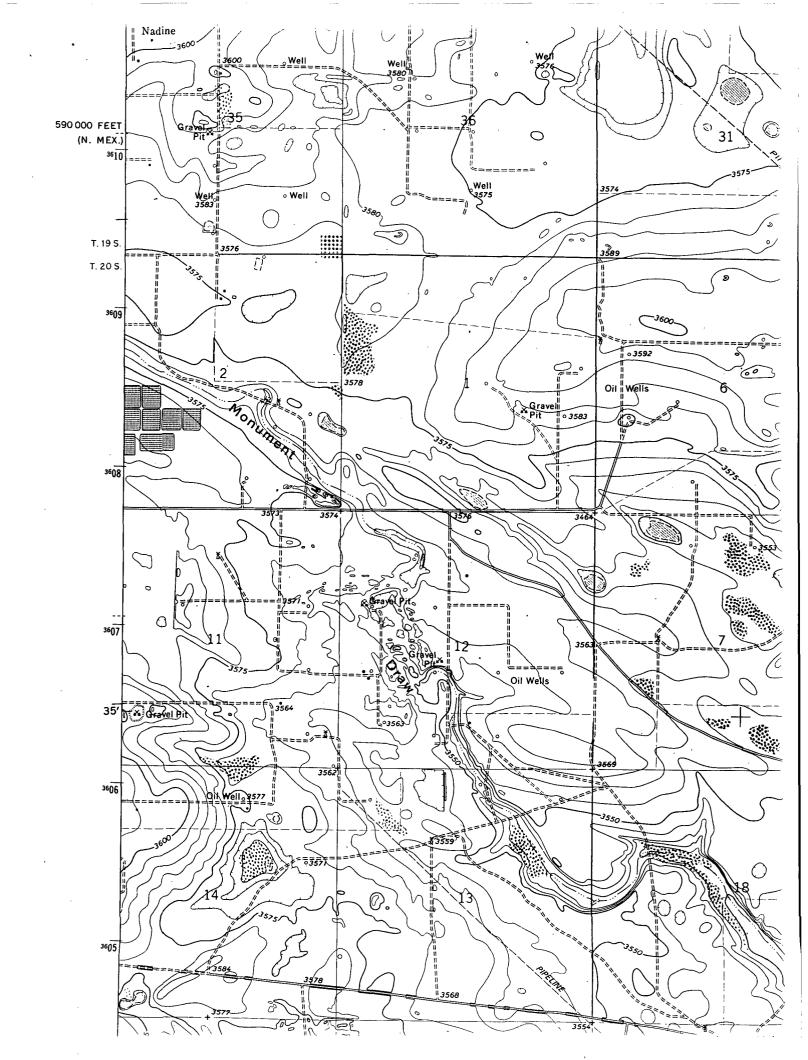
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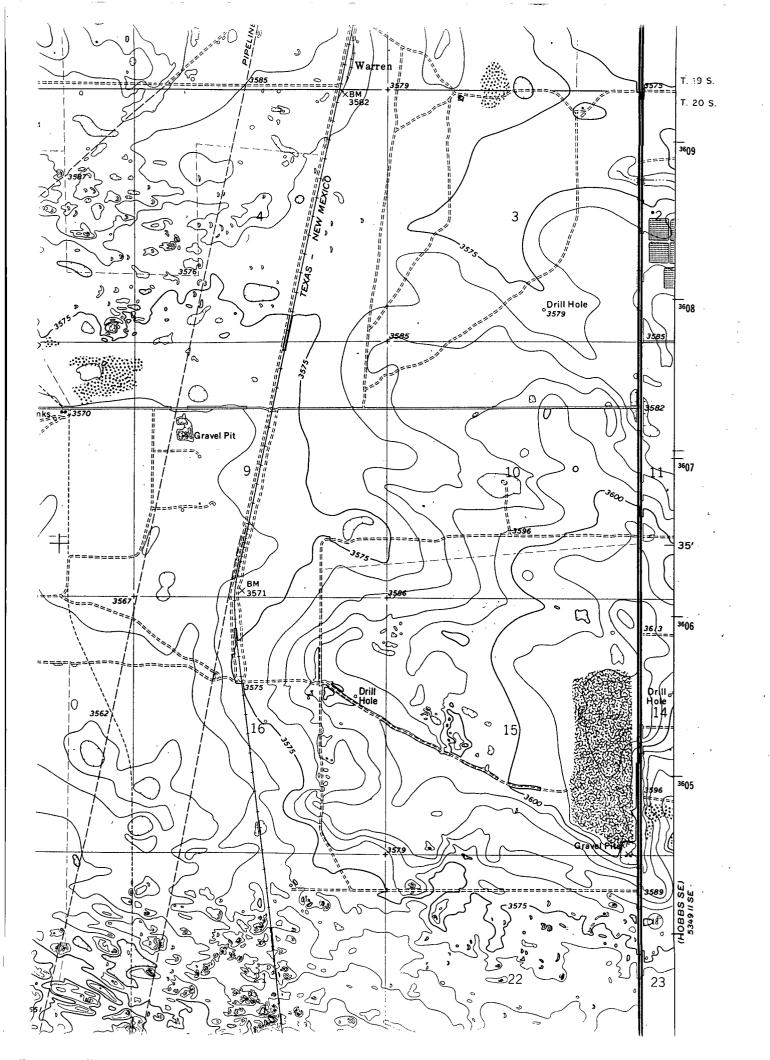
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APPENDIX B - USGS TOPOGRAPHIC MAPS





APPENDIX C - QUARTERLY REPORTS 1996 TO 1998

NMED, GROUND WATER SECTION, DISCHARGE PLAN SUMMARY

Discharge Plan Number.... 619

Date Report Generated.... 19-MAY-97

Staff Reviewer..... PHYLLIS BUSTAMANTE

Legally Responsible Party. STEVE DYER PRESIDENT 242-6464

Owner..... STEVE DYER

300 BROADWAY NE

ALBUQUERQUE NM 87102

Facility..... RHINO ENVIRONMENTAL SERVICES - NADINE

Primary Waste Type..... INDUSTRIAL UST

Treatment..... HYDROCARBON REMEDIATION OTHER

Discharge..... LAND APPLICATION DISPOSAL

Discharge Location..... 8 MILES SOUTH OF HOBBS

Application Received..... 29-MAR-95 Discharge Volume.. 1200 gpd Public Notice Published... 10-MAY-95 Depth to GW..... 200 feet Discharge Plan Approved... 17-JUL-95 TDS..... 1000 mg/l

Discharge Plan Expires.... 17-JUL-00

Monitoring Reports due.... 28-FEB 31-MAY 31-AUG 30-NOV ✓

	Annual Frequency		Sampling <u>Description</u>
1	2	3	EAST SIDE & 2 NEW WELLS, SAMPLE IF WATER
2	4	2	PRESENT. Analyze by EPA method 8020. RECORDS OF AMOUNT OF SOIL AND WATER TAKEN TO SITE
6	4		Native soil samples from below treatment area. One sample from 3ft depth per 5
			acres. Samples analyzed by EPA method 418.1.
6			Field Analysis - (PID-gasoline contaminated soils, and infrared for diesel and waste oil
			contaminated soils) for 2 consecutive quarters for samples taken 4 per acre to
			determine if soil concentrations are homogenous and remediated
6			Laboratory Confirmation Sampling - 1 sample per acre prior to removal of soil, or
			closure

If this space is checked, monitoring requirements are summarized Any inadvertent or explained in more detail on the attached sheet. omission from this summary does not relieve the discharger responsiblility for compliance with that requirement.

Send All monitoring reports or correspondence to:

Current Reviewer: Vicky Maranville (505) 827-0652

PHYLLIS BUSTAMANTE Ground Water Pollution Prevention Section Environment Department

5 County Road 6065 • Farmington, New Mexico 87401 (505)598-9626 • Fax (505) 598-9627

February 24, 1998

Ms. Vicky Maranville Ground Water Section New Mexico Environment Department 1190 St. Francis Drive, PO Box 26110 Santa Fe, NM 87502

Ph: (505) 827-0652 Fx: (505) 827-2965

Re: * Landfarm Facility DP-619:

Quarterly Report - February 1998

Dear Ms. Maranville:

In accordance with the conditions set forth in the Approved Discharge Plan, DP-619, enclosed please find the February 1998 quarterly report for Rhino's facility eight (8) mile south of Hobbs, Lea County, New Mexico. This report serves to maintain a written record of the amount of contaminated soil and wastewater accepted for treatment and to ensure that no contaminant migration has occurred.

Table one (1) includes all soil and water accepted from November 1, 1997 to January 31, 1998. One native soil sample was retrieved from each treatment area three (3) feet below the natural soil surface and submitted to Anachem, Inc. for analysis. Figure No. 1 is a site map showing the location of sample collection. One sample was submitted for each active cell. The analytical results are summarized in Table two (2). A copy of the analytical report is submitted as Appendix A.

Please don't hesitate to call if you have any questions or require additional information.

Sincerely,

Daniele Berardelli

Rhino Environmental Services, Inc.

Attachments

TABLE 1 - SOIL AND WATER LOG

DISCHARGE PLAN DP-619 QUARTERLY REPORT February 1998

Soil accepted from November 1, 1997 to January 31, 1998

A total of 244.55 cubic yards (cy)of soil and 1,320 gallons (gal) were received during this quarter. A list of these soils are shown in the table below. All soils were disced on a regular basis.

TABLE NO. 1

DATE	VOLUME	SOURCE	TYPE	SECTION
11-03-97	3.0 cy	Southwest Convenience Stores 800 South Gregg Big Spring, TX	Gasoline	Cell 5
11-03-97	2.0 cy	Southwest Convenience Stores 721 CRW Odessa, TX	Gasoline	Cell 5
11-13-97	6.88 cy	Budget Rent-A-Car Albuquerque Sunport Albuquerque, NM	Waste Oil	Cell 3
11-20-97	1.0 cy	Southwest Convenience Stores 7-Eleven # 57631 9061 Dyer El Paso, TX	Gasoline	Cell 5
11-20-97	1.5 cy	Tumbleweed Petroleum Bulk Storage Facility #1 2323 Toliver Pecos, TX	Gasoline	Cell 5
11-20-97	1.0 cy	Tumbleweed Petroleum 402 W. Third Pecos, TX	Gasoline	Cell 5
11-20-97	0.5 cy	Tumbleweed Petroleum 414 W. Third Pecos, TX	Gasoline	Cell 5
11-24-97	5.0 cy	McClain Oil #2 301 Avenue H Lubbock, TX	Gasoline	Cell 5
11-24-97	1.0 cy	Phil Hur Motors 620 19 th Street Lubbock, TX	Gasoline	Cell 5
11-24-97	6.0 cy	McClain Oil #19 1702 N. University Lubbock, TX	Gasoline	Cell 5

TABLE No. 1 CONTINUED								
DATE	VOLUME	SOURCE	TYPE	SECTION				
11-24-97	2.0 cy	Horkey Bulk Plant 406 Erskine Road Lubbock, TX	Gasoline	Cell 5				
11-24-97	5.0 cy	G&C Contracting 501 N. College Levelland, TX	Gasoline	Cell 5				
11-25-97	25 cy	Former GTE Pole Yard 606 S. Main St. Carlsbad, NM	Waste Oil	Cell 1				
12-01-97	2.0 cy	National Truck Stop (SWCS) 2400 South Loop Midland, TX	Gasoline	Cell 5				
12-01-97	2.0 cy	7-Eleven # 57175 (SWCS) 3700 Andrews Hwy. Odessa, TX	Gasoline	Cell 5				
12-12-97	160 cy	US Small Business Admin. Chaparral Cattle Company 5300 Seven Rivers Hwy. Lakewood, NM	Waste Oil	Cell 1				
12-15-97	1.5 cy	7-Eleven #57110 (SWCS) 1523 North Harless Odessa, TX	Gasoline	Cell 5				
12-15-97	2.5 cy	Former SWCS # 57504 800 South Gregg Street Big Spring, TX	Gasoline	Cell 5				
01-08-98	3.33 cy	Farmer's Co-Op. Highway 846 Knott, Texas	Gasoline	Cell 5				
01-08-98	1.67 cy	Big Springs Fuel 1106 North La Mesa Hwy. Big Springs, TX	Gasoline	Cell 5				
01-08-98	5.67 cy	Blocker Oil N. Front Stand St. & St. Benedict St. Stanton, TX	Gasoline	Cell 5				
01-12-98	1,320 gal	Rogelio's Convenience Store 9951 Alameda Socorro, TX	Gasoline	AST				
01-24-98	6.0 cy	Noel Edwards 3801 34 th Street Lubbock, TX	Gasoline	Cell 5				

;

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS

Quarterly Native Soil Sampling:

One native soil sample was retrieved from the treatment area 3 feet below the natural soil surface. Figure No. 1 is a Site Map showing the location of the sample. Samples were submitted for analysis by EPA method 418.1 (TPH) and EPA method 8020 (benzene-BTEX). The analytical results are summarized in Table No. 1.

Table No. 2 Summary of Analytical Results from Native Soil Sampling					
Sample ID	Benzene mg/kg	TPH mg/kg			
Cell 1		< 10			
Cell 2A	< 0.40	< 10			
Cell 2B		< 10			
Cell 3		< 10			
Cell 4	< 0.40	< 10			
Cell 5	< 0.40	< 10			
Cell 6		< 10			
Cell 7		< 10			
MW	<5.0 ug/l				

Copies of the analytical reports are shown in Appendix A. The analytical results for all samples collected report levels to be below detection, thereby demonstrating no contaminant migration has occurred.

APPENDIX A - ANALYTICAL RESULTS



Customer Name:

Rhino Env. - Farmington

Date Received:

February 6, 1998 at 10:00:00

Date Reported:

February 12, 1998

Submission #:

9802000055

Project:

6190298

SAMPLES The submission consisted of 12 samples with sample

I.D.'s shown in the attached data tables.

TESTS

The samples listed in the attached result pages were analyzed for:

* BTEX (EPA 8020)

* METHANOL SAMPLE CONTAINER PREP, NEW MEXICO

* TPH (EPA 418.1)

* TS-TOTAL SOLIDS (EPA 160.3)

<u>Distribution Of Reports</u> 1-Ms. Daniele Berardelli of Rhino Env. - Farmington Ph. 505-598-9626 Fax 505-598-9627

Submission #: 9802000055 lims

Respectfully Submitted, Anachem Inc.

Howard H. Hayden, B.S.

Chemist

C.E. Newton, Ph.D.

Chemist

Submitted material will be retained for 60 days unless notified or consumed in analysis. Material determined to be hazardous will be returned or a \$20 disposal fee will be assessed. Our letters and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our prior written approval. Our letters and reports apply to the sample tested and/or inspected, and are not necessarily indicative of the qualitites of apparently identical or similar materials. 98623 to 98634 Page

Client Name: Rhino Env. - Farmington

Submission #: 9802000055 Project Name: 6190298 Report Date: 02/12/98

Client Sample #: 61901

Laboratory ID #: Sample Container: 98623 Order Type: Normal Matrix: Soil 40z EPA Approved Glass Jar\Aqua Lid LEA COUNTY, NM

02/04/98

Sampling Location: Sampling Date: Temperature (Celcius):4

TPH (EPA 418.1)

TPH Prep Date: 02/09/98

Results(mg/kg) Detection Limit <u>Analyte</u> Total Petroleum Hydrocarbons <10 10

Client Sample #: 61902A-A Laboratory ID #:

Sample Container:

98624 Order Type: Normal Matrix: Soil 40z EPA Approved Glass Jar\Aqua Lid

LEA COUNTY, NM 02/04/98

Sampling Location: Sampling Date:

Temperature (Celcius):4

TPH (EPA 418.1) TPH Prep Date: 02/09/98 Results(mg/kg) Detection Limit Total Petroleum Hydrocarbons 10 <10

TS-TOTAL SOLIDS (EPA 160.3)

Analyte Results(%) Detection Limit Total Solids 93.6 1

Chient Sample #: 61902A-B

Order Type: Normal Matrix: Soil 98625 Laboratory ID #:

Sample Container:

Methanol Jar LEA COUNTY, NM

Sampling Location: Sampling Date:

02/04/98

Temperature (Celcius):4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

Client Sample #: 61902B

98626 Order Type: Normal Matrix: Soil 40z EPA Approved Glass Jar\Aqua Lid LEA COUNTY, NM Laboratory ID #: Sample Container: Sampling Location: Sampling Date: 02/04/98

Temperature (Celcius):4

TPH (EPA 418.1)

TPH Prep Date: 02/09/98 Results(mg/kg) Detection Limit <u>Analyte</u> Total Petroleum Hydrocarbons <10 10

Client Name: Rhino Env. - Farmington Submission #: 9802000055

Project Name: 6190298 **Report Date: 02/12/98**

Client Sample #: 61903

Laboratory ID #: Sample Container: 98627 Order Type: Normal Matrix: Soil 40z EPA Approved Glass Jar\Aqua Lid

Sampling Location: Sampling Date:

LEA COUNTY, NM 02/04/98

Temperature (Celcius):4

TPH (EPA 418.1)

TPH Prep Date: 02/09/98 <u>Analyte</u>

Results(mg/kg) <10

Detection Limit 10

Client Sample #: 61904-A

Total Petroleum Hydrocarbons

Laboratory ID #: Sample Container: Sampling Location: 98628 Order Type: Normal Matrix: Soil 40z EPA Approved Glass Jar\Aqua Lid LEA COUNTY, NM

02/04/98

Sampling Date: Temperature (Celcius):4

TPH (EPA 418.1)

TPH Prep Date: 02/09/98

Results(mg/kg) Detection Limit <u>Analyte</u> Total Petroleum Hydrocarbons <10 10

TS-TOTAL SOLIDS (EPA 160.3)

Detection Limit <u>Analyte</u> Results(%) Total Solids 93.1 1

Client Sample #: 61904-B

98629 Order Type: Normal Matrix: Soil

Laboratory ID #: Sample Container:

Methanol Jar LEA COUNTY, NM

Sampling Location: Sampling Date:

02/04/98

Temperature (Celcius):4

BTRX (RPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

Client Sample #: 61905-A

98630 Order Type: Normal Matrix: Soil.

Laboratory ID #: Sample Container:

Methanol Jar LEA COUNTY, NM

Sampling Location: Sampling Date:

02/04/98

Temperature (Celcius):4

BTEX (EPA 8020) Analyte Benzene	Results(mg/kg) <0.40	Detection Limit 0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

Client Name: Rhino Env. - Farmington

Submission #: 9802000055 Project Name: 6190298 Report Date: 02/12/98

Client Sample #: 61905-B Laboratory ID #:

98631 Order Type: Normal Matrix: Soil

Sample Container:

VialLEA COUNTY, NM

02/04/98

Sampling Location: Sampling Date:

Temperature (Celcius):4

TS-TOTAL SOLIDS (EPA 160.3)

<u>Analyte</u> Total Solids Results(%) 91.5

Detection Limit

Client Sample #: 61906

Laboratory ID #: Sample Container: Sampling Location: Sampling Date: 98632 Order Type: Normal Matrix: Soil 40z EPA Approved Glass Jar\Aqua Lid

LEA COUNTY, NM

02/04/98

TPH (EPA 418.1)

TPH Prep Date: 02/09/98

Temperature (Celcius):4

<u>Analyte</u> Total Petroleum Hydrocarbons Results(mg/kg)

Detection Limit

10

<u> Client Sample #: 61907</u>

Laboratory ID #: Sample Container: Sampling Location: 98633 Order Type: Normal Matrix: Soil 4oz EPA Approved Glass Jar\Aqua Lid

LEA COUNTY, NM

02/04/98

Sampling Date: Temperature (Celcius):4

TPH (EPA 418.1)

TPH Prep Date: 02/09/98 Analyte

Total Petroleum Hydrocarbons

Results(mg/kg) <10

Detection Limit 10

Client Sample #: MW

Laboratory ID #: Sample Container:

2xVOA Vial

Sampling Location: Sampling Date:

Temperature (Celcius):4

LEA COUNTY, NM

02/04/98

98634

DTEV (ED 4 0000)

Analyte	Results(ug/l)	Detection Limit
Benzene	<5.0	5.0
Toluene	<5.0	5.0
Ethyl Benzene	<5.0	5.0
Xylenes	<5.0	5. 0

Order Type: Normal Matrix: Liquid

Report To: Rhino Environmental

Lab Number: 9802000055

Page 5 of 6

QUALITY CONTROL DATA

METHOD	ANALYST	MAT	RIX	DATE EXTRACTED	DATE ANA	ALYZED
BTEX 8020	Howard Hay	den Solid		2/6/98	2/6/98	
SPIKE COMPOUND	SPIKE AMOUNT	% REC _1	% REC _2		% VAR.	% VAR QC LIMIT
Benzene	100 ppb	91.4	81.7	80-120	11	20.0
Toluene	100 ppb	93.1	83.3	80-120	11	20.0
Ethyl Benzene	100 ppb	92.0	81.8	80-120	11	20.0
Xylenes	300 ppb	96.6	86.1	80-120	11	20.0

QUALITY CONTROL DATA

<u>METHOD</u>	ANALYST	•	<u>MATRIX</u>	DATE EXTRAC	TED DATE A	NALYZED
BTEX 8020	Howard Hay	den	Liquid		2/6/	98
SPIKE COMPOUND	SPIKE AMOUNT	% REC	% RE0 _2	% REC G	QC <u>% VAR.</u>	% VAR QC <u>LIMIT</u>
Benzene	100 ppb	87.1	80.2	80-120	7.9	20.0
Toluene	100 ppb	88.7	81.7	80-120	7.9	20.0
Ethyl Benzene	100 ppb	87.8	80.6	80-120	8.2	20.0
Xylenes	300 ppb	92.4	85.2	80-120	7.8	20.0

QUALITY CONTROL DATA

TPH results are reported in parts per million (ppm) in solid.

Value 1

Value 2

% Var.

TPH:

134

138

2.9

CONCENTRATION UNITS:

TPH - ppm

DETECTION LIMITS:

TPH - 10

ANALYST

DATE EXTRACTED

_

DATE ANALYZED

Anthony Taylor

TPH

ANALYTE

2/9/98

2/9/98

Project: 6190298

Report To: Rhino Environmental Lab Number: 9802000055 Page 6 of 6

Project: 6190298

QUALITY CONTROL DATA

ANALYTE	DATE ANALYZED	SPIKE (ppm)	STAND. <u>DEV.</u>	COEFF. OF VAR %	RECV%	REC2%
Total Solids	2/11/98		0.354	0.4		

Standard Deviation = (x1-x2)/1.414Coefficient of Variability % = (S.D./Avg.) X 100 Recovery % = [(spiked-unspiked)/expected] X 100 Purchase Order/Chain Of Custody

Page O

Anachem, Inc. 8 Prestige Circle, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9686

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Sample information is vital for proper login and reporting. This is a contract subject to the terms and conditions on the reverse side.

Purchase Order/Chain Of Custody

Page of 2 Fax: 972-727-9686 Anachem, Inc. 8 Prestige Circle, Suite 104, Allen, TX 75002 Phone: 972-727-9003 ø

In the event that Anachem determines that a sample is hazardous, the client Agrees to: 7802-55 Pay For Sample Disposal Analysis Accept Returned Sample Submission # "Snothans methan Sample Notes Smithand 1497 - 4941 J 2 Sample Receipt Notes Method of Shipment Preserved Properly COC Seals Intact B3//2 1656 1530 1533 83/I SC91/32 Clay State, Zip: AID, NM 87,20S 1570 ChSI/ha Seal Temperature ISAI Date/Time D. Berardul Purchase Order #: R1198-1998 Quote #: 4 Address: PO 82x 2554 10:00 Bill To: (Buyer) Khino 2-4-1807 Time Phone: 242 - 6464 Matrix P Ŕ N $\frac{1}{3}$ Roll 3 χĝ lics Ŝ R 2/6/98 5 Date Sampled By: City, State: **2**00€ 268-3697 City, State, Zip: Farmington, / Non 87401 Received By 50% Report To: Daviele Berrardul 25% 3. 61902A-B 74/98 1807 61905-A Time 2. 61902A-A 6 1904 - A 690S-B 8-40619 Rush: Cash hea colu 90619 4. 619 02B Phone: 597-9626 Fax: 61903 Client Sample ID 8600619 10619 Date Address: SCR 6065 Company: Rhind ö. ٥. ∞: Project Location: 98623 25 24 27 Project Name: 29 57 3 30 010 REV 5/9 73 Date Due: Lab#

Sample information is vital for proper login and reporting. This is a contract subject to the terms and conditions on the reverse side.

December 3, 1997

Ms. Vicky Maranville Ground Water Section New Mexico Environment Department 1190 St. Francis Drive, PO Box 26110 Santa Fe, NM 87502

Ph: (505) 827-0652 Fx: (505) 827-2965

Re:

Landfarm Facility DP-619:

Quarterly Report - November 30, 1997

Dear Ms. Maranville:

In accordance with the conditions set forth in the Approved Discharge Plan, DP-619, enclosed please find the November 1997 quarterly report for Rhino's facility eight (8) mile south of Hobbs, Lea County, New Mexico. This report serves to maintain a written record of the amount of contaminated soil and wastewater accepted for treatment and to ensure that no contaminant migration has occurred.

Table one (1) includes all soil and water accepted from July 30, 1997 to October 31, 1997. One native soil sample was retrieved from each treatment area three (3) feet below the natural soil surface and submitted to Anachem, Inc. for analysis. Figure No. 1 is a site map showing the location of the samples. One sample was submitted for each active cell. The analytical results are summarized in Table two (2). A copy of the analytical report is submitted as Appendix A.

Please don't hesitate to call if you have any questions or require additional information.

Sincerely,

Daniele Berardelli

Rhino Environmental Services, Inc.

Attachments

DISCHARGE PLAN DP-619 QUARTERLY REPORT November 30, 1997

Soil accepted from July 30, 1997 to October 31, 1997

A total of 555.04 cubic yards (cy) of soil and 110 gallons were received during this quarter. A list of these soils are shown in the table below. All soils were disced on a regular basis.

TABLE NO. 1

DATE	VOLUME	SOURCE	TYPE	SECTION
07-30-97	2.0 cy	Caylor's Kerr McGee 301 S. Broadway Post, Texas	Gasoline	Cell 5
07-30-97	2.5 cy	Caprock Texaco 201 S. Broadway Post, Texas	Gasoline	Cell 5
07-31-97	2.0 cy	Town & Country #109 6519 University Lubbock, Texas	Gasoline	Cell 5
07-31-97	3.5 cy	Smyer One Stop Hwy. 114 Smyer, Texas	Gasoline	Cell 5
07-31-97	2.0 cy	Citizens Bank 700 South College Levelland, Texas	Gasoline	Cell 5
08-20-97	2.67 cy	Pete Stone Shell 6601 University Lubbock, Texas	Gasoline	Cell 5
08-20-97 & 08-23-97	3.16 cy	Groux Texaco 7002 Indiana Lubbock, Texas	Gasoline	Cell 5
08-20-97	0.33 cy	Simmons Punp, Co. 2605 Avenue H Lubbock, Texas	Gasoline	Cell 5
08-20-97	1.33 cy	Town & Country 3901 Avenue A Lubbock, Texas	Gasoline	Cell 5
08-20-97	0.67 cy	Scott Manufacturing 919 East 50 th Street Lubbock, Texas	Gasoline	Cell 5
08-22-97	1.5 cy	Big Tree Antiques 7215 W. 19 th Street Lubbock, Texas	Gasoline	Cell 5

DATE	VOLUME	SOURCE	TYPE	SECTION
08-22-97	4.25 cy	Bolton Services 2702 Avenue Q Lubbock, Texas	Gasoline	Cell 5
08-22-97	2.25 cy	Friends # 118 5643 Brownfield Hwy. Lubbock, Texas	Gasoline	Cell 5
08-22-97	3.5 cy	Former Station #2 5622 Brownfield Hwy. Lubbock, Texas	Gasoline	Cell 5
08-23-97	3.5 cy	McLain #3 818 Avenue A Lubbock, Texas	Gasoline	Cell 5
08-23-97	3.75 cy	Orlando's Texaco 322 1 st Street Brownfield, Texas	Gasoline	Cell 5
08-23-97	1.5 cy	Dan's Diam CSA 6201 19 th Street Lubbock, Texas	Gasoline	Cell 5
08-23-97	1.0 cy	McLain #17 724 Brownfield Hwy. Wolfforth, Texas	Gasoline	Cell 5
08-26-97	74.35 cy	City of Albuquerque Redlands & Coors Albuquerque, NM	Diesel	Cell 3
09-03-97	110 gal	Diamond Shamrock # 454 803 South Crane Odessa, Texas	Gasoline	Cell 5
09-04-97	3.0 cy	Eddins-Walcher 5002 Southeast Drive Lubbock, Texas	Gasoline	Cell 5
09-04-97	3.0 cy	Eddins-Walcher 317 N. Dixie Odessa, Texas	Gasoline	Cell 5
09-17-97 to 09- 20-97	309.67 cy	BJ Services 3 miles South of Eldorado, Hwy. 277 Eldorado, Texas	Waste Oil	Cell 1
09-27-97	8 cy	Chevron West Cordova Road Santa Fe, NM	Gasoline	Cell 5
10-06-97	83.61 cy	USPS/Uptown Station 2505 Graceland Albuquerque, NM	Gasoline	Cell 5

DATE	VOLUME	SOURCE	TYPE	SECTION
10-14-97	4.0 cy	Bolton Services #9 2167 50 th Lubbock, TX	Gasoline	Cell 5
10-14-97	1.0 cy	Friends # 504 IH 40 Amarillo, TX	Gasoline	Cell 5
10-14-97	1.0 cy	Allsup's #101 206 E. Broadway Fritch, TX	Gasoline	Cell 5
10-14-97	3.0 cy	Bolton Services #3 4250 Avenue A Lubbock, TX	Gasoline	Cell 5
10-14-97	5.0 cy	Gibson Plumbing 5279 34 th Street Lubbock, TX	Gasoline	Cell 5
10-14-97	7.0 cy	South Plains Bank 600 College Levelland, TX	Gasoline	Cell 5
10-14-97	4.0 cy	Town & Country 3314 4 th Street Lubbock, TX	Gasoline	Cell 5
10-14-97	2.0 cy	Allsup's #102 105 South Central Knox City, TX	Gasoline	Cell 5
10-24-97	5.0 cy	Best Buy Motors 1304 E. Coliseum Snyder, Texas	Gasoline	Cell 5

Quarterly Soil Sampling:

One native soil sample was retrieved from the treatment area 3 feet below the natural soil surface. Figure No. 1 is a Site Map showing the location of the sample. Samples were submitted for analysis by EPA method 418.1 (TPH) and EPA method 8020 (benzene-BTEX). The analytical results are summarized in Table No. 1.

Table No. 1 Gummary of Analytical Results from Native Soil Sampling		
Sample ID	Benzene ug/kg	TPH mg/kg
Cell 1		< 10
*Cell 2A	< 0.40	78, resample < 10
*Cell 2B		180, resample < 10
Cell 3	< 0.40	< 10
Cell 4	< 0.40	< 10
Cell 5	< 0.40	< 10
Cell 6		< 5.0
*Cell 7		56, resample < 10

Copies of the analytical reports are shown in Appendix A. Final results of the native soil testing were below detection limits, thereby demonstrating no contaminant migration into native soils.

• Rhino employed a new individual, Mr. Allen Hodge, to collect soil samples. When initial results were received, he explained that due to the extremely hard subsurface, it had been very difficult for him to dig to the proper depths. During the process of digging into that rock layer, he said it would have been very easy for cross contamination to occur. Mr. Hodge then took a second round of samples in almost the same exact locations. These samples were analyzed and results demonstrate the soil is clean.



ANACHEM INC.

8 Prestige Circle, Suite 104 Allen, Texas 75002 972/727-9003 = FAX # 972/727-9686 • 1-800-966-1186

Customer Name:

Date Received:

Rhino Env. - Farmington November 19, 1997 at 10:00:00

Date Reported:

November 21, 1997

Submission #:

9711000212

Project:

DP 619-1197

SAMPLES The submission consisted of 13 samples with sample

I.D.'s shown in the attached data tables.

TESTS

The samples listed in the attached result pages were analyzed for:

* BTEX (EPA 8020)

* METHANOL SAMPLE CONTAINER PREP, NEW MEXICO

* TPH (EPA 418.1)

* TS-TOTAL SOLIDS (EPA 160.3)

<u>Distribution Of Reports</u>

1-Ms. Daniele Berardelli of Rhino Env. - Farmington

Ph. 505-598-9626 Fax 505-598-9627

Respectfully Submitted,

Anachem Inc.

Howard H. Hayden, B.S.

Chemist

Submission #: 9711000212 lims

E. Newton, Ph.D.

Chemist

NOTE: Submitted material will be retained for 60 days unless notified or consumed in analysis. Material determined to be hazardous will be returned or a \$20 disposal fee will be assessed. Our letters and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our prior written approval. Our letters and reports apply to the sample tested and/or inspected, and are not necessarily indicative of the qualitites of apparently identical or similar materials.

Submission #: 9711000212 Project Name: DP 619-1197 Report Date: 11/21/97

Client Sample #: SECTION 1-01

94446 Order Type: Normal Matrix: Soil 40z EPA Approved Glass Jar\Aqua Lid LEA COUNTY, NM

Laboratory ID #: Somple Container: Sampling Location: Sampling Date:

Temperature (Celcius):4

11/17/97

TPH (EPA 418.1)

TPH Prep Date: 11/20/97

<u>Analyte</u> Total Petroleum Hydrocarbons Results(mg/kg) <10

Detection Limit

10

TS-TOTAL SOLIDS (EPA 160.3)

<u>Analyte</u> Total Solids Results(%) 90.4

Detection Limit

Client Sample #: SECTION 1-02

Laboratory ID #:

94447 Order Type: Normal Matrix: Soil

Sample Container:

Methanol Jar

Sampling Location Sampling Date:

LEA COUNTY, NM

11/17/97

Temperature (Celcius):4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	< 0.40	0.40
Toluene	< 0.50	0.50
Ethyl Benzene	< 0.50	0.50
Xylenes	< 0.50	0.50

Client Sample #: SECTION 2A-01

Laboratory ID #: Sample Container:

94448 Order Type: Normal Matrix: Soil 4oz EPA Approved Glass Jar\Aqua Lid LEA COUNTY, NM

Sampling Location: Sampling Date: Temperature (Celcius):4

11/17/97

TPH (EPA 418.1)

TPH Prep Date: 11/20/97

<u>Analyte</u> Total Petroleum Hydrocarbons Results(mg/kg) 78

Detection Limit

10

TS-TOTAL SOLIDS (EPA 160.3)

<u>Analyte</u> **Total Solids** Results(%) 95.1

Detection Limit

Client Sample #: SECTION 2A-02 Laboratory ID #: 94449

Order Type: Normal Matrix: Soil 94449

Sample Container:

Methanol Jar LEA COUNTY, NM

Sampling Location: Sampling Date:

11/17/97

Temperature (Celcius):4

BTEX (EPA 8020)		
Analyte	Results(mg/kg)	<u>Detection Limit</u>
Benzene	<0.40	0.40
Toluene	< 0.50	0.50
Ethyl Benzene	<0.50	0.50

Page 2 of 1

Submission #: 9711000212 Project Name: DP 619-1197 Report Date: 11/21/97

BTEX (EPA 8020)

Analyte Results(mg/kg) Detection Limit Xvlenes < 0.50 0.50

Client Sample #: SECTION 2B Laboratory ID #: 9445

Sample Container:

94450 Order Type: Normal Matrix: Soil 4oz EPA Approved Glass Jar\Aqua Lid LEA COUNTY, NM

11/17/97

Sampling Location: Sampling Date:

Temperature (Celcius):4

TPH (EPA 418.1)

TPH Prep Date: 11/20/97

Results(mg/kg) Detection Limit Total Petroleum Hydrocarbons 180 10

Client Sample #: SECTION 3
Laboratory ID #: 944
Sample Container: 402

94451 Order Type: Normal Matrix: Soil 4oz EPA Approved Glass Jar\Aqua Lid LEA COUNTY, NM

11/17/97

Sampling Location: Sampling Date:

Temperature (Celcius):4

TPH (EPA 418.1)

TPH Prep Date: 11/20/97

<u>Analyte</u> Results(me/kg) Detection Limit Total Petroleum Hydrocarbons <10

Client Sample #: SECTION 4-01

Laboratory ID #: Sample Container:

94452 Order Type: Normal Matrix: Soil 4oz EPA Approved Glass Jar\Aqua Lid LEA COUNTY, NM

Sampling Location: Sampling Date: Temperature (Celcius):4

11/17/97

TPH (EPA 418.1) TPH Prep Date: 11/20/97

Analyte Results(mg/kg) Detection Limit Total Petroleum Hydrocarbons <10 10

TS-TOTAL SOLIDS (EPA 160.3)

Results(%) Detection Limit Analyte Total Solids 93.5

Client Sample #: SECTION 4-02

Order Type: Normal Matrix: Soil Laboratory ID #: 94453

Sample Container: Sampling Location: Sampling Date:

Methanol Jar LEA COUNTY, NM

11/17/97

Temperature (Celcius):4

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	< 0.50	0.50
Ethyl Benzene	< 0.50	0.50
Xylenes	< 0.50	0.50

2972 727 9686

Submission #: 9711000212 Project Name: DP 619-1197 Report Date: 11/21/97

Client Sample #: SECTION 5-01
Laboratory ID #: 94454
Sample Container: Metha 94454 Order Type: Normal Matrix: Soil

Methanol Jar

Sampling Location: Sampling Date: LEA COUNTY, NM

11/17/97

Temperature (Celcius):4

<u>Analyte</u>	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

Client Sample #: SECTION 5-02 Laboratory ID #: 94455 Sample Container: 402 EF 94455 Order Type: Normal Matrix: Soil 402 EPA Approved Glass Jar\Aqua Lid LEA COUNTY, NM

Sampling Location: Sampling Date: Temperature (Celcius):4

11/17/97

TS-TOTAL SOLIDS (EPA 160.3)

Analyte Results(%) **Detection Limit** Total Solids 95.4

Client Sample #: SECTION 6
Laboratory ID #: 944 94456 Order Type: Normal Matrix: Soil 4oz EPA Approved Glass Jar\Aqua Lid

Sample Container: LEA COUNTY, NM

11/17/97

Sampling Location: Sampling Date:

Temperature (Celcius):4

TPH (EPA 418.1)

TPH Prep Date: 11/20/97 <u>Analyte</u> Results(mg/kg) **Detection Limit** Total Petroleum Hydrocarbons <10 10

Client Sample #: SECTION 7
Laboratory ID #: 944
Sample Container: 402 94457 Order Type: Normal Matrix: Soil 402 EPA Approved Glass Jar\Aqua Lid LEA COUNTY, NM

Sampling Location: Sampling Date:

11/17/97

Temperature (Celcius):4

TPH (EPA 418.1)

TPH Prep Date: 11/20/97

Results(mg/kg) Detection Limit Analyte Total Petroleum Hydrocarbons 56 10

Client Name: Rhino Env. - Farmington Submission #: 9711000212 Project Name: DP 619-1197 Report Date: 11/21/97

Client Sample #: MW #3
Laboratory ID #:
Sample Container:
Sampling Location:
Sampling Date:
Temperature (Celcius):4

94458 Order Type: Normal Matrix: Liquid 2xVOA Vial LEA COUNTY, NM

11/17/97

BTEX (EPA 8020)

Report To: Rhino Env. -Farmington Lab Number: 9711000212 Page 6 of 1

Project: DP 619-1197

QUALITY CONTROL DATA

<u>METHOD</u>	ANALYST	<u>N</u>	<u>IATRIX</u>	DATE EXTRACT	TED DATE	ANALYZED
BTEX 8020	Howard Hay	den S	olid	11/19/97	11/	19/97
SPIKE COMPOUND	SPIKE AMOUNT	% REC _1	% RE	C % REC QOLIMIT	C <u>% VAR.</u>	% VAR QC <u>LIMIT</u>
Benzene	100 ppb	94.1	95.1	80-120	1.1	20.0
Toluene	100 ppb	94.4	95.4	80-120	1.1	20.0
Ethyl Benzene	100 ppb	90.8	91.9	80-120	1.2	20.0
Xylenes	300 ppb	86.0	87.2	80-120	1.4	20.0

QUALITY CONTROL DATA

METHOD	<u>ANALYST</u>	<u>M</u>	ATRIX	DATE EXTRACTED	DATE A	NALYZED
BTEX 8020	Howard Hay	vden Li	quid		11/1	9/97
SPIKE COMPOUND	SPIKE AMOUNT	% REC _1	% REC	•	% VAR.	% VAR QC <u>LIMIT</u>
Benzene	100 ppb	96.9	92.5	80-120	4.5	20.0
Toluene	100 ppb	95.3	90.5	80-120	5.0	20.0
Ethyl Benzene	100 ppb	94.6	91.7	80-120	3.1	20.0
Xylenes	dqq 008	91.4	88.2	80-120	3.5	20.0

Report To: Rhino Env. -Farmington

Lab Number: 9711000212 Page 7 of 7

Project: DP 619-1197

QUALITY CONTROL DATA

TPH results are reported in parts per million (ppm) in solid.

Value 1

Value 2

% Var.

TPH:

78

76

2.6

CONCENTRATION UNITS:

TPH - ppm

DETECTION LIMITS:

TPH - 10

ANALYST

ANALYTE

DATE EXTRACTED

DATE ANALYZED

Anthony Taylor

TPH

11/20/97

11/20/97

QUALITY CONTROL DATA

ANALYTE	DATE <u>ANALYZED</u>	SPIKE (ppm)	STAND. <u>DEV.</u>	COEFF. OF VAR %	REC1/%	<u>REC2</u> %
Total Solids	11/20/97		0	0		

Standard Deviation = (x1-x2)/1.414Coefficient of Variability % = (S.D./Avg.) X 100 Recovery % = [(spiked-unspiked)/expected] X 100 **5**972 727 9686

Purchase Order/Chain Of Custody

Anachem, Inc. 8 Prestige Orde, Suite 104,	- 11	Allen, TX 75002	002 Phone: 972-727-9003	1	Fac: 97	Fax: 972-727-9686		
Report To: Dankle Berrandell	Bill To: (Buyer)	mino (Bill To: (Buyer) Rhino En wyonmendal	ental.			Analysis	
Company: Phino Environmental	Purchase Order #:	R1197-1997	90/Lbb	hebhso				
Address SCR 6065	Address: P.D	PO Bux assy		·				
Gir, State, 210: Formington, NM 87401	dry, State, ZID: AID., NYM 871.05	lb., Nr	201680		Н	X3		
Phone: 598-9626 Fax: 598-9627	Phone: Aug. 6464	৸ঀ৸	ויי שלו-עקע	गिका	له	⊥8 <u>~</u>		
Project Name: DP619-1197			Quote #:		_	<u> </u>		
Project Location: Lea Constitutes	City, State: NYM		,		1:	15. OC		
Date Due: (1/24 Ruch: (0%) 25% 50% 100%	Sampled By:	Allen Hodge	odge		81 t	000		
ð		Matrix	Date/Time	Sample Notes	7	1		
94446 1. Section 1-01		انعى	01:21 13/11	أتق	×	X		
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		ازم	11/12/by 15:58	ોલ	×	×		
4.	V	li s	uliyas 15:53	15:53 methonos		×		
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V 55 10. Seedin 5-02		Dil.	11 July 14:00	ia		×		
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14 11-17-11 12	Lil 11/19/97	07/01/10	Temperature	you	sample Pay	nple is hazardous, the client Pay For Sample Disposal V	sample is hazardous, the client agrees to: Pay For Sample Duposal	
			Preserved Property	7	¥	Accept Returned Sample	ample	
			COC Seals Intact	,				
			Method of Shipment	ıt				
		<u>-</u>				Submission # 9	9711-212	
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Sample information is vital for proper login and reporting. This is a contract subject to the terms and conditions on the reverse side.

Paged of B

13:26

Purchase Order/Chain Of Custody

Anachem, Inc. 8 Preside Orde, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9686

	D. C. A. U.	Dall To. (Brown) (1/2 To.)	(In T. Lat.)			Analysts
Neport 10: C	איייניער בפיותרות איייניער	Pir In: (priver)	2			Tree I market
Company: RM	company, Rhino Environmental	Purchase Order #: OS 1924	56493	<u>ک</u>		
Address 5 CR 6065	R 6065	Address: P.O. Bux 25547	18 CX 5	(hSSI		
City, State, Zip: 7	City, State, Zip: Farminoden, MM 8760)	SCILS MM, AID AID SON	115, Un	20178 N	1	06
Phone: 598.	Phone: 598-9686 Fave 598-9627	Phone: 342-6464	<u> </u>	ት ይህ-ርሃይ ³⁶³	તવર્પા	\Q\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Project Name:	Project Name: DP619-1197			Quote #:	·	Б -
Project Location:	(On Course	Chy, State: NYN				
Pate Due: 1/24	2 4 Rush: (0%) 25% 50% 100%	% Sampled By:	allen Hodge	odge		145
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Jens .	~ 11-241 1639 had 1	1/19/ W/19/	@:01 Lb/	Temperature	rop	Pay For Sample Disposal V
				Preserved Properly	. / . .	Accept retuined sample
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			· .	Method of Shipment	į	
						Submission # 9711-212
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						

Sample information is vital for proper login and reporting. This is a contract subject to the terms and conditions on the reverse side.

To: Allen Hodge

392-93 76

From: Daniele

Pgs: 1 Date: 11/21

We'll need to resample 3 cells at 619. Results showed TPH hits where it should be clean. Are you grups able to get down 3ft. Over there - let me know.

Cell 2A showed 78ppm, need to resample (same location) + submit for TPH (418.1) analysis

Cell 2B showed 180 ppm, this is pretly high, need to Collect 2 samples from same location + Submit for TPH (418.1) analysis

Cell 7 showed 56 ppm, again need to resample (same location) + submit for TPH (418.1) analysis.

Also - I'll need maps shouring sample locations for both rounds at 619 + the one from 600 tea.

Have you send the Pride + Snight, Tx manifests yet -I have not received them. I've be going out ob town next week + wanted to take case of all that before I leave. Then his for your help.

SERVICES, Inc. Sec. 11, Sec. 14, T205, 838E

B sample coluction location

OH a Oka Mause



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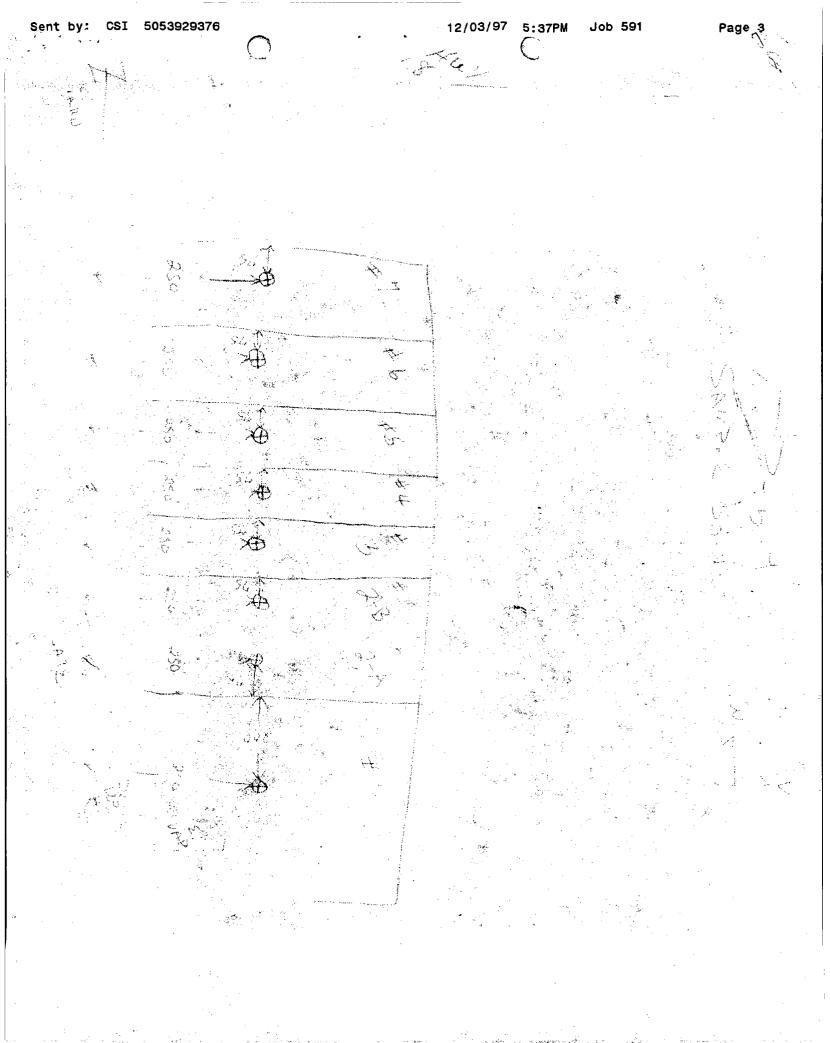
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8 Prestige Circle, Suite 104 Allen, Texas 75002 972/727-9003 • FAX # 972/727-9686 • 1-800-966-1186

Customer Name:

Rhino Env. - Farmington

Date Received:

December 1, 1997 at 09:00:00

Date Reported:

December 1, 1997 -

Submission #:

9712000002

Project:

RHINO ENVIRONMENTAL

SAMPLES The submission consisted of 3 samples with sample I.D.'s shown in the attached data tables.

TESTS

The samples listed in the attached result pages were analyzed for:

* TPH (EPA 418.1)

Distribution Of Reports

1-Ms. Daniele Berardelli of Rhino Env. - Farmington Ph. 505-598-9626 Fax 505-598-9627

Respectfully Submitted, Anachem.Inc.

loward H. Hayden, B.S. Chemist

Submission #: 9712000002 lims

NOTE: Submitted material will be retained for 60 days unless notified or consumed in analysis. Material determined to be hazardous will be returned or a \$20 disposal fee will be assessed. Our letters and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our prior written approval. Our letters and reports apply to the sample tested and/or inspected, and are not necessarily indicative of the qualitites of apparently identical or similar materials. Page__ 95000 to 95002

Client Name: Rhino Lnv. - Farmington Submission #: 9712000002

Project Name: RHINO ENVIRONMENTAL Report Date: 12/01/97

Client Sample #: CELL 2-A

Laboratory ID #: Sample Container:

95000 Order Type: Normal Matrix: Soil 4oz EPA Approved Glass Jar\White lid

Sampling Location: Sampling Date:

DP-619, HÖBBS, NM

11/28/97

TPH (EPA 418.1)

TPH Prep Date: 12/01/97

<u>Analyte</u> Total Petroleum Hydrocarbons Results(mg/kg)

<10

Detection Limit

10

Client Sample #: CELL 2-B Laboratory ID #: 9

Sample Container:

95001 Order Type: Normal Matrix: Soil 4oz EPA Approved Glass Jar\White lid DP-619, HOBBS, NM

Sampling Location: Sampling Date:

11/28/97

TPH (EPA 418.1)

TPH Prep Date: 12/01/97

<u>Analyte</u> Total Petroleum Hydrocarbons Results(mg/kg) <10

Detection Limit

10

Client Sample #: CELL 7

Laboratory ID #: Sample Container:

95002 Order Type: Normal Matrix: Soil 40z EPA Approved Glass Jar\White lid

Sampling Location:

DP-619, HÔBBS, NM

Sampling Date:

11/28/97

TPH (EPA 418.1)

TPH Prep Date: 12/01/97

Analyte Total Petroleum Hydrocarbons Results(mg/kg) <10

Detection Limit

10

Report To: Rhino Env.

Project: RHINO ENVIRONMENTAL

Lab Number: 9712000002 Page <u>3</u> of <u>3</u>

QUALITY CONTROL DATA

TPH results are reported in parts per million (ppm) in solid.

Value 1

Value 2

% Var.

TPH:

252

244

3.2

CONCENTRATION UNITS:

TPH - ppm

DETECTION LIMITS:

TPH - 10

ANALYST

ANALYTE

DATE EXTRACTED

DATE ANALYZED

Anthony Taylor

TPH

12/1/97

12/1/97

Page Lof L.

Purchase Order/Chain Of Custody

Anachem, Inc. 8 Prestige Circle, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9686

In the event that Anachem determines that a sample is hazardous, the client agrees to: 9712-02 Analysis Accept Returned Sample Pay For Sample Disposal Submission # 418 Sample Notes City, State, ZIp: ALb Ug UERQUE, NA 87125 Phone: 1-800-762-0241 Fax:505-247-494 BIII TO: (BUYET) PLINO ENVIDONMENTAL Method of Shipment FE Sample Receipt Notes 11-28-97 Pm Preserved Properly 112697 1130 11-2597 125 COC Seals Intact Temperature Date/Time Address: P.O. BOX 25547 Quote #: Time **%** 2016 とのに Sampled By: Aller TO 665 Matrix Date Purchase Order #: City, State: Project Name: RAINO ENIRON MENTAL 20% 400% Phone: 1-800-499-8393 Fax: 505-598-9627 COMPANY: RLIND EMIRONMENTAL Received By 87401 REPORT TO: DANIELLE BERARDELLI 2-A 2-B City, State, Zip: FARM Jug TON, NM 25% Time Rush: 0% 1. Cをしし Client Sample ID 2. C2 LL 11-2897 Project Location: DP-619 Address: 5 RJ. 6065 Date 'n ø. œ ٥. Date Due: ASAP **510 REV 5/97** 9550 07 6 Lab#

Sample information is vital for proper login and reporting. This is a contract subject to the terms and conditions on the reverse side.

×

August 15, 1997

Ms. Vicky Maranville Ground Water Section New Mexico Environment Department 1190 St. Francis Drive, PO Box 26110 Santa Fe, NM 87502

Re: Landfarm Facility DP-619:

Quarterly Report -August 31, 1997

Dear Ms. Maranville:

In accordance with the conditions set forth in the Approved Discharge Plan, DP-619, enclosed please find the August 1997 quarterly report for Rhino's facility eight (8) mile south of Hobbs, Lea County, New Mexico. This report serves to maintain a written record of the amount of contaminated soil and wastewater accepted for treatment and to ensure that no contaminant migration has occurred.

Table one (1) includes all soils and water accepted from May 1, 1997 to July 31, 1997. One native soil sample was retrieved from each treatment area three (3) feet below the natural soil surface and submitted to Anachem, Inc. for analysis. Figure No. 1 is a site map showing the location of the samples. One sample was submitted for each cell. The analytical results are summarized in Table two (2). A copy of the analytical report is submitted as Appendix A.

Please don't hesitate to call if you have any questions or require additional information.

Sincerely,

Daniele Berardelli

Rhino Environmental Services, Inc.

Attachments



DISCHARGE PLAN DP-619 QUARTERLY REPORT August 31, 1997

Soil accepted from May 1, 1997 to July 31, 1997

A total of 43.98 cubic yards (cy)of soil were received during this quarter. A list of these soils are shown in the table below. All soils were disced on a regular basis.

TABLE NO. 1

VOLUME	SOURCE	TYPE	SECTION
6.99 cy	U.S. Postal Service 500 Marquette Albuquerque, New Mexico	Diesel	Cell 3
0.33 cy	Rip Griffins 50 th and Avenue A Lubbock, Texas	Gasoline	Cell 5
4.0 cy	SPD # 7 2618 50 th Street Lubbock, Texas	Gasoline	Cell 5
3.3 cy	Cornelius Conoco South 2 nd Street Floydada, Texas	Gasoline	Cell 5
3.0 cy	Rip Griffins Gomez, Texas	Gasoline	Cell 5
0.7 cy	Wilson Chevron 402 S. Broadway Post, Texas	Gasoline	Cell 5
0.6 cy	B & H Chevron 101 N. Broadway Post, Texas	Gasoline	Cell 5
3.3 cy	SPD # 5 5801 4 th Street Lubbock, Texas	Gasoline	Cell 5
1.66 cy	Shing Kon Hon 34 th and Knoxville Avenue Lubbock, Texas	Gasoline	Cell 5
2.3 cy	Bobs Chevron 3664 50 th Street Lubbock, Texas	Gasoline	Cell 5
4.6 cy	Brownfield Communications 717 Seagraves Road Brownfield, Texas	Gasoline	Cell 5
	6.99 cy 0.33 cy 4.0 cy 3.0 cy 0.7 cy 0.6 cy 1.66 cy	6.99 cy U.S. Postal Service 500 Marquette Albuquerque, New Mexico 0.33 cy Rip Griffins 50 th and Avenue A Lubbock, Texas 4.0 cy SPD # 7 2618 50 th Street Lubbock, Texas 3.3 cy Cornelius Conoco South 2 nd Street Floydada, Texas 3.0 cy Rip Griffins Gomez, Texas 0.7 cy Wilson Chevron 402 S. Broadway Post, Texas 0.6 cy B & H Chevron 101 N. Broadway Post, Texas 3.3 cy SPD # 5 5801 4 th Street Lubbock, Texas 1.66 cy Shing Kon Hon 34 th and Knoxville Avenue Lubbock, Texas 2.3 cy Bobs Chevron 3664 50 th Street Lubbock, Texas 4.6 cy Brownfield Communications 717 Seagraves Road	6.99 cy U.S. Postal Service 500 Marquette Albuquerque, New Mexico 0.33 cy Rip Griffins 50th and Avenue A Lubbock, Texas 4.0 cy SPD # 7 2618 50th Street Lubbock, Texas 3.3 cy Cornelius Conoco South 2th Street Floydada, Texas 3.0 cy Rip Griffins Gomez, Texas 0.7 cy Wilson Chevron 402 S. Broadway Post, Texas 0.6 cy B & H Chevron 101 N. Broadway Post, Texas 3.3 cy SPD # 5 5801 4th Street Lubbock, Texas 5801 to Sing Kon Hon 34th and Knoxville Avenue Lubbock, Texas 2.3 cy Bobs Chevron 3664 50th Street Lubbock, Texas 4.6 cy Brownfield Communications 717 Seagraves Road Gasoline



RHINO ENVIRONMENTAL SERVICES, INC.

DATE	VOLUME	SOURCE	TYPE	SECTION
06-28-97	4.6 cy	Benton Oil 2902 Parkway Lubbock, Texas	Gasoline	Cell 5
06-28-97	0.6 cy	Preston Store #6 4102 39th Street Lubbock, Texas	Gasoline	Cell 5
07-03-97	1.5 c y	7-Eleven #57100 800 County Road West Odessa, Texas	Gasoline	Cell 5
07-03-97	2.5 cy	7-Eleven #57504 800 S. Gregg Big Spring, Texas	Gasoline	Cell 5
07-08-97	2.0 cy	Southwest Energy Distributors 2210 W. 2 nd Street Odessa, Texas	Gasoline	Cell 5
07-08-97	2.0 cy	7-Eleven #57110 1523 North Harless Odessa, Texas	Gasoline	Cell 5



Quarterly Soil Sampling:

One native soil sample was retrieved from the treatment area 3 feet below the natural soil surface. Figure No. 1 is a Site Map showing the location of the sample. Samples were submitted for analysis by EPA method 418.1 (TPH) and EPA method 8020 (benzene-BTEX). The analytical results are summarized in Table No. 1.

Table No. 1 Summary of Analytical Results from Native Soil Sampling								
Sample ID	Benzene ug/kg	TPH mg/kg						
*Cell 1								
Cell 2A	< 0.40	< 10						
Cell 2B		< 5.0						
Cell 3	< 0.40	< 10						
Cell 4	< 0.40	< 10						
Cell 5	< 0.40	< 10						
Cell 6		< 5.0						
**Cell 7		60.0←						

MW3 (10 mW-01) 45.0 mg/1

Copies of the analytical reports are shown in Appendix A. The results of the native soil testing were below detection limits for all cell except 7, thereby demonstrating no contaminant migration into native soils.

- No soil has been accepted into Cell 1. Cell 1 is currently inactive, therefore, no native soil sample was collected.
- I spoke with Mr. Howard Hayden, Chemist, Anachem, Inc. concerning Cell 7. Under DP-619 is a large caliche layer, practically solid rock. Considering all past native soil results and the subsurface geology, I could not see how this result could be accurate. Mr. Hayden explained that the 60 ppm result may not have been due to petroleum contamination, but may instead have been the result of carbonaceous material slipping through the filter. This material may have caused interference and caused the IR to see a false reading. Please let me know if NMED would like us to collect and analyze another sample.



ANACHEM INC.

8 Prestige Circle, Suite 104 Allen, Texas 75002 972/727-9003 • FAX # 972/727-9686 • 1-800-R66-1186

Customer Name:

Rhino Env. - Farmington August 7, 1997 at 10:00:00

Date Received: **Date Reported:**

Submission #:

August 8, 1997 9708000069

Project:

DP 6190897

SAMPLES The submission consisted of 12 samples with sample

I.D.'s shown in the attached data tables.

TESTS

The samples listed in the attached result pages were analyzed for:

ANACHEM INC.

* BTEX (EPA 8020)

* METHANOL SAMPLE CONTAINER PREP, NEW MEXICO

* TPH (EPA 418.1)

<u>Distribution Of Reports</u>

1-Ms. Daniele Berardelli of Rhino Env. - Farmington

Ph. 505-598-9626 Fax 505-598-9627

Respectfully Submitted,

Anachem,Inc.

Howard M. Hayden, B.S.

Chemist

Submission #: 9708000069 lims

NOTE: Submitted material will be retained for 60 days unless notified or consumed in analysis. Material determined to be hazardous will be returned or a \$20 disposal fee will be assessed. Our letters and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our prior written approval. Our letters and reports apply to the sample tested and/or inspected, and are not necessarily indicative of the qualitities of apparently identical or similar materials. 88710 to 88721 Page / of 5

Submission #: 9708000069 **Project Name:** DP 6190897 Report Date: 08/08/97

Client Sample #: 2A-01 Laboratory ID #: Sample Container:

88710 Order Type: Normal Matrix: Soil

Methanol Jar LEA COUNTY, NM 08/04/97 Sampling Location: Sampling Date:

Temperature (Celcius).4

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluenc	<0.50	0,50
Ethyl Benzene	< 0.50	0.50
Xylenes	<0.50	0.50

Client Sample #: 2A-02 Laboratory ID #: Sample Container: Sampling Location:

88711 Order Type: Normal Matrix: Soil 4oz EPA Approved Glass Jur\Aqua Lid LEA COUNTY, NM

08/04/97

Sampling Date: Temperature (Celcius):4

TPH (EPA 418.1)

TPH Prep Date: 08/08/97

<u>Analyte</u> Total Petroleum Hydrocarbons Results(mg/kg) Detection Limit <10 10

Client Sample #: 2B-01

Laboratory ID #: Sample Container: Sampling Location: Sampling Date:

88712 Order Type: Normal Matrix: Soil 402 EPA Approved Glass Jar\Aqua Lid LEA COUNTY, NM

Temperature (Celcius):4

08/04/97

TPH (EPA 418.1)

TPH Prep Date: 08/08/97 <u>Analyte</u>

Total Petroleum Hydrocarbons

Detection Limit Results(mg/kg) <10 10

Client Sample #: 3-01 Laboratory ID #: Sample Container:

Sampling Location:

Sumpling Date: Temperature (Celcius):4

88713 Order Type: Normal Matrix: Soil Methanol Jar

LEA COUNTY, NM

08/04/97

RTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	< 0.50	0.50
Xylenes	<0.50	0.50

Submission #: 9708000069 **Project Name:** DP 6190897 Report Date: 08/08/97

Client Sample #: 3-02 Laboratory ID #: Sample Container:

88714 Order Type: Normal Matrix: Soil 4vz EPA Approved Glass Jar\Aqua Lid

ANACHEM INC.

LEA COUÑTY, NM

08/04/97

88715

Sampling Location: Sampling Date: Temperature (Celcius):4

TPH (EPA 418-1)

TPH Prep Date: 08/08/97

<u>Analyte</u> Total Petroleum Hydrocarbons Results(mg/kg) <10

Detection Limit 10

Client Sample #: 4-01

Laboratory ID #: Sample Container: Sampling Location:

Methanol Jar LEA COUNTY, NM 08/04/97

Sampling Date: Temperature (Celcius):4

BTEX (EPA 8020)

Analyte Results(mg/kg) Detection Limit Benzene < 0.40 0.40Toluene < 0.50 0.50 Ethyl Benzene < 0.50 0.50 Xylenes < 0.50 0.50

Order Type: Normal Matrix: Soil

Client Sample #: 4-02

Laboratory ID #: Sample Container: Sampling Location: Sampling Date: 88716 Order Type: Normal Matrix: Soil 40z EPA Approved Glass Jar\Aqua Lid LEA COUNTY, NM 08/04/97

Temperature (Celcius):4

TPH (EPA 418.1)

TPH Prep Date: 08/08/97 <u>Analyte</u>

Total Petroleum Hydrocarbons

Results(mg/kg) <10

Detection Limit 10

Client Sample #: G5-01

Laboratory ID #: Sample Container:

Sampling Location:

Sampling Date: Temperature (Celcius):1 88717 Order Type: Normal Matrix: Soil

Methanol Jar LEA COUNTY, NM

08/04/97

RTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	< 0.50	0.50
Xvlenes	<0.50	0.50

Submission #: 9708000069 Project Name: DP 6190897 Report Date: 08/08/97

Client Sample #: G5-02

Laboratory ID #: Sample Container: Sampling Location: Sampling Date: 88718 Order Type: Normal Matrix: Soil 40z EPA Approved Glass Jar\Aqua Lid

ANACHEM INC.

LEA COUNTY, NM

08/04/97

Temperature (Celcius):4

TPH (EPA 418.1)

TPH Prep Date: 08/08/97

<u>Analyte</u> Total Petroleum Hydrocarbons Results(mg/kg) <10

Detection Limit 10

Client Sample #: D6-01

Laboratory ID #: Sample Container: Sampling Location: Sampling Date:

Temperature (Celcius):4

88719 Order Type: Normal Matrix: Soil 402 EPA Approved Glass Jar\Aqua Lid

LEA COUNTY, NM

08/04/97

TPH (EPA 418.1)

TPH Prep Date: 08/08/97

Analyte Total Petroleum Hydrocarbons Results(mg/kg) <10

Detection Limit

Client Sample #: U7-01 Laboratory ID #: Sample Container: Sampling Location: Sampling Date: Temperature (Celcius):4

88720 Order Type: Normal Matrix: Soil 402 EPA Approved Glass Jar\Aqua Lid LEA COUNTY, NM

08/04/97

TPH (EPA 418.1)

TPH Prep Date: 08/08/97

Analyte | Total Petroleum Hydrocarbons Results(mg/kg) 60

Detection Limit 10

Client Sample #: MW-1

Laboratory ID #: Sample Container: Sampling Location: Sumpling Date:

88721 Order Type: Normal Matrix: Liquid

VOA Vial

LEA COUNTY, NM

08/04/97 Temperature (Celcius):4

BTEX (EPA 8020)

<u>Analyte</u> Results(ug/l) Detection Limit Benzene <5.0 5.0 Toluene <5.0 5.0 Ethyl Benzene < 5.0 5.0 **Xylenes** <5.0 5.0

Page 4 of 5

Project: DP6190897

Report To: Rhino Environmental

Lab Number: 9708000069

Page <u>5</u> of <u>5</u>

QUALITY CONTROL DATA

<u>METHOD</u>	METHOD ANALYST		TRIX	DATE EXTRACT	ED DATE A	NALYZED
BTEX 8020	Howard Hay	den Sol	id	8/7/97	8/7/	/97
SPIKE COMPOUND	SPIKE AMOUNT	% REC _1	% RE _2	C % REC QC <u>LIMIT</u>	% VAR.	% VAR QC <u>LIMIT</u>
Benzene	100 ppb	104	102	80-120	1.9	20.0
Toluene	100 ppb	106	103	80-120	2.8	20.0
Ethyl Benzene	100 ppb	111	108	80-120	2.7	20.0
Xylenes	300 ppb	114	111	80-120	2.6	20.0

QUALITY CONTROL DATA

TPH results are reported in parts per million (ppm) in solid.

	Value 1	Value 2	% Var.
TPH:	60	58	3.3

CONCENTRATION UNITS: TPH - ppm

DETECTION LIMITS: TPH - 10

ANALYST ANALYTE DATE EXTRACTED DATE ANALYZED
Anthony Taylor TPH 8/8/97 8/8/97

QUALITY CONTROL DATA

<u>METHOD</u>	<u>ANALYST</u>	<u>MA'I</u>	RIX DAT	E EXTRACTED	DATE AN	ALYZED
BTEX 8020	Howard Hay	den Liqu	id		8/7/97	
SPIKE COMPOUND	SPIKE AMOUNT	% REC _1	% REC _2	% REC QC LIMIT	% VAR	% VAR QC LIMIT
Benzene	100 ppb	95.7	100	80-120	4.3	20.0
Toluene	100 ppb	98.1	103	80-120	4.8	20.0
Ethyl Benzene	100 ppb	102	109	80-120	6.4	20.0
Xylenes	300 ppb	103	105	80-120	1.9	20.0

Purchase Order/Chain Of Custody

Page / of 2

Anachem, Inc. 8 Prestige Circle, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9686

1 9-801 # 4 108-10							
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	City, State, Zip: A16., NM 87125	ns, an	City, State, Zip:	18740)	cir, sure, Zip: Farmington, (UM 8740)	e, Zip: Farn	City, State
	(45)	Box 25	Address: PO BOX 25547		2900	5 CR 6065	Address:
	7/0897619	RU-1997	Purchase Order #:		S	(N) 2	Сотрапу:
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					mentality		

Purchase Order/Chain Of Custody

Page Zof Z.

Anachem, Inc. 8 Prestige Circle, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9686

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		7	1 18/18 10:1	Jewa 8/6/27 3:15	Date Time									ivatin	Soi/	Matrix	6 Sampled By:	City, State: /U/)		Phone: 5053426464	Cly, State, Zip: A16, NM 87125	Address: PD BIX 25547	Purchase Order #: RN-1997	Bill To: (Buyer) Kharo
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Sample information is vital for proper login and reporting. This is a contract subject to the terms and conditions on the reverse side.

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X Samp & Moni		BOW NO:	Section	
X Samp de Moni	te Location for Wells			
Elgune No. 1	Site Map		Discharge Hobbs, NH	Plan DP-619

300 Broadway NE • Albuquerque, New Mexico 87102 (505) 242-6464 • Fax (505) 247-4941

May 22, 1997

Phyllis Bustamante Ground Water Section New Mexico Environment Department 1190 St. Francis Drive, PO Box 26110 Santa Fe, NM 87503

Re:

Landfarm Facility DP-619:

Quarterly Report -May 31, 1997

Dear Ms. Bustamante:

In accordance with the conditions set forth in the Approved Discharge Plan, DP-619, enclosed please find the May 31, 1997 quarterly report for Rhino's facility 1 mile northwest of Newman, New Mexico. This report serves to maintain a written record of the amount of contaminated soil and wastewater accepted for treatment and to ensure that no contaminant migration has occurred.

Table one (1) includes all soils and water accepted from February 1997 to April 30, 1997. One native soil sample was retrieved from each treatment area 3 feet below the natural soil surface and submitted to Anachem, Inc. for analysis. Figure No. 1 is a site map showing the location of the samples. One sample was submitted for each cell. The analytical results are summarized in Table two (2). A copy of the analytical report is submitted as Appendix A.

Please don't hesitate to call if you have any questions or require additional information.

Sincerely.

Daniele Berardelli

Rhino Environmental Services, Inc.

Attachments



TABLE 1 - SOIL AND WATER LOG



DISCHARGE PLAN DP-619 QUARTERLY REPORT May 31, 1997

Soil accepted from February 1997 to April 30, 1997

A total of 111.57 cubic yards (cy)of soil were received during this quarter. A list of these soils are shown in the table below. All soils were disced on a regular basis.

TABLE NO. 1

DATE	VOLUME	SOURCE	TYPE	SECTION-Staged
03-19-97 and 03-24-97	4.75 cy	South Plains Bank 600 S. College Ave. Levelland, Texas	Gasoline	Cell G-5
03-19-97	2.25 cy	Key Pump Station 300 S. College Levelland, Texas	Gasoline	Cell G-5
03-19-97	2.00 cy	Howdy's Convenience Store 212 College Ave. Levelland, New Mexico	Gasoline	Cell G-5
03-19-97	1.50 cy	Southwest Evans Corp. 501 S. College Ave. Levelland, Texas	Gasoline	Cell G-5
03-19-97	1.50 cy	G & C Contracting 501 N. College Ave. Levelland, Texas	Gasoline	Cell G-5
03-19-97	1.25 cy	Homer Johnson Bulk Terminal Hwy. 114 Levelland, Texas	Gasoline	Cell G-5
03-19-97	1.75 cy	McLain # 18 1210 Avenue H Levelland, Texas	Gasoline	Cell G-5
03-20-97	2.50 cy	Markham's Grocery 005 S. Monroe New Deal, Texas	Gasoline	Cell G-5
03-20-97	1.75 cy	Hunter Millworks, Inc. 5605 Brownfield Rd. Lubbock, Texas	Gasoline	Cell G-5
03-20-97	4.25 cy	S & S Shell 19 th & Quaker Lubbock, Texas	Gasoline	Cell G-5
03-20-97	1.75 cy	Preston Store #4 4701 Avenue H Lubbock, Texas	Gasoline	Cell G-5



RHINO ENVIRONMENTAL SERVICES, INC.

DATE	VOLUME	SOURCE	TYPE	SECTION-Staged
03-20-97	2.25 cy	Rip Griffins Truck Center 4609 Avenue A Lubbock, Texas	Gasoline	Cell G-5
03-21-97	10.64 cy	Socorro Nat'l Guard Armory Dept. Of Military Affairs Hwy. 60 West Socorro, New Mexico	Diesel	Cell 3
04-02-97	1.43 cy	Tumbleweed Petroleum 414 W. Third 2323 Tolliver Pecos, Texas	Gasoline	Cell G-5
04-05-97	14.0 cy	AA1 Auto Sales 7900 Central Ave. Albuquerque, New Mexico	Waste Oil	Cell 3
04-15-97	40.0 cy	Chevron 3200 Broadway SE Albuquerque, New Mexico	Diesel	Cell 3
04-18-97	5.67 cy	TNRCC 2303 Clovis Road Lubbock, Texas	Gasoline	Cell G-5
04-18-97	5.0 cy	TNRCC 1405 Avenue A Lubbock, Texas	Gasoline	Cell G-5
04-18-97	7.33 cy	TNRCC 7902 Cedar Avenue Lubbock, Texas	Gasoline	Cell G-5



TABLE 2 - SUMMARY OF ANALYTICAL RESULTS



Quarterly Soil Sampling:

One native soil sample was retrieved from the treatment area 3 feet below the natural soil surface. Figure No. 1 is a Site Map showing the location of the sample. Samples were submitted for analysis by EPA method 418.1 (TPH) and EPA method 8020 (benzene-BTEX). The analytical results are summarized in Table No. 1.

Table No. 1 Summary of Analytical Results from Native Soil Sampling				
Sample ID	Benzene ug/kg	TPH mg/kg		
*Cell 1				
Cell 2A	< 0.40	< 10		
Cell 2B		< 5.0		
Cell 3	< 0.40	< 10		
Cell 4	< 0.40	< 10		
Cell 5	< 0.40	< 10		
Cell 6		< 5.0		
Cell 7		< 5.0		

Copies of the analytical reports are shown in Appendix A. The results of the native soil testing were below detection limits for each cell, thereby demonstrating no contaminant migration into native soils.

No soil has been accepted into Cell 1. Cell 1 is currently inactive, therefore, no native soil sample was collected.



APPENDIX A - ANALYTICAL RESULTS



8 Prestige Circle, Suite 104 Allen, Texas 75002 972/727-9003 • FAX # 972/727-9686 • 1-800-966-1186

Customer Name:

Rhino Env.- Alb.

Date Received:

May 15, 1997 at 10:00:00

Date Reported: May 20, 1997 Submission #:

9705000154

Project:

6190597

SAMPLES The submission consisted of 7 samples with sample

I.D.'s shown in the attached data tables.

TESTS

The samples listed in the attached result pages were analyzed for: *BTEX/TPH (EPA 8020/MOD 8015 GAS-RANGE)

* TPH DIESEL-RANGE (MOD 8015)

* TS-TOTAL SOLIDS (EPA 160.3)

<u>Distribution Of Reports</u>

Submission #: 9705000154 lims

1-Mr. Jerry Dunlap of Rhino Env.- Alb. Ph. 505-242-6464 Fax 505-247-4941

Respectfully Submitted, Anachem, Inc.

Woward H. Hayden, B.S.

Chemist

C.E. Newton, Ph.D.

Chemist

NOTE: Submitted material will be retained for 60 days unless notified or consumed in analysis. Material determined to be hazardous will be returned or a \$20 disposal fee will be assessed. Our letters and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our prior written approval. Our letters and reports apply to the sample tested and/or inspected, and are not necessarily indicative of the qualitites of apparently identical or similar materials. 84470 to 84476 Page_ / of 5

Client Name: Rhinov.- Alb. Submission #: 9705000154 Project Name: 6190597 **Report Date: 05/20/97**

Client Sample #: 2A

Laboratory ID #: Sample Container: 84470 Order Type: Normal Matrix: Soil

Sampling Location:

Methanol Jar, Vial DP 619, HOBBS, NM

05/13/97 Sampling Date:

Temperature (Celcius):4

BTEX/TPH (EPA 8020/MOD 8015 GAS-RANGE)

Analyte	<u>Results</u>	Detection Limit
Benzene	< 0.40	0.40
Toluene	< 0.50	0.50
Ethyl Benzene	< 0.50	0.50
Xylenes	< 0.50	0.50
TPH	<10	10

BTEX results are reported in parts per million (ppm) in soil and parts per billion (ppb) in water and air. TPH results are reported in parts per million (ppm) in soil, air, and water.

TPH DIESEL-RANGE (MOD 8015)

Results(mg/kg) **Detection Limit** Diesel-Range Petroleum Hydrocarbons 5.0 < 5.0

TS-TOTAL SOLIDS (EPA 160.3)

Results(%) **Detection Limit** <u>Analyte</u> **Total Solids** 93.1

Client Sample #: 2B

84471 Order Type: Normal Matrix: Soil 40z EPA Approved Glass Jar\Aqua Lid Laboratory ID #: Sample Container: DP 619, HÔBBS, NM

Sampling Location: Sampling Date: 05/13/97

Temperature (Celcius):4

TPH DIESEL-RANGE (MOD 8015)

Results(mg/kg) Detection Limit Diesel-Range Petroleum Hydrocarbons < 5.0 5.0

Client Sample #: 3

84472 Order Type: Normal Matrix: Soil Laboratory ID #:

Methanol Jar, Vial Sample Container: Sampling Location: DP 619, HOBBS, NM Sampling Date: 05/13/97

Temperature (Celcius):4

BTEX/TPH (EPA 8020/MOD 8015 GAS-RANGE)

Analyte	Results	Detection Limit
Benzene	<0.40	0.40
Toluene	< 0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50
TPH	<10	10

BTEX results are reported in parts per million (ppm) in soil and parts per billion (ppb) in water and air. TPH results are reported in parts per million (ppm) in soil, air, and water.

TPH DIESEL-RANGE (MOD 8015)

Results(mg/kg) <u>Analyte</u> Detection Limit Diesel-Range Petroleum Hydrocarbons < 5.0 5.0

Client Name: Rhino Luv.- Alb. **Submission #:** 9705000154 Project Name: 6190597 **Report Date: 05/20/97**

TS-TOTAL SOLIDS (EPA 160.3)

Analyte Results(%) **Detection Limit Total Solids** 92.6

Client Sample #: 4

Laboratory ID #: Sample Container: 84473

Order Type: Normal Matrix: Soil Methanol Jar, Vial

Sampling Location: Sampling Date: Temperature (Celcius):4

DP 619, HOBBS, NM

05/13/97

BTEX/TPH (EPA 8020/MOD 8015 GAS-RANGE)

Analyte	Results	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	< 0.50	0.50
Xylenes	< 0.50	0.50
TPH	<10	10

BTEX results are reported in parts per million (ppm) in soil and parts per billion (ppb) in water and air. TPH results are reported in parts per million (ppm) in soil, air, and water.

TPH DIESEL-RANGE (MOD 8015)

Analyte Results(mg/kg) Detection Limit Diesel-Range Petroleum Hydrocarbons < 5.0 5.0

TS-TOTAL SOLIDS (EPA 160.3)

<u>Analyte</u> Results(%) **Detection Limit Total Solids** 91.3

Client Sample #: 5

Laboratory ID #: 84474 Order Type: Normal Matrix: Soil

Methanol Jar, Vial Sample Container: Sampling Location: Sampling Date: *DP 619, HOBBS, NM* 05/13/97

Temperature (Celcius):4

RTEX/TPH (EPA 8020/MOD 8015 GAS-RANGE)

Analyte	Results	Detection Limit
Benzene	<0.40	0.40
Toluene	< 0.50	0.50
Ethyl Benzene	< 0.50	0.50
Xylenes	< 0.50	0.50
TPH	<10	10

BTEX results are reported in parts per million (ppm) in soil and parts per billion (ppb) in water and air. TPH results are reported in parts per million (ppm) in soil, air, and water.

TS-TOTAL SOLIDS (EPA 160.3)

Detection Limit Analyte Results(%) Total Solids 92.3

Client Name: Rhino L.v.- Alb. **Submission #:** 9705000154 **Project Name:** 6190597 **Report Date: 05/20/97**

Client Sample #: 6

Laboratory ID #: Sample Container: Sampling Location: 84475 Order Type: Normal Matrix: Soil 40z EPA Approved Glass Jar\Aqua Lid

DP 619, HÔBBS, NM Sampling Date: 05/13/97

Temperature (Celcius):4

TPH DIESEL-RANGE (MOD 8015)

<u>Analyte</u> Diesel-Range Petroleum Hydrocarbons Results(mg/kg) Detection Limit < 5.0 5.0

Client Sample #: 7
Laboratory ID #:
Sample Container:
Sampling Location:

84476 Order Type: Normal Matrix: Soil 4oz EPA Approved Glass Jar\Aqua Lid DP 619, HOBBS, NM

05/13/97

Sampling Date: Temperature (Celcius):4

TPH DIESEL-RANGE (MOD 8015)

<u>Analyte</u> Results(mg/kg) **Detection Limit** Diesel-Range Petroleum Hydrocarbons < 5.0 5.0

Page 4 of 5

Report to: Rhino Environmental

Lab Number: 9705000154

Page <u>5</u> of <u>5</u>

QUALITY CONTROL DATA

Project: 6190597

ANALYTE	DATE <u>ANALYZED</u>	SPIKE (ppm)	STAND. <u>DEV.</u>	COEFF. OF VAR %	REC1/%	REC2/%
Total Solids	5/15/97		0.387	2.5		

Standard Deviation = (x1-x2)/1.414 Coefficient of Variability % = (S.D./Avg.) X 100 Recovery % = [(spiked-unspiked)/expected] X 100

QUALITY CONTROL DATA

<u>METHOD</u>	ANALYST		MATI	RIX	DATE	EXTRACTEI	DATE DATE	ANALYZED
BTEX/TPH 8020/8015	Howard Hay	den	Solid		5/16/9	7	5/	16/97
SPIKE COMPOUND	SPIKE AMOUNT	% RE _1	C	% RE	C	% REC QC LIMIT	% VAR.	% VAR QC <u>LIMIT</u>
Benzene	100 ppb	98.5		100		80-120	1.5	20.0
Toluene	100 ppb	105		106		80-120	0.94	20.0
Ethyl Benzene	100 ppb	105		106		80-120	0.94	20.0
Xylenes	300 ppb	99.4	,	96.6		80-120	2.8	20.0

QUALITY CONTROL DATA

METHOD	ANALISI	WATI	<u> </u>	ATE EXTRACTEL	<u>DAT</u>	E ANALYZED
8015 Mod.	Dennis Shaw	Solid	5/	19/97		5/19/97
SPIKE COMPOUND	SPIKE AMOUNT	% REC _1	% REC _2	% REC QC LIMIT	% VAR.	% VAR QC <u>LIMIT</u>
Diesel Fuel	6085 ppm	94.5	97.6	20-150	3.2	30

Chain Of Custody/Order Form

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EX 8020 8015 GR	Anachem Lab# Client Sample ID Matrix
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	Phone: (535) - 9620 Fax: (535) - 9627 Phone (505)
5	10468 MIN, MOD
Address: PO BOX 25547	290
Purchase Order #: 6190597	
Analysis	Report To: Daniele Berartulli Bill To: Khino

008 KEV 10/94

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Sample information is vital for proper login and reporting. After 65 days, a 3.5% late fee will be assessed for all unpaid submissions.

Chain Of Custody/Order Form Anachem.Inc. 8 Prestige Circle, Suit

Anachem, Inc. 8 Prestige Circle, Suite 104, Allen, Tx 75002 Phone: 214-727-9003 Fax: 214-727-9686

Date Due: Project Location: Project Name: 619059 Phone: (505) City, State, Zip: Farmington, Nom : C7401 Address: 5 CR 6065 Company: K hund Report To: Relinguished By Anachem Labe Daniele Berordi 15.00 CO 06 S . √ 20 0 NC Client Sample ID Rush: **9** Received By **50%** -9627 100% City, State: HUNDS Sampled By: <u>V</u> City, State, Zip: 1316. /UM 87125 Purchase Order #: 619059 Date Phone (505)242-6464 Fex (US)247-4941 Address: PO BOX 25547 Bill To: 1/2 harro Matrix Time 5-13/7:45 5-13/1 5-13/8-05 15-13/7:50 5-18/6-15 TO VOY 5-13/-7-20 Se: 200 Date/Time Delivery Analyst Presry/Temp O tare. C Sample Notes Anachem Submission #: In the event that Anachem determines that a sample is hazardous, the client agrees to: Pay For Sample Disposal Accept Returned Sample 2020 BIE X × × X 015 GRO \times Х X X X × × Analysis

008 REV 10/94

Sample information is vital for proper login and reporting. After 65 days, a 3.5% late fee will be assessed for all unpaid submissions

Page of



FIGURE 1 - SITE MAP

S. Complete

COMPUTATION SHEET RHINO ENVIRONMENTAL SERVICES ALBUQUERQUE, NEW MEXICO

DATE: PAGE OF

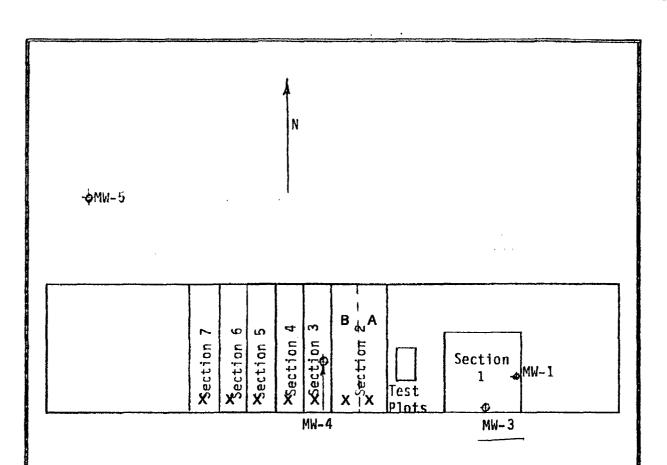
JOB NAME:

DESCRIPTION:

JOB NO:

BY:

CHK'D:



X Sample Location Monitor Wells

Figure No. 1

Site Map

Discharge Plan DP-619

Hobbs, NM



300 Broadway NE • Albuquerque, New Mexico 87102 (505) 242-6464 • Fax (505) 247-4941



April 8, 1997

Phyllis Bustamante
Ground Water Section
Environmental Department
1190 St. Francis Drive, PO Box 26110
Santa Fe, NM 87503

Re:

Landfarm Facility DP-619:

Quarterly Report - February 28, 1997

Dear Ms. Bustamante:

Recently, Rhino requested that I resume some of my former duties, one of which is to oversee the landfarms. I started out by reviewing the last quarterly reports and found one mistake concerning the soil log for DP-619.

Manifests for soils originating from property owned by Mr. Don Elwell, located at 516 Camino del Pueblo, Bernalillo, New Mexico, were accidently overlooked. From 9-12-96 to 9-14-96, 217.9 cubic yards were accepted into cell 3 of DP-619. Soil originated from an underground storage tank and was analyzed for BTEX and TPH. Results showed concentrations were below detection limits.

This addition changes the total soils accepted for that quarter to 843.65 cubic yards.

Rhino apologizes for any inconvenience this may cause. Please let me know if you have any questions.

Sincerely

Daniele Berardelli Landfarm Manager



300 Broadway NE • Albuquerque, New Mexico 87102 (505) 242-6464 • Fax (505) 247-4941 February 28, 1997

Phyllis Bustamante
Ground Water Section
Environmental Department
1190 St. Francis Drive, PO Box 26110
Santa Fe, NM 87503

Re:

Land farm Facility DP-619:

Quarterly Report (January 31, 1997)

Dear Ms. Bustamante:

In accordance with the conditions set forth in the Approved Discharge Plan, DP-619, enclosed please find the February 28, 1997 Quarterly Report for Rhino's Otero Facility in Newman, New Mexico. This report serves to maintain a written record of the amount of contaminated soil and wastewater accepted for treatment.

One native soil sample was retrieved from each treatment area, three feet below the natural soil surface. In addition one sample was retrieved from monitor well #3. Monitor well #3 is the only well on site with water in the well therefore; it is the only well sampled. All samples where then submitted for analysis to Cardinal laboratories in Hobbs NM.

Figure No. 1 is a site map showing the location of the samples. The analytical results are summarized in Table (2). A copy of the analytical report is submitted as Appendix A. The report shows all results to be below detection limits, thereby ensuring that native soils and ground water are clean and no migration has occurred at the site.

In addition field analysis determined that cells 1&5 below regulatory limits. Therefore, pursuant to condition #7 of Specific Requirements of the DP-619 permit, soils were removed from the treatment area & used elsewhere on-site.

Please don't hesitate to call if you have any questions or require additional information.

Sincerely,

Joseph R. Menicucci Rhino Environmental Services, Inc.

Attachments



DISCHARGE PLAN DP-619 QUARTERLY REPORT January 31, 1997

Soils accepted November 1, 1996 to January 31, 1997 total of 426.80 cubic yards of soils and gallons were received during this quarter. A list of those are shown in the table below. All soils were disced weekly.

DISCHARGE PLAN DP-619 SOIL AND WATER LOG QUARTER REPORT: November 1, 1996 THRU January 31, 1996

DATE	VOLUME	SOURCE	TYPE	Section
1-10-97	8CY	Eddins Walcher Co. 5002 SouthEast Drive @50th Lubbock, TX (915) 570-4088	soil w\gas	CELL-3
11-05-96to 11-15-96	398.80CY	KAFB 377 ABW/EMC KAFB NM 87124	soil w\gas and diesel	CELL-3
1-25-97	2CY	CIRCLE-K #210 712 MAIN ST. ARTESIA, NM	SOIL GAS	CELL-3
1-25-97	15CY	BJ SERVICES ARTESIA	soil w/waste oil	CELL-3
1-3-97	3CY	Greentree Country Club 4400 Greentree Blvd Midland TX 79707	Soil W/Gas	CELL-3





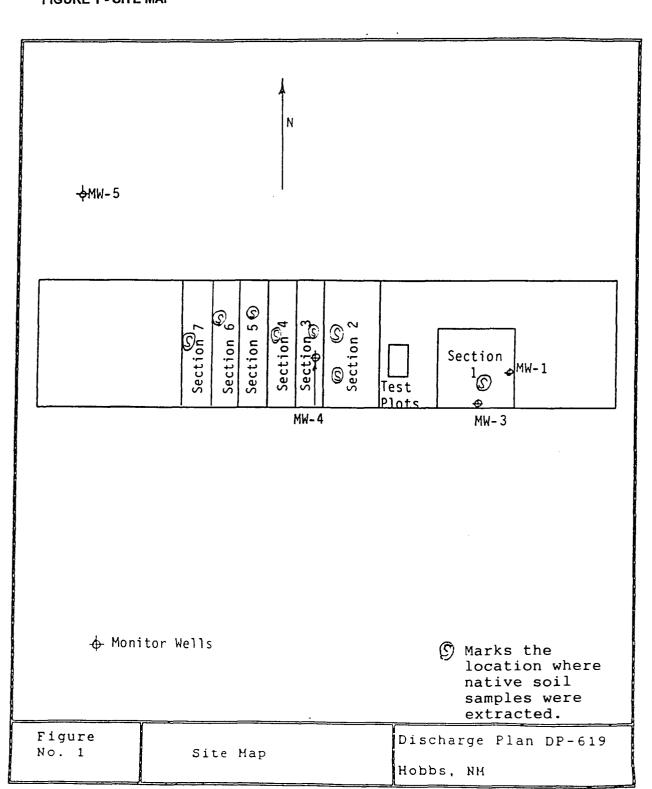
APPENDIX A - ANALYTICAL RESULTS

Quarterly Soil Sampling:

One native soil sample was retrieved from the treatment area 3 feet below the natural soil surface. Figure No. 1 is a Site Map showing the location of the sample. Samples were submitted for analysis by EPA method 418.1 (TPH) and EPA method 8020 (benzene-BTEX). The analytical results are summarized in Table No. 1.

Table No. 1 Summary of Analytical Results from Native Soil Sampling					
Sample ID	Benzene mg/kg	TPH mg/kg			
Cell 1	<0.002	< 10			
Cell 2A	<0.002	< 10			
Cell 2B		< 10			
Cell 3		< 10			
Cell 4	<0.002	< 10			
Cell 5	<0.002	< 10			
Cell 6	· l	<10			
Cell 7		< 11			
MW #3	<0.002				

Copies of the analytical reports are shown in Appendix A. The results of the native soil and ground water testing were below detection limits, thereby demonstrating no contaminant migration has occured.



November 29, 1996

Phyllis Bustamante
Ground Water Section
Environmental Department
1190 St. Francis Drive, PO Box 26110
Santa Fe, NM 87503

Re:

Land farm Facility DP-619:

Quarterly Report (November 30, 1996)

Dear Ms. Bustamante:

In accordance with the conditions set forth in the Approved Discharge Plan, DP-619, enclosed please find the November 30, 1996 Quarterly Report for Rhino's Otero Facility in Newman, New Mexico. This report serves to maintain a written record of the amount of contaminated soil and wastewater accepted for treatment and to ensure that no contaminant migration has occurred.

As we discussed, the analytical results of native soil samples will be forthcoming. As soon as the report becomes available, Rhino will immediately send it to your attention.

Please don't hesitate to call if you have any questions or require additional information.

Sincerely,

Daniele Berardelli Rhino Environmental Services, Inc.

Attachments

DISCHARGE PLAN DP-619 QUARTERLY REPORT November 30, 1996

Soils accepted August 1, 1996 to October 31, 1996. A total of 625.75 cubic yards of soils and 5,225 gallons were received during this quarter. A list of those are shown in the table below. All soils were disced weekly.

DISCHARGE PLAN DP-619 SOIL AND WATER LOG QUARTER REPORT: August 1, 1996 THRU October 31, 1996

			I	
DATE	VOLUME	SOURCE	TYPE	Section
08-02-96	6cy	National Truck Stop 2400 S. Loop 250 Midland, TX	Diesel & Gas	D6
08-02-96	4cy	Big Johns 8500 W. 16th Odessa, TX	Diesel & Gas	D6
08-02-96	4cy	7-11 #57100 800 Country RD. West Odessa, TX	Gas	G5
8-27-96	5,225 gal	Kirtland AFB Tanks 1,2,123,133,146 - 149 KAFB, NM	Gas & Diesel	North Tank
09-16-96	50 cy	BJ Services Snyder TX.	Waste oil	3
10-07-96 to 10-9- 96	353 cy	BJ Services 717 NW Loop 143 Perryton TX. 79070	Waste oil	3
10-08-96 to 10-9- 96	94 cy	B.J. Services 717 NW Loop 143 Perryton TX 79070	Diesel & Gas	D6
10-14-96	42.00cy	Leland Schook Andrews Hwy Seminole, TX	Diesel	3
10-14-96	4.00cy	SW Energy Distributors 317 N. Dixie Blvd. Midland TX	Gas	G5
10-14-96	4.00cy	SW Energy Distributors 2210 W. 2nd ST. Odessa, TX	Gas	G5

10-14-96	0.5cy	Eddins Walcher Andrews HWY	Diesel	D6
		Seminole TX		

DISCHARGE PLAN DP-619 SOIL AND WATER LOG QUARTER REPORT: August 1, 1996 THRU October 31, 1996

DATE	VOLUME	SOURCE	TYPE	Section
10-24 -96 to 10- 28-96	67.5cy	KAFB 377 ABW\EMC,2000 Wyoming KAFB, NM	Diesel	3
10-31-96	6 cy	Southwest Convenience, 7- 11 3402 University Lubbock, TX	Gas	G5
10-31-96	4.6 cy	United Parcel Service 515 East 44 th St. Lubbock, TX	Diesel & Gas	D6

QUARTERLY SOIL SAMPLING:

One native soil sample was retrieved from the treatment area 3 feet below the natural soil surface. Figure No. 1 is a Site Map showing the location of the sample. Samples were submitted for analysis by EPA method 418.1 for TPH and EPA method 8020 for BTEX. The analytical results are summarized in Table No. 1

Summa	Table No. 1 Summary of Analytical Results from Native Soil Sampling						
Sample ID	Benzene mg/kg	TPH mg/kg					
S-1		< 20					
S-2A	< 0.025						
S-2B		< 20					
S-3		< 20					
S-4		< 20					
S-5	< 0.025						
S-6		< 20					
S-7		< 20					

Copies of the analytical reports are shown in Appendix A. The results of the native soil testing were all below detection limits showing no contamination of native soils.

PECEIVED
DEC 18 1996



(505) 242-6464 • Fax (505) 247-4941

December 17, 1996

Phyllis Bustamante **Ground Water Section Environmental Department** 1190 St. Francis Drive, PO Box 26110 Santa Fe, NM 87503

Re:

Land farm Facility DP-619:

Quarterly Report (November 30, 1996)

Dear Ms. Bustamante:

In accordance with the conditions set forth in the Approved Discharge Plan, DP-619, enclosed please find the analytical results of native soil samples collected for the fourth quarter. All results are below detection limits, thereby demonstrating that no vertical migration has occurred.

Please don't hesitate to call if you have any questions or require additional information.

Sincerely

Daniele Berardelli

Rhino Environmental Services, Inc.

Attachments

Post-it* Fax Note 7	671 Day	3 B	98	# of page	÷s►	
To Daniele Berai	rdcl li Fre	<u>"]/1</u>	Clie	\mathcal{M}	aran	rille
Co./Dept. Rhine	Co	NM	D/C	JW(28	
Phone # 800-499-8	393 Ph	one#	505	B27	-06	52
Fax #205 598-96	27 Fa	×# E	505	827	-29	65



AEN I.D.

RECEIVED DEC 1 3 1996

612310

December 10, 1996

RHINO ENVIRONMENTAL SERVICES P.O. BOX 25547 ALBUQUERQUE

Project Name

DP6191196

Project Number

(none)

Attention:

DANIELE BERARDELLI

On 12/5/96 American Environmental Network (NM), Inc. (ADHS License No. AZ0015), 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.

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

Kimberly D. McNeill Project Manager

MR: mt

Enclosure

H. Mitchell Rubenstein, Ph. D.

General Manager

CLIENT	: RHINO ENVIRONMENTAL SERVICES	AEN I.D.	: 612310
PROJECT#	: (nonc)	DATE RECEIVED	: 12/5/96
PROJECT NAME	; DP6191196	REPORT DATE	: 12/10/96
AEN			DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	S-1	SOIL	11/29/96
02	S-2A	SOIL	11/29/96
03	S-2B	SOIL	11/29/96
04	S-3	SOIL	11/29/96
05	S-4	SOIL	11/29/96
06	S-5	SOIL	11/29/96
07	\$-6	SOIL	11/29/96
08	\$-7	SOIL.	11/29/96

GENERAL CHEMISTRY RESULTS

418.1

CLIENT : RHINO ENVIRONMENTAL SERVICES AEN I.D. : 612310 PROJECT# : 12/5/96 DATE RECEIVED **PROJECT NAME** : DP6191196

SAMPLE			DATE	DATE	DATE	DIL.
ID.#	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	\$-1	NON-AQ	11/29/96	12/9/96	12/9/96	1
03	S-2B	NON-AQ	11/29/96	12/9/96	12/9/96	1
04	\$-3	NON-AQ	11/29/96	12/9/96	12/9/96	1
PARAME	ETER	DET. LIMIT	UNITS	01	03	04
PETROL	EUM HYDROCARBONS, IR	20	MG/KG	< 20	< 20	< 20

CHEMIST NOTES: N/A

FAX NO. 505 8272965

P. 05

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS

418.1

CLIENT

: RHINO ENVIRONMENTAL SERVICES

AEN I.D.

: 612310

PROJECT#

DATE RECEIVED

: 12/5/96

PROJECT NAME

: DP6191196

SAMPLE				DATE	DATE	DATE	DIL.
ID.#	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
05	S-4		NON-AQ	11/29/96	12/9/96	12/9/96	1
07	\$-6		NON-AQ'	11/29/96	12/9/96	12/9/96	1
08	S-7		NON AQ	11/29/96	12/9/96	12/9/96	1
PARAME	TER		DET. LIMIT	UNITS	05	07	80
PETROL	EUM HYDROCARBON	IS, IR	20	MG/KG	< 20	< 20	< 20

CHEMIST NOTES:

GENERAL CHEMISTRY - REAGENT BLANK

418.1

CLIENT

: RHINO ENVIRONMENTAL SERVICES

AEN I.D. SAMPLE MATRIX

612310 : NON-AC

PROJECT# PROJECT NAME

: DP6191196

SAMPLE

UNITS

: MG/KG

PARAMETER

AEN I.D.

RESULT

PETROLEUM HYDROCARBONS

MAR-13-98 FRI 11:20

120996

<20

CHEMIST NOTES:

N/A

GENERAL CHEMISTRY - QUALITY CONTROL

418.1

CLIENT : RHINO ENVIRONMENTAL SERVICES PROJECT# ; (none)

MAR-13-98 FRI 11:20

AEN I.D.

612310

PROJECT NAME

SAMPLE MATRIX UNITS

NON-AQ

: DP6191196

DUP. % MG/KG

PARAMETER PETROLEUM HYDROCARBONS

AEN I.D.

612310-01

RESULT RESULT

<20

RPD NA

SPIKED SPIKE SAMPLE CONC. 151 150

REC

101%

CHEMIST NOTES: N/A

(Spike Sample Result - Sample Result)

% Recovery =

X 100

SAMPLE

<20

Spike Concentration

(Sample Result - Duplicate Result)

RPD (Relative Percent Difference) =

--- X 100

Average Result

GAS CHROMOTOGRAPHY RESULTS

TEST

: BTEX, MTBE (EPA 8020) METHANOL PRESERVATION

CLIENT

: RHINO ENVIRONMENTAL SERVICES

AEN I.D.: 612310

PROJECT# PROJECT NAME : (none)

: DP6191196

SAMPLE				DATE	DATE	DATE	DIL.
ID.#	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
02	S-2A		NON-AQ	11/29/96	NA	12/5/96	1
06	S-5		NON-AQ	11/29/96	NA	12/5/96	1
PARAMETER	२	DET. LIMIT	UN	UTS	02	06	
BENZENE		0.025	MG	/KG	< 0.025	< 0,025	
TOLUENE		0.025	бМ	/KG	< 0.025	< 0.025	
ETHYLBENZ	ENE	0.025	MG	KG	< 0.025	< 0.025	
TOTAL XYLE	ENES	0.025	MG	i/KG	< 0.025	< 0.025	
METHYL.1.BI	UTYL ETHER	0_13	MG	i/KG	< 0.13	< 0.13	
SURROGAT	E:						•
BROMOFLU	OROBENZENE (%)			109	105	
SURROGAT	E LIMITS	(80 - 120)					
DRY WEIGH	IT (%)				96	95	

CHEMIST NOTES:

N/A

GAS CHROMOTOGRAPHY RESULTS REAGENT BLANK

TEST : BTEX, MTBE (EPA 8020) AEN I.D. 612310 BLANK I. D. : 120596 DATE EXRACTED NA : RHINO ENVIRONMENTAL SERVICES DATE ANALYZED CLIENT 12/5/96 PROJECT# : (none) SAMPLE MATRIX NON-AQ : DP6191196 PROJECT NAME **UNITS** PARAMETER BENZENE MG/KG <0.025 TOLUENE MG/KG < 0.025 <0.025 MG/KG ETHYLBENZENE <0.025 MG/KG TOTAL XYLENES MG/KG < 0.13 METHYL-t-BUTYL ETHER SURROGATE: 101

BROMOFLUOROBENZENE (%)

SURROGATE LIMITS:

(80 - 120)

CHEMIST NOTES:

N/A

P. 10

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY QUALITY CONTROL

MSMSD

TEST

: BTEX, MTBE (EPA 8020)

MSMSD#

: 612304-03

AEN I.D.

: 612310

CLIENT

; RHINO ENVIRONMENTAL SERVICES DATE EXPACTED

DATE ANALYZED

: NA 12/5/96

PROJECT#

: (none)

SAMPLE MATRIX

: FP

PROJECT NAME

: DP6191196

UNITS

: MG/KG

					•				
	SAMPLE	CONC	SPIKED	%	DUP	DUP		REC	RPD
PARAMETER	RESULT	SPIKE	SAMPI F	REC	SPIKE	% REC	RPD	LIMITS	LIMITS
BENZENE	<0.025	0,50	0.55	110	0.56	112	2	(80 - 120)	20
TOLUENE	<0.025	0.50	0.55	110	0.55	110	0	(80 - 120)	20
ETHYLBENZENE	< 0.025	0.50	0.54	108	0.54	108	0	(80 - 120)	20
TOTAL XYLENES	< 0.025	1.50	1,65	110	1.66	111	1	(80 - 120)	20
METHYL-1-BUTYL ETHER	<0.13	1,00	0.96	96	1.02	102	6	(70 - 133)	20

CHEMIST NOTES:

NA

(Spike Sample Result - Sample Result)

% Recovery =

----- X 100

Spike Concentration

(Sample Result - Duplicate Result)

RPD (Relative Percent Difference) =

Average Result

MENDS ASIN ROLL

Chain Of Custody/Order Form

Fax: 214.727.9686

ission #:	Anachem Submission #						
Pay For Sample Disposal Accept Returned Sample X	Pay For Accept II		a hours	11:30	afin College W	hard	A STATE OF THE PROPERTY OF THE
in the event that Anachem determines that a sample is hazardous, the client agrees to:	in the event that hazardous, the c	Analyst	Delivery	llate Time	Received By	shed By	Helingwished By
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	Sample Notes L & 10	Preseding	Date/Time	Metrix	ID	Client Sample ID	Anaichem Lab
)-2(18.				Sampled By:	Rush: 0% 50% 100% Sen		Date Due:
. [NM	City,State:	acetion: Hobbs	Project Location:
TP						1161919	Project Name:
E)		Fax:		Рімпе:	Fax: 347. 4941	248-6464 FA	i pone:
				City, State, Zip:	•••••••••••••••••••••••••••••••••••••••	(Bly, State, Zip: Alb., NM 87125	(My, Sta
				Address: Same		1	Address:
61070		9	DP-619	Purchase Order #:	•	"Rhino Env. Sives	Company:
Analysis			70	BILLTO: Rhund		"Daniela Berardelli	Report To:
				STOR, IN TOOM	o recould circle, burke ive, min	Amachem, arestige	Migra

Sample Information is vital for proper login and reporting. After 65 days, a 3.5% late fee will be assessed for all unpaid submissions.



August 29, 1996

Phyllis Bustamante
Ground Water Section
Environmental Department
1190 St. Francis Drive, PO Box 26110
Santa Fe, NM 87503

Re:

Land farm Facility DP-619:

Quarterly Report (August 31, 1996)

Dear Ms. Bustamante:

In accordance with the conditions set forth in the Approved Discharge Plan, DP-619, enclosed please find the August 31, 1996 Quarterly Report for Rhino's Otero Facility in Newman, New Mexico. This report serves to maintain a written record of the amount of contaminated soil and wastewater accepted for treatment and to ensure that no contaminant migration has occurred.

Table one (1) includes all soils and water accepted from May 19, 1996 to July 31, 1996. One native soil sample was retrieved from each treatment area 3 feet below the natural soil surface and one water sample was collected from monitor well-3. The samples were then submitted to American Environmental Network, Inc. for analysis. Figure No. 1 is a site map showing the location of the samples. The analytical results are summarized in Table two (2). A copy of the analytical report is submitted as Appendix A. The report shows all results to be below detection limits, thereby ensuring that native soils and ground water are clean and no migration has occurred at the site.

No report was submitted for May 1996. During this period, Rhino was in the process of moving most of the Hobbs office to our Albuquerque location. Rhino became somewhat disorganized during the confusion and we apologize for this mistake. Samples were collected June 11, 1996. I am submitting a soil/water log from February to July 31, 1996. Rhino hopes this report may be accepted as fulfilling requirements up to date.

Please don't hesitate to call if you have any questions or require additional information.

Sincerely

Daniele Berardelli

Rhino Environmental Services, Inc.

Attachments



TABLE 1 - SOIL AND WATER LOG

DISCHARGE PLAN DP-619 QUARTERLY REPORT August 31, 1996

1) Soils accepted February 1, 1996 to July 31, 1996

A total of 1,337.97 cubic yards of soils were received during this quarter. A list of those soils are shown in the table below. All soils were disked weekly.

DISCHARGE PLAN DP-619 SOIL AND WATER LOG QUARTER REPORT: February 1, 1996 THRU July 31, 1996

DATE	VOLUME	SOURCE	TYPE	Section
2-27-96	22.3 tons	Wichita Coca-Cola Bottling 1512 Lamar Wichita Falls, TX	Diesel	D-6
3-27-96 3-28-96	12 cy 12 cy	Ryder Truck Rental 2225 First St NW Alb., NM	Gas	G-5
3-28-96	75 cy	Circle K #279 Aragon & Main Belen, NM	Gas	G-5
4-16-96	0.67 cy	City of Alb., Leavitt Res. #2 90th & San Ignacio Alb., NM	Gas	G-5
4-30-96	6 cy	Griffin Oil Co., Orlando's Texaco, 322 1st Street Brownfield, TX	Diesel	D-6
5-28-96	22 cy	Pueblo Office of Env. Protect. San Felipe Pueblo NM	Waste Oil	U-7
3-10-96 to 5-10-96	1040.76 tons	Chevron # 75953 9663 Montgomery Alb., NM	Gas	G-5
6-3-96	140 cy	SW Convenience, 7 Eleven 800 S. Gregg Big Spring, TX	Gas	G-5
6-24-96 to 6-27-96	224 cy	BJ Services 702 S. 14th Street Brownfield, TX	Diesel	D-6
7-11-96	0.5 cy	SW Convenience, 7 Eleven # 20934, 300 Owen Big Springs, TX	Gas	G-5
7-19-96	14 cy	SW Convenience, 7 Eleven #12388, 2104 4th Street Lubbock, TX	Gas	G-5

	DISCHARGE PLAN DP-619 SOIL AND WATER LOG QUARTER REPORT: February 1, 1996 THRU July 31, 1996							
7-29-96	1 cy	SW, 7 Eleven # 29467 Odessa, TX	Gas	G-5				
7-29-96	1 cy	SW, 7 Eleven # 29466, 600 S. Grandview Odessa, TX	Gas	G-5				
7-29-96	1.5 cy	SW, 7 Eleven #25043 2626 Grandview Odessa, TX	Gas	G-5				
7-29-96	5.5 cy	SW, 7 Eleven #29479 2712 E. 8th Odessa, TX	Gas	G-5				
7-29-96	5 cy	SW, 7 Eleven #29457 4325 Andrews Hwy. Midland, TX	Gas	G-5				



APPENDIX A - ANALYTICAL RESULTS



SEMI-ANNUAL MONITOR WELL TESTING:

All monitor wells were checked for water on 6-11-96. Monitor well MW-3 contained water. Figure No. 1 is a Site Map showing the locations of the well. The well was sampled and tested for BTEX. The results are summarized in Table No. 1. A copy of the analytical reports are shown in Appendix A.

Table No. 1 Summary of Analytical Results						
Sample ID	Benzene ug/l	Toluene ug/i	Ethyl-Benzene ug/l	Total Xylene ug/l	MTBE ug/l	ļ
MW-3	<0.5	<0.5	<0.5	<0.5	<2.5	



QUARTERLY SOIL SAMPLING:

One native soil sample was retrieved from the treatment area 3 feet below the natural soil surface. Figure No. 1 is a Site Map showing the location of the sample. One sample was submitted for analysis by modified EPA 8015 gasoline range and diesel range and EPA 8020 benzene. The analytical results are summarized in Table No. 1.

Table No. 1 Summary of Analytical Results from Native Soil Sampling					
Sample ID	Benzene mg/kg	TPH mg/kg			
S-1		< 20			
S-2A	< 0.025				
S-2B		< 20			
S-3		< 20			
S-4		< 20			
S-5	< 0.025				
S-6		< 20			
S-7		< 20			

Copies of the analytical reports are shown in Appendix A. The results of the native soil testing were all below detection limits showing no contamination of native soils.

AEN I.D. 606317

June 13, 1996

(T

Rhino Environmental P.O. Box 2327 Hobbs, NM 88240

Project Name/Number: DP-619 (NONE)

• '};

Attention: Royce Cooper

On 06/12/96, American Environmental Network (NM), Inc., (ADHS License No. AZ0015) received a request to analyze non-aqueous and 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.

Kimberly D. McNeill Project Manager

MR:ft

Enclosure

H. Mitchell Rubenstein, Ph.D. General Manager

CLIENT

: RHINO ENVIRONMENTAL

DATE RECEIVED

:06/12/96

PROJECT #

: (NONE)

PROJECT NAME : DP-619

REPORT DATE

:06/13/96

AEN ID: 606317

AEN #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	S-1	NON-AQ	06/10/96
02	S-2A	NON-AQ	06/10/96
03	S-2B	NON-AQ	06/10/96
04	S-3	NON-AQ	06/10/96
05	S-4	NON-AQ	06/10/96
06	S - 5	NON-AQ	06/10/96
07	S-6	NON-AQ	06/10/96
08	S-7	NON-AQ	06/10/96
09	MW-3	AQUEOUS	06/10/96

---TOTALS---

MATRIX #SAMPLES
NON-AQ 8
AQUEOUS 1

AEN STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX, MTBE (EPA 8020)

CLIENT

: RHINO ENVIRONMENTAL AEN I.D.: 606317

PROJECT #

: (NONE)

PROJECT NAME : DP-619

SAMPLE ID. # CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
09 MW-3	AQUEOUS	06/10/96	NA	06/12/96	1
PARAMETER		UNITS	09		
BENZENE		UG/L	<0.5		
TOLUENE	OLUENE UG		<0.5		
ETHYLBENZENE		UG/L	<0.5		
TOTAL XYLENES	UG/L		UG/L <0.5		
METHYL-t-BUTYL ETHER		UG/L	<2.5		

SURROGATE:

BROMOFLUOROBENZENE (%)

104

American Environments, Let and Let

GAS CHROMATOGRAPHY RESULTS

REAGENT BLANK

TEST : BTEX, MTBE (EPA 8020) AEN I.D. : 606317
BLANK I.D. : 061296 MATRIX : AQUEOUS

CLIENT : RHINO ENVIRONMENTAL DATE EXTRACTED : NA

PROJECT # : (NONE) DATE ANALYZED : 06/12/96

PROJECT NAME : DP-619 DILUTION FACTOR : 1

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5
METHYL-t-BUTYL ETHER	UG/L	<2.5

SURROGATE:

BROMOFLUOROBENZENE (%) 111

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

TEST : BTEX, MTBE (EPA 8020)

MSMSD # : 60631709 AEN I.D. : 606317

CLIENT : RHINO ENVIRONMENTAL DATE EXTRACTED : NA

PROJECT # : (NONE) DATE ANALYZED : 06/12/96

PROJECT NAME: DP-619 SAMPLE MATRIX : AQUEOUS

REF. I.D. : 60631709 UNITS : UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD
BENZENE	<0.5	10.0	10.2	102	10.3	103	1
TOLUENE	<0.5	10.0	10.2	102	10.1	101	1
ETHYLBENZENE	<0.5	10.0	10.1	101	10.1	101	0
TOTAL XYLENES	<0.5	30.0	31.0	103	30.6	102	1
METHYL-t-BUTYL ETHER	<2.5	20.0	22.0	110	22.2	111	1

(Sample Result - Duplicate Result)

RPD (Relative Percent Difference) = ------ X 100

Average Result

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX, MTBE (EPA 8020)
CLIENT : RHINO ENVIRONMENTAL AEN I.D.: 606317

PROJECT # : (NONE)

PROJECT NAME : DP-619

Jones Sp. Real Spine St. San Sec. S.

SAMPLE ID. # CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
02 S-2A	NON-AQ	06/10/96	06/12/96	06/12/96	1
06 S-5	NON-AQ	06/10/96	06/12/96	06/12/96	1
PARAMETER		UNITS	02	06	
BENZENE		MG/KG	<0.025	<0.025	
TOLUENE		MG/KG	<0.025	<0.025	
ETHYLBENZENE		MG/KG	<0.025	<0.025	
TOTAL XYLENES		MG/KG	<0.025	<0.025	
METHYL-t-BUTYL ETHER		MG/KG	<0.13	<0.13	
SURROGATE:					

BROMOFLUOROBENZENE (%)

100 99

GAS CHROMATOGRAPHY RESULTS

REAGENT BLANK

: BTEX, MTBE (EPA 8020) TEST

AEN I.D.

: 606317

BLANK I.D.

: 061296

MATRIX

: NON-AQ

CLIENT

: RHINO ENVIRONMENTAL

DATE EXTRACTED : 06/12/96

PROJECT # : (NONE)

DATE ANALYZED : 06/12/96

PROJECT NAME : DP-619

DILUTION FACTOR: 1

PARAMETER	UNITS	
BENZENE	MG/KG	<0.025
TOLUENE	MG/KG	<0.025
ETHYLBENZENE	MG/KG	<0.025
TOTAL XYLENES	MG/KG	<0.025
METHYL-t-BUTYL ETHER	MG/KG	<0.13

SURROGATE:

BROMOFLUOROBENZENE (%)

100

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

TEST : BTEX, MTBE (EPA 8020)

Commence Parties assert Mario William

MSMSD # : 60631706 AEN I.D. : 606317

CLIENT : RHINO ENVIRONMENTAL DATE EXTRACTED : 06/12/96

PROJECT # : (NONE) DATE ANALYZED : 06/12/96

PROJECT NAME: DP-619 SAMPLE MATRIX: NON-AQ

REF. I.D. : 60631706 UNITS : MG/KG

	SAMPLE	CONC	SPIKED	%	DUP	DUP	
PARAMETER	RESULT	SPIKE	SAMPLE	REC	SPIKE	% REC	RPD
BENZENE	<0.025	1.00	0.95	95	0.95	95	0
TOLUENE	<0.025	1.00	0.95	95	0.95	95	0
ETHYLBENZENE	<0.025	1.00	0.97	97	0.97	97	0
TOTAL XYLENES	<0.025	3.00	2.91	97	2.91	97	0
METHYL-t-BUTYL ETHER	<0.13	2.00	2.05	103	2.03	102	1

(Sample Result - Duplicate Result)

RPD (Relative Percent Difference) = ----- X 100

Average Result

American Environmenta New West

GENERAL CHEMISTRY RESULTS

CLIENT

: RHINO ENVIRONMENTAL

AEN I.D.

: 606317

PROJECT #

: (NONE)

DATE RECEIVED

: 06/12/96

PROJECT NAME

: DP-619

DATE ANALYZED

: 06/12/96

SAMPLE MATRIX

: NON-AQ

PARAMETER		UNITS	01	03	04	05
PETROLEUM HYDROCARBONS,	IR	MG/KG	<20	<20	<20	<20

American Furthernoons Serieork, Inc

GENERAL CHEMISTRY RESULTS

CLIENT

: RHINO ENVIRONMENTAL

AEN I.D.

: 606317

PROJECT #

: (NONE)

DATE RECEIVED

: 06/12/96

PROJECT NAME

: DP-619

DATE ANALYZED

: 06/12/96

SAMPLE MATRIX

: NON-AQ

PARAMETER	UNITS	07	08	
PETROLEUM HYDROCARBONS, IR	MG/KG	<20	<20	

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GENERAL CHEMISTRY - REAGENT BLANK

CLIENT : RHINO ENVIRONMENTAL

AEN I.D.

: 606317

PROJECT # : (NONE)

SAMPLE MATRIX

: NON-AQ

PROJECT NAME: DP-619

UNITS

: MG/KG

PARAMETER

AEN I.D.

SAMPLE RESULT

PETROLEUM HYDROCARBONS 061296

<20

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : RHINO ENVIRONMENTAL

AEN I.D.

: 606317

PROJECT # : (NONE)

(MONE)

SAMPLE MATRIX

: NON-AQ

PROJECT NAME: DP-619

UNITS

: MG/KG

		SAMPLE	DUP.		SPIKED	SPIKE	%
PARAMETER	AEN I.D.	RESULT	RESULT	RPD	SAMPLE	CONC.	REC
PETROLEUM HYDROCARBONS	60631708	<20	<20	NA	162	150	108

SHADED AREAS ARE FOR LAB USE ONLY PLEASE FILL THIS FORM IN COMPLETELY. Albuquerque · Phoenix · Pensacola · Portland · Pleasant Hills · Columbia American Environmental Network (NM), Inc. 4/1/96 AEN Inc.: American Environmental Network (NM), Inc. • 2709-D Pan American Freeway, NE • Albuquerque, New Mexico 87107 P.O. NO.: SHIPPED VIA: UPS PROJ. NO.: PROJECT MANAGER: NO, CONTAINERS PROJ. NAME: RECEIVED INTACT USTODY SEALS 444-3 BILL TO: FAX: PHONE: ADDRESS: COMPANY: ADDRESS: COMPANY: 72.5 SAMPLE RECEIPT PROJECT INFORMATION SAMPLE ID 00-619 V0416 グN/NA: 30 6/10/96 6110186 15/0/12 61108/ 6/16/96 16:10 110196 13:25 DATE 1696 16:45 JANI ROOM CONTE PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS COMMENTS: (RUSH) ! 124hr | 148hr | 1.172hr METHANOL PRESERVATION [] CERTIFICATION REQUIRED: [] NM 00/00 S/. W 10:10 15.55 11:05 09:20 08:30 FIXED FEE WARC MATRIX 709 I G 104 -08 -02 20 98 107 100 LAB I.D. [] 1 WEEK []SDWA Petroleum Hydrocarbons (418.1) TRPH (MOD.8015) Diesel/Direct/Inject OTHER (M8015) Gas/Purge & Trap Gasoline/BTEX, & MTBE (M8015/8020) OF CUS] **ВТХЕФТВВ** (8020) (NORMAL) BTEX & Chlorinated Aromatics (602/8020) BTEX/MTBE/EDC & EDB (8020/8010/Short) Chlorinated Hydrocarbons (601/8010) Printed Name: Company Signature EDB□/ DBCP 🗆 504 RELINGUISHED BY: 0200 RECEIVED BY: d Name ANALYSIS REQUEST Polynuclear Aromatics (610/8310) Volatile Organics (624/8240) GC/MS Volatile Organics (8260) GC/MS **AEN LAB I.D.** Date Time Time Pesticides/PCB (608/8080) Herbicides (615/8150) DISTRIBUTION: White, Canary - AEN Pink - ORIGINATOR Base/Neutral/Acid Compounds GC/MS (625/8270) General Chemistry: Company Signature Printed Name RELINQUISHED BY: RECEIVED BY American Environmental Network (NM), Inc. inted Name: Priority Pollutant Metals (13) Target Analyte List Metals (23) (LAB) RCRA Metals (8) Date: ine: Date Time RCRA Metals by TCLP (Method 1311) 0:30 3-12-8

W

NUMBER OF CONTAINERS



RHINO ENVIRONMENTAL SERVICES, INC.

FIGURE 1 - SITE MAP

→MW-5 SectionX4
Section 3 Section 2 Section 7
Section 6
Section 5 Section MW-1 Test Plots MW-4 MW-3 → Monitor Wells Figure No. 1 Discharge Plan DP-619 Site Map Hobbs, NM



Tightness Tests
Removals
New Installations
Repairs
Remedial Services
Contaminated Soils Disposal
Leak Detection

April 10, 1996

Phyllis Ann Bustamante Ground Water Section Environmental Department 1190 St. Francis Drive, PO Box 26110 Santa Fe, NM 87502

Re: Landfarm Facility DP-619:
Quarterly Report (February 28, 1996)

Dear Phyllis,

Enclosed please find the February 28, 1996 Quarterly Report for Rhino's Discharge Plan DP-619. Table No. 1 includes all soils and water accepted during the period November 1, 1995 through January 31, 1996. As per our telephone conversation, the native soil samples have not been taken for this quarter due to a misunderstanding on my part that we would be able to perform this testing on a bi-annual basis. I will do this testing next week and forward you the results.

I am sorry for mixup and the delay in getting this report to you. If you have any questions, please call me.

Sincerely,

Royce Cooper, Jr.

DISCHARGE PLAN DP-619 QUARTERLY REPORT February 28, 1996

TABLE NO. 1 SOIL AND WATER LOG DISCHARGE PLAN DP-619 NOVEMBER 1, 1995 THROUGH JANUARY 31, 1996

DATE 112295	VOL. 16 drum soil; 1 drum water	NMSHTD Yard State Hwy 21 Springer, NM	Diesel	Section D-6
112995	2 drums water	Brewer Oil 3rd and Haines Alb., NM	Gas	1-AST
112395	3 drums water	Mikes Plateau 3514 S. Coors Alb., NM	Gas	1-AST
112995	3 drums soil	Circle K #615 4001 4th Street Alb., NM	Gas	G-5
121995	20 yds	7-Eleven Store Midland, Texas	Gas	G-5
122795	19 drums soil	Diamond Shamrock 12605 Central Alb., NM	Gas	G-5
122795	4 drums soil	Silverado Apts. 5741 Osuna Alb., NM	Gas	G-5
122895	217 tons	Diamond Shamrock 1221 2550 Central Alb., NM	Gas	G-5
010496	2 drums water	CDM 4th & Menaul Alb., NM	Gas	1-AST
010496	2 drums water	CDM 3rd & Haines Alb., NM	Gas	1-AST

<u> </u>			Τ	
010996	2 drums water	Chevron Asphalt 2040 2nd Alb., NM	Gas	1-AST
011096	2 drums water	Chevron 75660 1126 Menaul Alb., NM	Gas	1-AST
011596	1 drum soil	Circle K 616 8398 Doniphan El Paso, Tx	Gas	G-5
011896	7 drums soil	One Executive Center 6500 Menaul Alb., NM	Diesel	D-6
011896	9 drums soil	Truck Stop of Amer. I-40 & US 69 Santa Rosa, NM	Diesel	D-6
011896	10 drums water	Highway 70 Truckstop Highway 70 Tucumcari, NM	Gas	1-AST
012696	13 drums water	Dames & Moore 3909 12th Alb., NM	Gas	1-AST
012396	3 drums water	Diamond Shamrock 1232 6724 2nd Alb., NM	Gas	1-AST
012396	3 yds	7-Eleven 416 5724 4th Lubbock, Tx	Gas	G-5
012396	1 drums water	Diamond Shamrock 9400 Menaul Alb., NM	Gas	1-AST
012696	3 drums soil	Gonzales #3 Coors & Redland Alb., NM	Gas	G-5
012696	11 drums soil	Gram, Inc. 400 N. Main Belen, NM	Gas	G-5
013196	1 drum water	Diamond Shamrock 454 803 S. Crane Odessa, Tx	Gas	1-AST
012496	1 drum water	Chevron Bulk 318 Railroad Track Bernalillo, NM	Gas	1-AST

012496	3 drums water	Chevron 75729 502 Old Santa Fe Tr. Santa Fe, NM	Gas	1-AST
012596	13 drum soil	Phillips 66 Alb., NM	Gas	G-5

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Tightness Tests
Removals
New Installations
Repairs
Remedial Services
Contaminated Soils Disposal
Leak Detection

May 2, 1996

Phyllis Ann Bustamante Ground Water Section Environmental Department 1190 St. Francis Drive, PO Box 26110 Santa Fe, NM 87502

Re: Landfarm Facility DP-619:

Quarterly Report (February 28, 1996)

Dear Phyllis,

On 04/23/96 the native soil testing was performed at DP-619. This testing is part of our February 28, 1996 Quarterly Report. One sample three feet below the native soil surface was retrieved from each of our 8 treatment zones. Samples S-1, S-2B, S-3, S-4, S-6 and S-7 were analyzed for TPH be EPA Method 418.1. These treatment cells treat diesel or used oil contaminated soils. Samples S-2A and S-5 were analyzed for BTEX by EPA Method 8020 since gasoline contaminated soils were treated in cells 2-A and 5. All samples came back with nondetectable limits. Figure No. 1 is a Site Map showing the location of the samples. A copy of the analytical report is attached.

If you have any questions, please call me.

Royce Cooper, Jr.

-♦MW-5 . S-1 * AMW-1 MW-3 MW-4 → Monitor Wells * Native Soil Samples

Site Hap

Figure

No. 1

Discharge Plan DP-619

Hobbs. NH

AEN I.D. 604397

April 26, 1996

Rhino Environmental P.O. Box 2327 Hobbs, NM 88240

RECEIVED APR 2 9 1896

H. Mitchell Rubenstein, Ph.D.

Laboratory Manager

Project Name/Number: DP-619

Attention: Royce Cooper

On 04/24/96, American Environmental Network (NM), Inc., (ADHS License No. AZ0015) (formerly ATI-NM), received a request to analyze non-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.

KDM Neill
Kimberly D. McNeill

Kimberly D. McNeill Project Manager

MR:jt

Enclosure

CLIENT

: RHINO ENVIRONMENTAL

DATE RECEIVED

:04/24/96

PROJECT #

: (NONE)

PROJECT NAME : DP-619

REPORT DATE

:04/26/96

AEN ID: 604397

AEN #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	S-1	NON-AQ	04/23/96
02	S-2A	NON-AQ	04/23/96
03	S-2B	NON-AQ	04/23/96
04	S-3	NON-AQ	04/23/96
05	S-4	NON-AQ	04/23/96
06	S-5	NON-AQ	04/23/96
07	S-6	NON-AQ	04/23/96
08	S-7	NON-AQ	04/23/96

---TOTALS---

MATRIX NON-AQ #SAMPLES

8

AEN STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

GENERAL CHEMISTRY RESULTS

CLIENT : RHINO ENVIRONMENTAL

AEN I.D. : 604397

SAMPLE MATRIX

PROJECT # : (NONE)

DATE RECEIVED : 04/24/96

PROJECT NAME : DP-619 DATE ANALYZED

: 04/24/96 : NON-AQ

 PARAMETER
 UNITS
 01
 03
 04
 05

 PETROLEUM HYDROCARBONS, IR MG/KG
 <20</td>
 <20</td>
 <20</td>
 <20</td>

GENERAL CHEMISTRY RESULTS

CLIENT : RHINO ENVIRONMENTAL AEN I.D. : 604397

PROJECT # : (NONE) DATE RECEIVED : 04/24/96

PROJECT NAME : DP-619 DATE ANALYZED : 04/24/96

SAMPLE MATRIX : NON-AQ

PARAMETER UNITS 07 08
PETROLEUM HYDROCARBONS, IR MG/KG <20 <20

GENERAL CHEMISTRY - REAGENT BLANK

CLIENT : RHINO ENVIRONMENTAL AEN I.D.

: 604397

PROJECT # : (NONE)

SAMPLE MATRIX

: NON-AQ

PROJECT NAME: DP-619

UNITS

: MG/KG

PARAMETER

AEN I.D.

RESULT

SAMPLE

PETROLEUM HYDROCARBONS 042496 <20

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT

: RHINO ENVIRONMENTAL

AEN I.D.

: 604397

PROJECT # : (NONE)

SAMPLE MATRIX

: NON-AQ

PROJECT NAME: DP-619

UNITS

: MG/KG

		SAMPLE	DUP.		SPIKED	SPIKE	*
PARAMETER	AEN I.D.	RESULT	RESULT	RPD	SAMPLE	CONC.	REC
PETROLEUM HYDROCARBONS	042496	<20	<20	NA	170	150	113

GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX, MTBE (EPA 8020)

CLIENT

: RHINO ENVIRONMENTAL

AEN I.D.: 604397

PROJECT #

: (NONE)

PROJECT NAME : DP-619

SAMPLE		DATE	DATE	DATE	DIL.
ID. # CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
02 S-2A	NON-AQ	04/23/96	04/25/96	04/25/96	1
06 S-5	NON-AQ	04/23/96	04/25/96	04/25/96	1
PARAMETER		UNITS	02	06	
BENZENE		MG/KG	<0.025	<0.025	
TOLUENE		MG/KG	<0.025	<0.025	
ETHYLBENZENE		MG/KG	<0.025	<0.025	
TOTAL XYLENES		MG/KG	<0.025	<0.025	
METHYL-t-BUTYL ETHER		MG/KG	<0.13	<0.13	
SURROGATE:					

BROMOFLUOROBENZENE (%)

92

89

GAS CHROMATOGRAPHY RESULTS

REAGENT BLANK

TEST	: BTEX, MTBE (EPA 8020)	AEN I.D.	: 604397
BLANK I.D.	: 042596	MATRIX	: NON-AQ
CLIENT	: RHINO ENVIRONMENTAL	DATE EXTRACTED	: 04/25/96
PROJECT #	: (NONE)	DATE ANALYZED	: 04/25/96
PROJECT NAME	: DP-619	DILUTION FACTOR	: 1

PARAMETER	UNITS	
BENZENE	MG/KG	<0.025
TOLUENE	MG/KG	<0.025
ETHYLBENZENE	MG/KG	<0.025
TOTAL XYLENES	MG/KG	<0.025
METHYL-t-BUTYL ETHER	MG/KG	<0.13

SURROGATE:

BROMOFLUOROBENZENE (%)

92

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

TEST : BTEX, MTBE (EPA 8020)

MSMSD # : 60439706 AEN I.D. : 604397

CLIENT: RHINO ENVIRONMENTAL DATE EXTRACTED: 04/25/96

PROJECT # : (NONE) DATE ANALYZED : 04/25/96

PROJECT NAME: DP-619 SAMPLE MATRIX : NON-AQ REF. I.D. : 60439706 UNITS : MG/KG

SAMPLE CONC SPIKED ¥ DUP DUP SPIKE **PARAMETER** RESULT SAMPLE REC SPIKE % REC RPD BENZENE <0.025 1.00 0.86 86 0.92 92 7 TOLUENE <0.025 1.00 0.86 86 0.91 91 **ETHYLBENZENE** <0.025 1.00 0.87 87 0.93 93 7 TOTAL XYLENES <0.025 3.00 2.59 2.79 86 93 7 METHYL-t-BUTYL ETHER <0.13 2.00 1.78 89 1.89 95 6

(Sample Result - Duplicate Result)

RPD (Relative Percent Difference) = ----- X 100

Average Result

PLE			L				IN (COMPL	ET	EL.	Y. S	SH.	ADI	ED ^	AF	PROJECT COMPANDE COMPAND COMPANDE COMPAND COMPAND COMPAND COMPAND COMPAND COMPAND COMPAND COM
		□ 24hr □ 48hr □ 72hr	PRIOR AUTHORIZATION IS	SHIPPED VIA: $U ho >$	P.O. NO.:	7 3	PROJECT INFORMATION	7	6	5	4	\ \ '	2/3	46	5-/	T MANAGER: ANY: SS: CO: ANY: SSS: SAMPLE ID
		□1 WEEK (NORMAL) X12 WEEK	AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS	RECEIVED COLD	RECEIVED INTACT	3) ~	SAMPLE RECEIPT	4/23/5/ 11:52 So. 2 -08	11114 2	\$ 35.00	1017 5.2			08:42	4/2/8/ 814 Soil-01	DATE TIME MATRIX LABID
Company:	Printed Name:	K Signature:	RECEIVED BY:	Sortopany:	Figured Name:	Signaluf p:	SAMPLED & F		X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	s X	XX	X	$X \mid \cdot \mid \cdot \mid X$	<u> </u>	Petroleum Hydrocarbons (418.1) (MOD 8015) Gas/Diesel Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020) BTXE/MTBE (8020)
	Date:	Time:		Phone: 392-4458	Date: 4/23/91	16:30	SAMPLED & RELINQUISHED BY: 1.									Chlorinated Hydrocarbons (601/8010) Aromatic Hydrocarbons (602/8020) SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.
Company:	Printed Name:	Signature:	RECEIVED BY:	Company:	Printed Name:	Signature:										Pesticides/PCB (608/8080) Herbicides (615/8150) Base/Neutral/Acid Compounds GC/MS (625/8270)
	Date:	Time:	2.		Date:	Time:) BY: 2.									Pesticides/PCB (608/8080) Herbicides (615/8150) Base/Neutral/Acid Compounds GC/MS (625/8270) Volatile Organics GC/MS (624/8240) Polynuclear Aromatics (610/8310)
* Analytical Tec	Printed Name	Signature:	RECEIVED BY:(L	Company:	Printed Name:	Signature:	RELINQUISHED BY:									SDWA Secondary Standards - Arizona SDWA Primary Standards - Federal SDWA Secondary Standards - Federal
chnotogles, inc	11 Seb. 1		(LAB)		Date:	Time:	ВҮ:									The 13 Priority Pollutant Metals RCRA Metals by Total Digestion RCRA Metals by TCLP (1311)

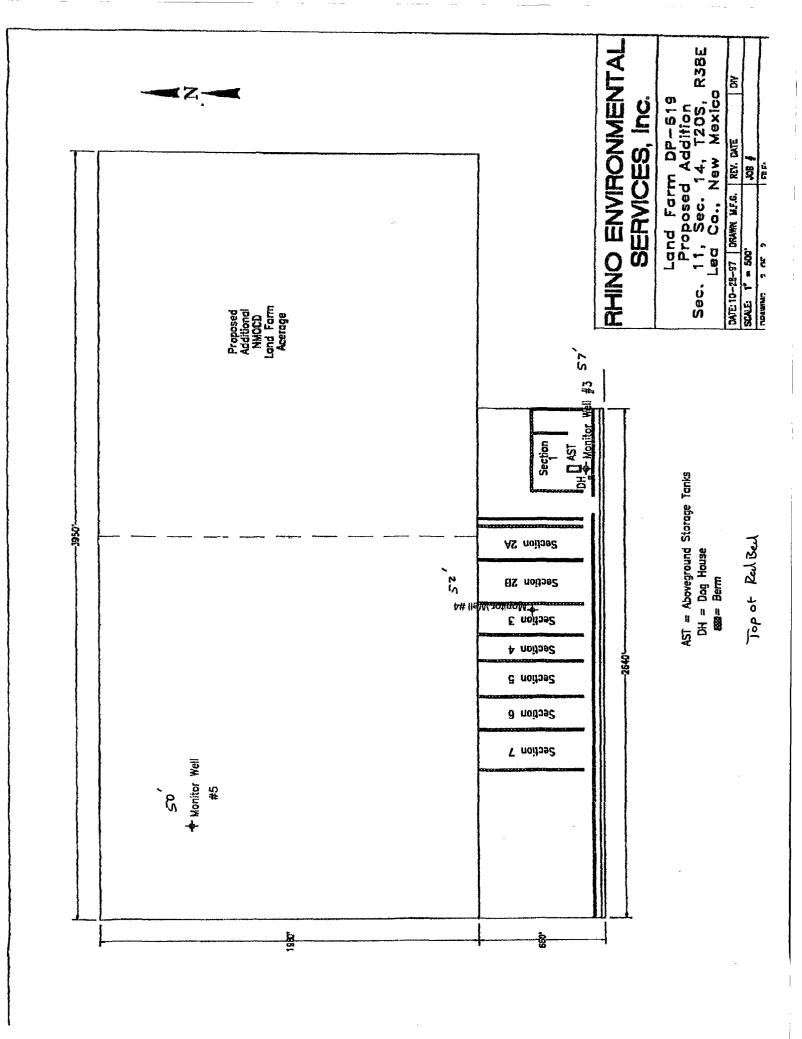
NUMBER OF CONTAINERS



APPENDIX D - WELL LOCATION MAP AND WELL DIAGRAMS

	MONT	TOR WELL NO.	MV	-¥ √-3			ITOR (DETAI)	
DEUTH FT		RIAL RIPTION			DEPTH FT		ING P	
-5- -10- -15- -20- -25- -30- -35- -40- -45- -50- -55- -60-	2 - 22 f 22 - 32 f 32 - 55 f 55 - 57 f 57 - 120	eet: Top Soil eet: Caliche eet: Red Clay and Ro eet: Sand eet: Sandy Clay feet: Red Bed	ock		-5 -10 -15 -20 -25 -30 -35 -40 -45 -50 -55 -60			
Fig No.		Monitor V	8 Mi.	harge les Sc s, NM	Plan outh o	DP-619 f Hobbs		

evezenek e skoa vrakovene gerillismes	PIMOM	OR WELL NO.	MW - 4			MONTTOR WELL, DETAILS
P.T. DEBLAN	MATER DESCA	TAL ETPTION	THE ACT OF THE PARTY OF THE PAR		15.7. DELLH	LOCKING PLAG
-10	32 - 50 fee	: Caliche t: Red Clay and Ro	ck		-5- -10- -15- -20- -25- -30- -35- -40- -45- -50- -60-	Sand ——Screen
	gure . 1	Monitor	Well	Log	118 M:	charge Plan DP-619 iles South of Hobbs bs, NM



	MONI	t I	MONITOR WELL DETAILS					
DEPTH FT		RIAL RIPTION	LOCKING PLUG MW COVER					
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APPENDIX E - EVIDENCE OF PUBLIC NOTICE

was paid for at time of mailing. MAR 2 1998 Attach fee as shown in DMM if return receipt was not paid for at time of mailing. 4. Article Number	□ 1. Return receipt WAS NOT paid for at time of mailing. □ 2a. Return receipt WAS paid for at time of mailing. □ 2b. Return receipt showing addressee's address WAS paid for 3. Article Addressed To: MC CARLAND PO BX 206 ELLOCE NM 882	at time of mailing.	
5. Mailing Date 6. Type of Service COD Co. 7. DeltyGry Office 8. Delivered to the for Positivark MAR 9. Delivery Date	Intified Numbered Insured Return Receipt Express Inviting individual, company, or organization: 1998 1998 1999	s Mail	

FAX COVER SHEET

RHINO ENVIRONMENTAL SERVICES, INC.

5 County Road 6065

Farmington, New Mexico 87401 Ph. (800) 499-8393

Ph: (800) 499-8393 Ph: (800) 762-0241 Fx: (505) 598-9627

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RECEIVED

FEB 16 1998

Environmental Bureau
Oil Conservation Division

February 13, 1998

Ms. Martyne J. Kieling
New Mexico Energy, Minerals, and Natural Resources Department
OIL CONSERVATION DIVISION - ENVIRONMENTAL BUREAU
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Ph: (505) 827-7153, Fx: (505) 827-8177

Re: Commercial Landfarm Permit Application

SE/8 of SE/4 & SW/4 of SE/4, Sec. 11, T20S, R38E, Lea County, New Mexico

Dear Ms. Kieling:

Enclosed is all the pertinent evidence demonstrating Rhino's compliance with the Public Notice Requirements. To date, all certified receipts have been returned, with the exception of The Bruce Morris Holding Company and The Deck, Millard Estate.

Rhino hopes the attached information serves to complete all requirements of the application. We appreciate your time and consideration. Please don't hesitate to call me if you have any questions or require additional information.

Daniele Berardelli Landfarm Manager

CC: Mr. Wayne Price, OCD District - I

Called Daniele Beradelli 1/27/98 DisRegard this

The
Lovington
Daily Display Class. Daily DRAWER 1717 LOVINGTON, NM 88260 Statement of Account For State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division 2040 S. Pacheco Santa Fe, NM 87505 Month of January 19 98 DISPLAY ADVERTISING: inches @ CLASSIFIED ADVERTISING: words @ inches @ OTHER CHARGES: Legal Notice Ad ran January 9, 1998 49 20 JAN 2 6 1998 49 20 Total this month.... Previous Balance..... 30 PLEASE PAY 49 20 THIS AMOUNT.....

Affidavit of Publication

STATE OF NEW MEXICO)
) s
COUNTY OF LEA)

Joyce Clemens being first duly sworn on oath deposes and says that he is Adv. Director of THE LOVINGTON DAILY LEADER, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled Legal Notice Notice of Publication : Xand XnumberedX XXXXXX X**&XXXXXXXXXXX** XCOUNTY NAW Mexico was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and consecutive weeks, beginning with the issue of January 9 1998 and ending with the issue of **19** 98 January 9 And that the cost of publishing said notice is the sum of \$ 49.20which sum has been (Paid), (Assessed) as Court Costs Subscribed and sworn to before me this 9th

day of .

...., **19** 98

Notary Public, Lea County, New Mexico

My Commission Expires September 28 1998

LEGAL NOTICE
NOTICE OF
PUBLICATION
STATE OF
NEW MEXICO
ENERGY, MINERALS
AND
NATURAL RESOURCES
DEPARTMENT
OIL CONSERVATION

DIVISION

Notice is hereby given that pursuant to the New Mexico Oil Conservation Division Regulations, the following application has been submitted to the Director of the Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

Rhino Environmental Services, Inc., Steve Dyer, President, 300 Broadway NE, Albuquerque, New Mexico, 87102, has submitted for approval an application to construct and operate a Rule 711 commercial solids landfarm remediation facility located in the SE/8 of SE/4 & SW/4 of SE/4 of Section 11, Township 20 South, Range 38 East, NMPM, Lea County, New Mexico. Hydrocarbon contaminated soils associated with oil and gas production will be remediated by spreading them on the ground surface in 6 inch lifts or less and periodicaldisking them to enhance biodegradation of contaminants. Ground water most likely to be affected by any accidental discharges at the surface is estimated to be at a depth of 200 feet with a total dissolved solids concentration estimated to be at 1000 parts per million. The facility is underlain by the Triassic red beds. The permit application addresses the construction, operations, spill/leak prevention and monitoring procedures to be incorporated at the proposed site.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday thru Friday. Prior to ruling on any proposed application, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

If no hearing is held, the Director will approve or disapprove the application based on the information available. If a public hearing is held, the Director will approve the application based on the information in the application and information presented at the hearing.

GIVEN under the Seal of New Mexico Oil C on servation Commission at Santa Fe, New Mexico on this 5th. day of January, 1998.
STATE OF
NEW MEXICO
OIL CONSERVATION
DIVISION
KATHLEEN A. GARLAND,
Acting Director

SEAL

Published in the Lovington Daily Leader January 9, 1998.

Affidavit of Publication

STATE OF NEW MEXICO)
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COMMUNICATION	`

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That the notice which is hereto attached, entitled
Legal Notice
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
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entire issue of THE LOVINGTON DAILY LEADER and
not in any supplement thereof, once each week on the
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
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January 9 19 98
and ending with the issue of
January 9 19 ⁹⁸
And that the cost of publishing said notice is the sum of \$
which sum has been (Paid) (Assessed) as Court Costs
/ / //
Subscribed and sworn to before me this
day of January , 1998

Notary Public, Lea County, New Mexico

My Commission Expires

LEGAL NOTICE
NOTICE OF
PUBLICATION
STATE OF
NEW MEXICO
ENERGY, MINERALS
AND
NATURAL RESOURCES
DEPARTMENT
OIL CONSERVATION

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If no hearing is held, the Director will approve or disapprove the application based on the information available. If a public hearing is held, the Director will approve the application based on the information in the application and information presented at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 5th day of January, 1998.
STATE OF
NEW MEXICO
OIL CONSERVATION
DIVISION
KATHLEEN A. GARLAND,
Acting Director

SEAL

Published in the Lovington Daily Leader January 9, 1998.

Affidavit of Publication

STATE OF NEW MEXICO)
•) s
COUNTY OF LEA)

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Joyce Umeno	
Subscribed and sworn to before me this	9th
day of January	
Jean Seur	

Notary Public, Lea County, New Mexico

Sept. 28 , 19 98

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My Commission Expires ...

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

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If no hearing is held, the Diepror will approve or disapprove the application asset on the information will approve the application based on the information in the application and information presented at the hearing.

GIVEN under the Seal of New Mexico Oil C o n s e r v a t i o n Commission at Santa Fe, New Mexico, on this 5th, day of January, 1998.
STATE OF
NEW MEXICO
OIL CONSERVATION
DIVISION
KATHLEEN A. GARLAND,
Acting Director

SEAL

Published in the Lovington Daily Leader January 9, 1998.

The Santa Fe New Mexican

Since 1849. We Read You.

ACCOUNT: PHINO ENVIRO SERVICES AD NUMBER: 6514 999901 ATTN: DANIELE BERARDELLI 5 CR 6065 LEGAL NO: 62871 054927 FARMINGTON, NM 87401 LINES 172 ONCE Affidavits: 5.25° 122.54

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

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 5th day of January, 1998.

STATE OF NEW MEXICO OIL CONSERVATION DI-VISION KATHLEEN A. GARLAND,

Acting Director Legal #62871 Pub. January 12, 1998 AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO COUNTY OF SANTA FE

I, BETSY PERNER being first duly sworn declare and
say that I am Legal Advertising Representative of THE SANTA
FE NEW MEXICAN, a daily news paper published in the English
language, and having a general circulation in the Counties of
Santa Fe and Los Alamos, State of New Mexico and being a News-
paper duly qualified to publish legal notices and advertise-
ments under the provisions of Chapter 167 on Session Laws of
1937; that the publication $\#_{62871}$ a copy of which is
hereto attached was published in said newspaper once each
WEEK for ONE consecutive week(s) and that the no-
tice was published in the newspaper proper and not in any
supplement; the first publication being on the 12 day of
JANUARY 1998 and that the undersigned has personal
knowledge of the marter and things set forth in this affida-
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LEGAL ADVERTISEMENT REPRESENTATIVE
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Subscribed and sworn to before me on this

Subscribed and sworn to before me on this

12 day of ________ A.D., 1998

Notary Markie
Commission Expires 3-13-200



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Hobbs, NM 88241

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4b. Service Type

Registered

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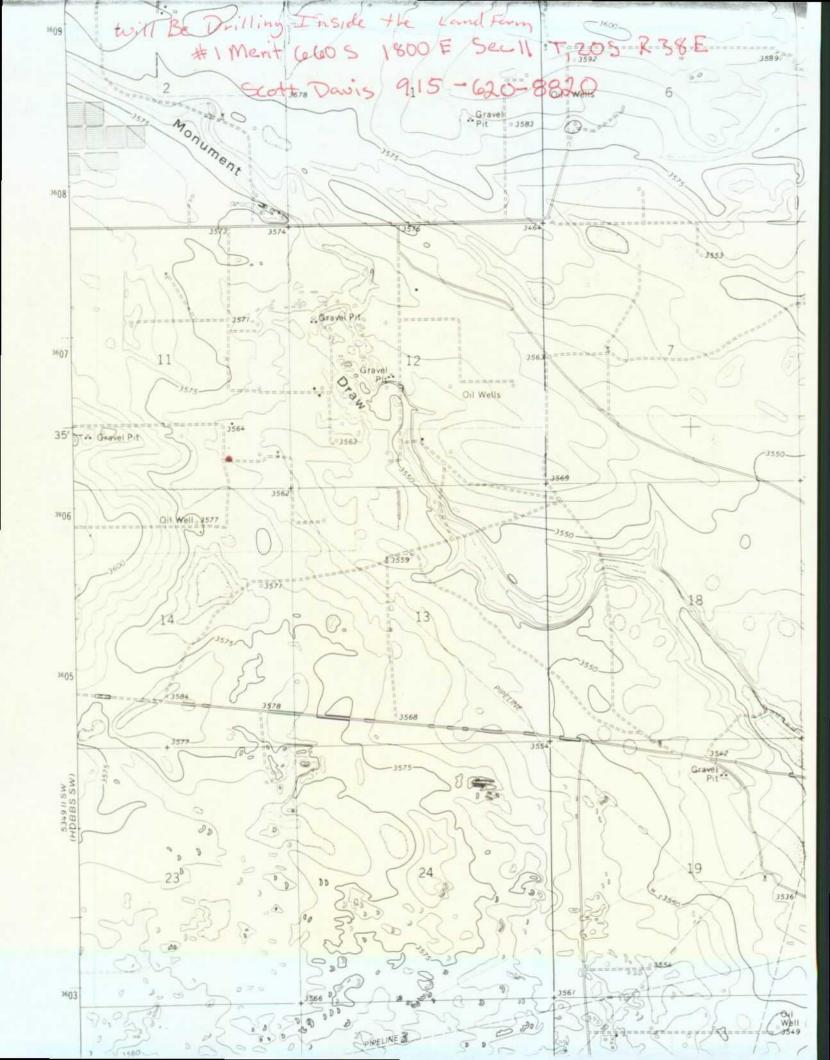
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SENDER: Complete tierns 1 and/or 2 for additional services. also wish to receive the complete tierns 3, 4a, and 4b. also wish to receive the conditions and the date conditions not not tierns this end to leave and the date consult postmaster for fee. Addressee's Addressee'	SENDER: Complete figms Landor 2 for additional services. I complete figms 3, 4a, and 4b. Services figms 1, 4a, and 4b. Services on the reverse of this form so that we can return this card to your marks and address on the reverse of this form so that we can return this card to your marks and address on the reverse of this form so that we can return this card to your marks and address on the reverse of this form so that we can return this card to your marks and address on the reverse of this form so that we can return this card to your marks and address on the reverse of the following services (for an extra fee): 1.	SENDER: Complete items 1 and/or 2 for additional services. Scomplete items 3, 4a, and 4b. Scomplete items and scoles on the back it space does not extra tee): Consult postmaster for fee. Sconsult postmaster for fee. Sconsult postmaster for fee. Consult postmaster for fee. Sconsult postmaster for fee. Consult postmaster for fee. Sconsult postmaster for fee. Sconsult postmaster for fee. Consult postmaster for fee. Consult postmaster for fee. Consult postmaster for fee. Sconsult postmaster for fee. Consult postmaster for fee



Rhino Envrionmental Services, Inc. 711 Permit Conditions April 27, 1998 Page 6

months, the operator shall complete cleanup of constructed facilities and restoration of the facility site within the following six (6) months, unless an extension of time is granted by the Director.

- 2. A closure plan for the facility will be provided including the following OCD closure procedures:
 - a. When the facility is to be closed no new material will be accepted;
 - b. Existing landfarm soils will be remediated until they meet the OCD standards in effect at the time of closure;
 - c. The area will be reseeded with natural grasses and allowed to return to its natural state;
 - d. Closure will be pursuant to all OCD requirements in effect at the time of closure, and any other applicable local, state and/or federal regulations.

CERTIFICATION

Rhino Environmental Services, Inc., by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. Rhino Environmental Services, Inc. further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Accepted:

RHINO ENVIRONMENTAL SERVICES, INC.

Title

RECFIVED

MAY 1 1 1998



300 Broadway NE • Albuquerque, New Mexico 87102 (505) 242-6464 • Fax (505) 247-4941 5 County Road 6065 • Farmington, New Mexico 87401 (505)598-9626 • Fax (505) 598-9627

February 9, 1998

Ms. Martyne J. Kieling
New Mexico Energy, Minerals, and Natural Resources Department
OIL CONSERVATION DIVISION - ENVIRONMENTAL BUREAU
2040 South Pacheco Street
Santa Fe, New Mexico 87505
Ph: (505) 827-7153, Fx: (505) 827-8177

Re: Commercial Landfarm Permit Application

SE/8 of SE/4 & SW/4 of SE/4, Sec. 11, T20S, R38E, Lea County, New Mexico

Dear Ms. Kieling:

As requested, Rhino Environmental Services, Inc. (Rhino) would like to submit well records for Sections 1, 2 and 12. Also, you asked for clarification concerning the 120' wells drilled by Eades Drilling in 1989. In response to your question, 10' 2" screens were placed at 110'. Additionally, I have reviewed the letters of protest and noted that the two concerns were odor and effects to groundwater. I would like to address these two issues and explain why Rhino does not believe they will have a negative impact to the surrounding environment.

OIL CONSERVATION

The well records in sections 1, 2 and 12 show groundwater to be an average of 138, 43 and 58 feet deep, respectively. Upon review of the 1979 USGS Topographic Map (enclosed), it is evident that the land slopes from the north to the south. The protesting letters place all residents in the NW corner of section 11. Our farm will be located in the very southern portion of section 11. Well records were obtained from section 14 to determine the depth to groundwater in the path of drainage in accordance with the natural slope of the land. Records show that wells 200 feet deep encountered no groundwater (enclosed). To support our claim that groundwater will not be effected, Rhino, in accordance with the conditions of our DP619, New Mexico Environment Department permit, samples the native soil quarterly at a depth of three feet below the surface. Groundwater monitoring is also performed to ensure that it remains unaffected. Rhino's DP-619 facility has been permitted since 1969, all monitoring results demonstrate that no contaminant migration has occurred. If necessary, Rhino can provide OCD with all quarterly reports.

Odor was the second biggest worry among the residents of the area. Rhino believes that the fact that we currently own and operate an existing landfarm directly adjacent to the proposed location should demonstrate that the lack of any complaints to date prove that odor has not been an issue. Furthermore, no letter mentions that any resident is currently experiencing problems associated with odor. The proposed farm will be accepting OCD related soils, which in general, are less volatile than the contaminants we currently treat. Therefore, odor associated with this facility should not at all become a nuisance.

Rhino hopes the above serves to address all issues and fulfill all the information requirements of the application. We appreciate your time and consideration. Please don't hesitate to call me if you have any questions or require additional information.

Daniele Berardelli Landfarm Manager

CC: Mr. Wayne Price, OCD District - I

STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

		ddress							
Vell was drille	d under Permit	: No			and is locat	ed in the:			
' a	;¼ ;	V4 V ₄	¼ of S	ection	Township	Ra	nge		N.M.P.N
		of Block No							
						te System			
B) Drilling	Contractor					License No			
ddress			·			·			
rilling Began		Comp	leted	·	Type tools		Size of	hole	ir
levation of la	nd surface or _			aı	well is	ft. Total depth	of well		f1
ompleted we	ll is	shallow	rtesian.		Depth to wa	ter upon completior	n of well		f(
Donth	in Feet		ion 2. PRIN	ICIPAL WA	TER-BEARING	STRATA	Fatir	noted Vie	ald.
From	То	Thickness in Feet		Description	of Water-Bearing	g Formation	1	Estimated Yield (gallons per minute)	
							i i		
			Section	on 3. RECC	RD OF CASING				
Diameter (inches)	Pounds per foot	Threads per in.	Depth	in Feet	Length	Type of Sho	De Fi	Perforati	
	Pounds per foot	Threads per in.			Length		pe F1	Perforati rom	ions To
		- -	Depth	in Feet	Length		De Fi		
		- -	Depth	in Feet	Length		De F1		
		per in.	Depth Top	in Feet Bottor	Length n (feet)	Type of Sho	pe F1		
(inches)		per in.	Depth Top	in Feet Bottor	Length	Type of Sho	Fi	rom	
(inches)	per foot	per in.	Depth Top	in Feet Bottor RD OF MU	Length (feet)	Type of Sho	oe Fi	rom	
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(inches)	per foot	Section Hole	Depth Top on 4. RECO	in Feet Bottor RD OF MU	Length (feet) IDDING AND CF Cubic Feet	Type of Sho	Fi	rom	
(inches)	per foot	Section Hole	Depth Top on 4. RECO	in Feet Bottor RD OF MU	Length (feet) IDDING AND CF Cubic Feet	Type of Sho	Fi	rom	
(inches)	per foot	Section Hole	Depth Top on 4. RECO Sac of M	RD OF MU	Length (feet) IDDING AND CF Cubic Feet	Type of Sho	Fi	rom	
Depth From	in Feet To	Section Hole Diameter	Depth Top On 4. RECO Sac of M	RD OF MUks	Length (feet) DDING AND CF Cubic Feet of Cement GING RECORD	Type of Sho	od of Placen	rom	
Depth From ugging Contr	in Feet To	Section Hole Diameter	Depth Top On 4. RECO Sac of M	RD OF MUks	Length (feet) DDING AND CF Cubic Feet of Cement GING RECORD	Type of Sho	od of Placen	nent	
Depth From lugging Contr ddress lugging Methorate Well Plug	in Feet To actor od ged	Section Hole Diameter	Depth Top On 4. RECO Sac of M	RD OF MUks	DDING AND CE Cubic Feet of Cement GING RECORD No.	Type of Sho	od of Placen	nent	To
Depth From dugging Contr	in Feet To actor od ged	Section Hole Diameter	Depth Top On 4. RECO Sac of M	RD OF MUks (aud	Length (feet) DDING AND CE Cubic Feet of Cement GING RECORD No.	Type of Sho	od of Placen	nent	To

011 Location No. 20.38.1.442333

Section 6, LOG OF HOLE

	Section 6. LOG OF HOLE							
Dept	h in Feet	Thickness						
From	То	in Feet	Color and Type of Material Encountered					
0	12		Caliche					
12	33_		Sand					
33	42		Flint rock					
42	95		Water sand					
95	110		Red shale					
110	150		Shale and sand					
150	160	ļ	Red shale					
160	200		Red shale and sand					
200	340		Red shale					
340	570		Red shale and sand					
570	580	<u> </u>	Red shale					
580	590		Sand					
590	600		Red shale					
600	630		Shale and sand					
								
			L S Elev					
			Depth to K					
·			Elev of KTrc_3472					
								

Section 7. REMARKS AND ADDITIONAL INFORMATION

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.M.

Location: 20.38.1.442333 Owner: Eastland 011 Co.

H. B. Waldrup #1

Record of Casing: 15 1/2" - 109'

9" - 1690'

Cable 0 - 109' Rotary 109 - 4755'

1920' S of NL - 640' W of EL of SE1/4

i para

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

Elevation: -- 3567 toj50

STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Hole Diameter of Mud of Cement Method of Placement Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD No Depth in Feet Culture Type of Shoe From To Part No. 10		s well No.				•			ss	st Office Add	
b. Tract No of Block No of the				l in the:	and is located				•	ider Permit 1	was drilled
C. Lot No of Block No	N.M.P.	ge	Range		Township		ection	¼ of S	1/4	½ ¼	a
Subdivision, recorded in			· · · · · · · · · · · · · · · · · · ·	 		of the			of Map No. ₋	·	b. Tract N
the		**************************************	· · · · · · · · · · · · · · · · · · ·								
B) Drilling Contractor											
Completed			nse No	License						tractor	Drilling Co
Section 3. RECORD OF CASING Depth in Feet Threads Depth in Feet Top Bottom (feet) Type of Shoe From To Depth in Feet Top Bottom Center											ress
Section 2. PRINCIPAL WATER-BEARING STRATA Depth in Feet	i	Size of hole _	······································	· · · · · · · · · · · · · · · · · · ·	Type tools			leted	Compl		ling Began _
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Depth in Feet Thickness in Feet Description of Water-Bearing Formation Estimated N (gallons per n	1	of well								☐ sh	ipleted well
Section 3. RECORD OF CASING Diameter (inches) per foot per in. Top Bottom (feet) Type of Shoe Perfor From Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Hole Diameter of Mud of Cement Method of Placement Section 5. PLUGGING RECORD Section 5. PLUGGING RECORD					******				Thickness	eet	Depth ir
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Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Hole Diameter of Mud of Cement Method of Placement Section 5. PLUGGING RECORD ugging Contractor ddress No Depth in Feet Cu	rations		pe of Shoe	Type of Sil			Depth in Feet				
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Section 5. PLUGGING RECORD ugging Contractor ddress	<u> </u>		G	ENTING	NG AND CEM	L IUDDI	RD OF M	n 4. RECO	Section		
ugging Contractor		of Placement	Method o		I .	1					
ugging Contractor											
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ugging Method Of Of	ıbic Feet	· · · · · · · · · · · · · · · · · · ·			No.						ress
ate Well Plugged	Cement	Bottom of	ър Во	Тор							Well Plugge
ugging approved by: $\frac{2}{3}$					├	·				by:	ging approve
State Engineer Representative 4					4		entative	ieer Repres	State Engin		

	· · · · · · · · · · · · · · · · · · ·	T	Section 6. LOG OF HOLE			
		Thickness in Feet	Color and Type of Material Encountered			
From	То	m reet				
0	28		Caliche			
28	170		Hard sandstone			
170	180		Sand (fresh water)			
180	310		Red bed and shells			
310	1635		Red bed and shale			
	/	• ;				
			L S Elev			
			L S Elev			

Section 7. REMARKS AND ADDITIONAL INFORMATION

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.M.

Location: 20.38.1.42000

Owner: C. L. Norsworthy

Sinclair Waldrop

- 284.5 Record of Casing: 13 3/8" 8 5/8"

- 3608'

Rotary

3300's of NL - 660' W of EL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

Elevation: 3582' TC

STATE ENGINEER OFFICE

Revised June 1972

WELL RECORD

	0			. GENERAL IN	FORMATION				
A) Owner of	well	IMER	VUTTA	12L		Own	er's Well No.		
Street or F City and S	State	Be New	MEXI	CECIL CO 88	240				
a	_ ¼ ¼	N/2 45	€¼ of Se	ection 12	_ Township	20-5_ Ra	nge <i>38</i>	<u> </u>	_N.M.P.1
b. Tract N	10	of Map No.		of the					
c. Lot No),	of Block No		of the _					
Subdiv	ision, recorde	d in	184	<u>. </u>	ounty.				
				feet, N.M					
) Drilling Co	ontractor	U 570	NE_		 	_ License No	WD-5	-26	
idress 20	7 mw-	-4 =	Semi	BOLE -	TEX 45	2936	0		
				-30-88					
				at well			_		
ompleted well	_/	hallow 🔲 ai		Г					
				CIPAL WATER					
Depth in		Thickness in Feet		Description of W				ated Yies	
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1							<u> </u>		
Diameter	Pounds	Threads		in Feet	DF CASING Length			Perforat	ions
(inches)	per foot	per in.	Top	Bottom	(feet)	Type of Shoe Fro			To
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			<u> </u>	'					
									
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From	То	Diameter	Sack of M		oic Feet Cement	Meth	od of Placem	ent	
						· · · · · · · · · · · · · · · · · · ·			
						- 		·	
			Sectio	on 5. PLUGGINC	G RECORD				
igging Method	l				No.	Depth in Top	Feet Bottom	1	c Feet ement
te Well Plugge Igging approve					$ \frac{1}{2}$				
		State Engi	neer Represe	entative	3 4				
			FOR USE	OF STATE ENG	<u> </u>	,			
te Received	January	5, 1989				FWL_		FSI.	_
File No L -	10,049			DOM	RSTT <i>C</i>		20.38.12		
			.	Use	L	ocation No			

•	Section 6. LOG OF HOLE				
Depth	in Feet	Thickness			
From	To	in Feet	Color and Type of Material Encountered		
	2	2	Brown SURFACE DOIL		
2	25	23	CLECHIE WhiTE		
25	50	25	SAND ROCK BROWN		
50	85	35	WATER SAND-GRAY		
85	90	5	RED BED		
			Interpolated S563 Ft AMS Interpolated S5' Redbyl		
			Interpolated 85' Redbed		
			3478		
					

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

			(11) UW	mer or werr		Lowe Urill		
			Street a	nd Number.	Midl	and Tower -	Box 832	
			City	Mic	iland	Water	Well State	Texas
		× :	Well wa	s drilled ur 14 SE 14	oder Pern	nit No. for o	111 well and 2 Twp. 20	l is located in th
	·			•	actor	R. Musslewh:	ite Licer	nse No. WD 99
i	•			nd Number.	lahba	Box 56		Mf
							State	New Next CO
			Drilling	was comm	enced	December 20		19 54
(P	lat of 640 :	ecres)	—— Drilling	was comple	eted	December 21	Man San a	19.54
•		-	n feet above :	sea level		Total de	pth of well	90
ate who	ether wel	ll is shall	ow or artesia	n Shal	low	Depth to wa	ter upon comple	tion 65
1100 1120	mignod h	агды ал	History Chan I				g era so Topla :	tion 65
ction 2					ATEK-BEAK	ING STRATA		
No	Depth in	To	Thickness in Feet		De	scription of Wate	r-Bearing Formatio	n
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ction 4			RECO	ORD OF MUD	DING AN	D CEMENTING		
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Depth	in Feet		eter Tons	No. Sa	cks of	ID CEMENTING	Methods Used	
Depth	in Feet		eter Tons	No. Sa	cks of	ID CEMENTING	Methods Used	
Depth	in Feet		eter Tons	No. Sa	cks of	D CEMENTING	Methods Used	
Depth	in Feet		eter Tons	No. Sa	cks of	ID CEMENTING	Methods Used	
Depth	in Feet		eter Tons	No. Sa	cks of	ID CEMENTING	Methods Used	
Depth From	in Feet	Hole in	eter Tons n in. Clay	No. Sa Cem	cks of lent	ORD		MAR 30 1955
Depth From etion 5	in Feet To	Hole in	tor.	No. Sa Cem	cks of lent	ORD	License No	MAR 30 1955
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Depth From	in Feet	Thickness in Feet	Color	Type of Material Encountered				
0	1	1	From	Soil				
1	16 OF	15	White	Caliche & rock				
16	45	29	29		Sandy Shale			
45	49	4	Brown	Quartsite				
49	70	21	Brown	Sand stone hard				
70	87	17	Yellow	Sand rock, hard				
87	90	3	Red	Red bed, clay				
		· <u>····</u>						
M. S. L. 17 1			11 7	5 1 to the 1935				
				L S Elev				
		:	:	Depth to K				
				EIGV OF K				
	. :		·					
1,				Loc. No. 20.38. 12. 442222				
		·		Hydro Survey Field Check X				
				nyuro: Survey From Oricon				
:			1					
:			1	SOURCE OF ALTITUDE GIVEN				
		' -		Interpolated from Topo Sheet X				
				Determined by Inst Leveling				
)))))))))))))))))))	, 1 11 - 1		*, ****	Other				
., .,	· · ·	· · · · · · · · · · · · · · · · · · ·						
	· ·							
			· · · · · · · · · · · · · · · · · · ·					
			·					
· ·								
				·				
	12 12 12 12 12 12 12 12 12 12 12 12 12 1	1	•					

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Wall Duiller

STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

A) Owner o	of wellCity	of Hobbs ddress P.O.	Box 1117			Ow:	ner's Well No	·	
City and	State	Hobb	s. N.M.	88240					
ell was drille	d under Permit	No.Monitor	Well-Disp	osal Plant -	and is located	in the:			
		4 ¼ _NV	•				lange <u>38</u> E	N.1	M.P.
b. Tract	No,	of Map No		of the _	·			,	
c. Lot N Subd	Noivision, recorde	of Block No		of the	ınty.				
d. X=	·	_ feet, Y=		feet, N.M.	. Coordinate S				
		Gene Tades						,	
_	·	1335 Katy					, -		
		Comple							
evation of la	and surface or			at well is	S	_ ft. Total dep	th of well_42	2	
mpleted we	ll is 🍒 s	hallow 🗀 art	esian.	De	epth to water	upon completio	on of well 30	5	
Daniel	i. Fast		on 2. PRINCI	PAL WATER-	BEARING ST	RATA	T 5	1 777 11	
From	in Feet To	Thickness in Feet	Des	scription of Wa	ter-Bearing F	ormation		mated Yield ns per minute	e)
36	42	6	Sand a	and Clay S	tringers			35	
					·		 		
									
		1	0 11 1	DECORD OF	S C L GINIC		1		
Diameter	Pounds	Threads	Depth in		Length	Type of Sl	hoe	Perforations	s
(inches) 4 3/4	per foot 160psi	per in.	Тор	Bottom	(feet)	-,,,	F		<u>[o</u>
4)/4	Toopsi				42		22	2 42	
		Section	4. RECORD	OF MUDDIN	G AND CEMI	ENTING			
Depth From	in Feet To	Hole Diameter	Sacks of Mud		c Feet ement	Meti	hod of Place	ment	
	<u> </u>								
	L								
				5. PLUGGING	RECORD				
dress						Depth i		Cubic F	
te Well Plug	ged				_ 1	Тор	Bottom	of Ceme	nt
gging appro	vea by:	State Engine	eer Represent	ative	$-\begin{array}{ c c c c c c c c c c c c c c c c c c c$				
	T1 /	-	•	STATE ENG	<u> </u>	<u> </u>			
e Received	July 6	5, 1988				FWL		_ FSL	
File No	NO FILE	NUMBER		OBS		ocation No.			
				O 3C	L	ocation No.	20.30.2.	<u>*v</u>	

	Section 6. LOG OF HOLE								
Deptl	Depth in Feet Thickness Colored Town of Material Frances								
From	То	in Feet	Color and Type of Material Encountered						
0	3	3	Top Soil						
3 .	16	13	Caliche						
16	36_	20	Rock and Clay Stringers						
36	42	6	Sand and Clay Stringers						
			Z Elevation From Topo 3575'						
· · · · · · · · · · · · · · · · · · ·									
·									
			·						
 		<u> </u>	4						

Section 7. REMARKS AND ADDITIONAL INFORMATION

တ

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Krity Foots

INSTRUCTIONS: This form of the State Engineer. All

 ^{1}d be executed in triplicate, preferably typewritten, and submitted to as, except Section 5, shall be answered as completely and accurately drilled, repaired or deepened. I hen this form is used as a plugging record, only Section 1(a) and Section 5 1 sed be completed.

propriate district office ossible when any well is

STATE ENGINEER OFFICE WELL RECORD

FIELD LIGHT. LAS.

Section 1. GENERAL INFORMATION

Owner of Street or City and	well Post Office A State	Clyde A ddress 2 Hobbs,	rsbon 19 St A New Me	nne P xico	1ace 8824	0)wner's We	il No	
		t No. L							**************************************	·
		4 <u>NE</u> 4						Range	38-E	N.M.P.I
									,	11.174.1
b. Tract	No	of Map No.			of the _				·	
		of Block No							,	·
		feet, Y=			et, N.M	f. Coordinate	System			Zone
Drilling C	ontractor	C. M.	Griffi	n			License N	. WD-60)3	
lress	004 **	. Alte Dr								
		Comp	leted 6-3	-81		Type tools	Spudder	S	ize of hole.	10 _i
ation of lan	d surface or -	·		{	at well	is	ft. Total d	epth of we	119	<u>8</u> f
Depth i		Sect Thickness in Feet	ion 2. PRING	CIPAL W	ATER-	BEARING States			Estimated gallons per	Yield
38		88	Re	d San	d.		•	7	75	
Diameter	Pounds	Threads	Section Depth		ORD O	F CASING	Towns	- Char	Perfe	orations
(inches)	per foot	per in.	Тор	Botto	om	(feet)	Type of	Snoe	From	То
5/8			0	98		98	None	<u> </u>	78	98
1										
		S+:-	4 RECOR	D OF W	UDDIA	IC AND CEN	I			
Depth i	n Feet To	Hole Diameter	Sack of Mu	s	Cub	IG AND CEM pic Feet Cement		ethod of I	Placement	
-0		4.0	_				Co.T4	4 16 4		
38	<u>98</u>	10	2				Gel wi	UR WELL	,61	
			Section	1 5. PLU	GGING	RECORD		· · · · · · · · · · · · · · · · · · ·		
iress							Deptl	ı in Feet		ubic Feet
ging Method	i		····	<u> </u>		No.	Тор	Botto		f Cement
ging approv						2				
		· State Engi	neer Represe	ntative		<u>3</u>		1		
Received	June 9,	1981	FOR USE	OF STAT	E ENC	GINEER ONL	.Y			
. Veceivea				(Quad	108.4.	<u>⊿</u> FW	'L	FS1	L
ile NoL	-8458			1100	OM.		Location No.	20.38.2	.12	
				_ 036			LOCATION NO.		.1122	24/

	Section 6. LOG OF HOLE								
Deptl	n in Feet	Thickness	Color and Type of Material Encountered						
From	То	in Feet	Color and Type of Material Encountered						
0	3	3	Tep Seil						
3	28	25	red resk						
28	38	10	White rock						
38	88	x 50 50	red sand						
88	98	10	Red Clay						
		i	L S Elov3574						
			L S Elev						
<u></u>	 		Elev of K Trc 3486						
			. 2038 2 112224						
		 	Loc. No. 20.38, 2, 1/22, 24 Hydro. Survey Field Check 40						
		ļ	Hydro. Survey Fleta Check 4 0						
•									
<u> </u>		 	SOURCE OF ALTITUDE GIVEN						
			Interpolated from Topo. Sheet X						
•			Determined by Inst. Leveling						
			Other						
	 	 	Other:						
									
	<u> </u>	ļ							
	**								
	<u> </u>								

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

C/12 Leff Driller

STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner o	f well	Tom Whatle	<u> </u>				Owner's W	ell No	
Street or City and	Post Office A	ddress <u>Box</u> Monument,	N.M.						
'ell was drille	d under Permit	No. L-990) 4		and is locat	ed in the:			
2	1/4 1,	4 <u>N ½</u> ½X	NW 1/2 of Se	ection 2	Townshin	205	Range	28E	N.M.P.I
		of Map No							
		of Block No d in							
		_ feet, Y=							Zone i
) Drilling (Contractor	Alan Eade:	\$	· · · · · · · · · · · · · · · · · · ·		License 1	No. WD-	1044	
ddress	·	1335 Katy	Lane,	Hobbs,	N.M. 88	3240		· · · · · · · · · · · · · · · · · · ·	
rilling Began	3 -4-87	Comple	eted _3-	4-87	Type tools.	Rotary		Size of ho	ole <u>8</u> i
evation of la	nd surface or _		<u></u>	at w	ell is	ft. Total	depth of w	ell 80	f
ompleted wel	llis 🕮 s	hallow 🗀 art	esian.		Depth to wat	er upon comp	oletion of w	vell <u>57</u>	f
		Section	on 2. PRIN	CIPAL WAT	ER-BEARING	STRATA			
	in Feet	Thickness in Feet		Description o	f Water-Bearing	Formation			ted Yield per minute)
From	То		- 						
57	80	23	San	d and Sa	andy Red	clay		35	
						····			
			Sectio	n 3. RECOR	O OF CASING				
Diameter	Pounds	Threads		in Feet	Length	Type	of Shoe		erforations
(inches)	per foot	per in.	Тор	Bottom	(feet)	175		Fron	
5 3/4	160psi				80		·	60	80
								-	
				<u> </u>					
Denth	in Feet	Section Hole	4. RECO		DING AND CE				
From	То	Diameter	of M		of Cement		Method of	Placemer	1t
	ļ								
									
			Sectio	on 5. PLUGGI	NG RECORD				
						Der Top	th in Feet	tom	Cubic Feet of Cement
ite Well Plugg	ged					100	БОІ	COM	or coment
agging appro	ved by:				$\frac{2}{3}$				
		State Engine	eer Repres	entative	4				
			FOR USE	OF STATE F	ENGINEER ON	LY			
te Received	March	10, 1987			d		CWT		201
	T 0007								
File No	L-9904			UseD	OMESTIC	_ Location N	o. 20.3	8.2.114	424

Section 6. LOG OF HOLE								
Depth in Feet Thickness			Color and Type of Material Encountered					
From	То	in Feet	Color and Type of Material Encountered					
0	3	3	Top soil					
3	18	15	Caliche					
18	53	35	Sand					
53	57	4	Rock					
57	67	10	Sand					
67	80	13	Sandy Red Clay					
80			Red Bed					
			~ .					
· · · · · · · · · · · · · · · · · · ·			2 Elevation From Topo 3574					
			- 80					
			3504					
	· · · · · · · · · · · · · · · · · · ·							

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: This form of the State Engineer. Alldrilled, repaired or deer

ld be executed in triplicate, preferably typewritten, and submitted to as, except Section 5, shall be answered as completely and accurately hen this form is used as a plugging record, only Section 1(a) and Section 5 n ed be completed.

propriate district office ssible when any well is

70 38 2 21114

STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of	well <u>Cha</u>	rles Meyers IdressSt	D+	A Pov	190		Ov	ner's Well No.		
Street or City and	State	IdressSI	obbs. N.	M. 8824	40					
Vell was drilled	l under Permit	No. L-10,35	59		and i	is located	in the:			
a	_ ¼ _NW_ ¾	4 <u>NW</u> ¼ <u>N</u> E	¼ of Se	ection	2 To	wnship _	205	Range38	ßF	_N.M.P.M
b. Tract	No	of Map No		of	f the					
		of Block No d in								
		_ feet, Y=			_		System			Zone ii
-		41 1					· · · · · · · · · · · · · · · · · · ·			
_		Alan Eade								
•		Compl								
. •		Compi					•			
Completed wel		hallow 🗀 ar					upon complet			
			on 2. PRIN		_			•		
	in Feet	Thickness in Feet		Description	of Water-l	Bearing F	ormation		nated Y s per m	
From 55	83	28	Water	r Sand w	vith Sar	ndy Cla	ay and	(8	35	
				Sands						
							-			
		<u> </u>	Sectio	n 3. RECO	RD OF CA	ASING				
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Botton		ength feet)	Type of S	Shoe F	Perfora	tions To
5 3/4	160psi					83		5		83
							·			
						<u>-</u>				
Depth	in Feet	Section Hole	n 4. RECO		DDING A					
From	То	Diameter	of M		of Ceme		Me	thod of Placen	nent ———	
	· · · · · · · · · · · · · · · · · · ·						· · · · · · · · · · · · · · · · · · ·			
		<u> </u>								
Plugging Contra	actor			on 5. PLUG	GING REC	CORD				
Address		· ·				No.		in Feet		ic Feet
						1	Тор	Bottom	of (Cement
lugging approv						2				
		State Engir	neer Repres	entative		3 4				
Into Deserved	10/00/0		FOR USE	OF STATE	E ENGINE	ER ONL	Y			
Pate Received	12/08/93		•	Qı	uad		FWI	· ———	FSL_	
File No	L-10,359)		UseD	omestic	:	Location No	20S.38E.2	.21114	<u> </u>

			Section 6. LOG OF HOLE	
	in Feet	Thickness	Color and Type of Material Encountered	
From	То	in Feet		
0	3	3	Top Soil	
3	55	52	Fine Caliche	
55	63	8	Water Sand with Sandy Clay	
63	68	5	Water Sand with Sandstone Stringers	
68	70	2	Water Sand with Sandy Clay	
70	83	13	Water Sand	
			2 Elevation 3577	
			- 83	
			2494	
-				
				·93 DE
	-	Section 7	. REMARKS AND ADDITIONAL INFORMATION	무

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

of the State Engineer. A' drilled, repaired or deepen

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office ons, except Section 5, shall be answered as completely and accura' en this form is used as a plugging record, only Section 1(a) and Section

possible when any well is sed be completed.

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section	1 .	·	(A) O	or of wall		A.H.	HugHes	
			Street and	d Number	51	ARRI.	A. Box	40
							State	
								i is located in the
	. .		NEY	45E 4	NEV	of Section	2 Twp. 20	Rge. 38 6
	 -		— (B) Drill	ling Contr	actor 2	.L. Fuz	Ling, Lice	nse No. Wolse
			Street and	d Number.	312	s. Fow	red	
197	1 017 20	- 87-5	City				State	
								19 60
L	Dist of 640		Drilling v	was compl	eted	6-	10	19 60
•	Plat of 640	•	. f t l			Takal da		16
Elevatio	on at top o	i casing in	i leet above se	a level	LLOM) Donth to we	pth of well	+in 5 2
State w	netner we	II is snaiic	ow or artesian			Depth to wa	ter upon comple	tion a su
Section			PRIN	NCIPAL WA	ATER-BEAR	ING STRATA	vinter man,	
No.	Depth i	To To	Thickness in Feet		De	scription of Water	r-Bearing Formatio	מי
							0	
1	52	20	18			strua	tu San	L
2	84	100	16		22	ed Wa	tu sa	rl
3								
4						···		
5			<u> </u>		 			
Section	3			RECOR	RD OF CAS	SING		
Dia	Pounds	Thread	ds De	pth			Perfo	prations
in.	ft.	in	Top	Bottom	Feet	Type Shoe	From	То
14		wil	UR O	116	116	noshue	52	116
	<u> </u>							
	1			<u> </u>	<u> </u>			
Section	4		RECOR	RD OF MUL	DDING AN	D CEMENTING		
	h in Feet	Diamet		No. Sa				
From	То	Hole in	in. Clay	Cem	nent		Methods Used	
								
-								
								·
Cl 42 -	E			DILICO	SING REC	200		
Section :		.						
								•
					-			
								19
Piugging	g approved	ı by:	•			1	gs were placed as	follows:
			Racin Sur	orvisor	No.	From T	No. of	Sacks Used
		A V	Basin Sur		-	1 10111		
			E ENGINEER O	NLY				
Data	Received _	EER OFFIC	.VIE ENGINE	Λ				
Date		K 8: 3	SI TOT IS	المراس		<u> </u>		
			7			<u> </u>		
	;		Barrior Hills	7	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ 			
File No	1-20	61-5	6	Use 🔾	Mi.	Location	n No. 20.31	.2.242

LOG OF WELL

		<u>:</u>		
Depth From	in Feet	Thickness in Feet	Color	Type of Material Encountered
	 	 		
0	3	3	ļ	Sub Sail
3 3	33	30		Cleachie
	52	19		Soul Rock
52	70	18		Ist water sand
70	81	1/		Jack Sand
81	84	3		Hard Rock
84	100	16	}	2nd realer sand
800	116	16		nellow Class
				3577
·····				L S Elev
				Depth to K Trc 100
				Elev of KTrc-3-9/17;
	<u> </u>			Z. Du
				Loc. No. 20.38. 2, 2/2/2 Hydro. Survey Field Check X
				Loc. No. 20.38, 2, 2/2/2
				Hydro. Survey Field Check X
				SOURCE OF ALTITUDE GIVEN
ļ				· ·
				Interpolated from Topo. Sheet
				Determined by Inst. Leveling
				Other
	-			

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well. M. L. Fullingen Well Driller

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Depth in Feet Thickness in Description of Water-Bearing Formation	Section 1				(A) Owne	r of well	A	H. Haya	£ 05	
City HEADS and is located in the SET AND AND CONTROL TO AND IS CONTROL TO AND AND AND CONTROL TO AND AND AND CONTROL TO AND AND CONTROL TO AND AND CONTROL TO AND AND CONTROL TO AND AND AND AND CONTROL TO AND AND AND AND CONTROL TO AND AND AND AND AND AND CONTROL TO AND AND AND AND AND CONTROL TO AND									and the second s	
Well was drilled under Permit No. 2 CC 5 and is located in the SE No. 2 CC 5 and is located in the SE No. 2 CC 5 and is located in the SE No. 2 CC 5 and is located in the SE No. 2 CC 5 and is located in the SE No. 2 CC 5 and is located in the SE No. 2 CC 5 and is located in the SE No. 2 CC 5 and is located in the SE No. 2 CC 1				1					• •)1 im.
SE N. SE N. 11 St. N. of Section 2 Twp. 2 Section 3 Steed and Number 3 1.5 Street and Number 4 Section 5 PLUGGING RECORD Street and Number 4 Section 5 PLUGGING RECORD Street and Number 5 Section 5 PLUGGING RECORD Street and Number 6 Section 6 Section 6 Section 7 Section 7 Section 7 Section 8 Section 9 Section 8 Section 9 Sec					Well was	drilled un	nder Per	mit No. 4 -	20615 an	d is located in the
(B) Drilling Contractor. Di. L. Full Language Street and Number Clay Street and Number Clay (B) Drilling Contractor. Di. L. Full Language Street and Number Clay (City H. D.S. State D. En. 195. Drilling was commenced 1 195. Principal water and Number Clay RECORD OF CASING Perforations RECORD OF CASING Depth in Feet Thickness in Top Bottom Feet Type Shoe From To RECORD OF MUDDING AND CEMENTING Perforations RECORD OF MUDDING AND CEMENTING Depth in Feet Diameter Tons No. Sacks of Cement Methods Used RECORD OF MUDDING RECORD License No. License No. License No. License No. Treet and Number Clay State Type State Type State Type State OF FIGURE STATE ENGINEER ONLY PLUGGING RECORD License No. License No. License No. Depth of Plug were placed as follows: No. Depth of Plug No. of Sacks Used OF FIGURE NO. POR USE OF STATE ENGINEER ONLY APP 28 1958 OF FIGURE NO. POR USE OF STATE ENGINEER ONLY APP 28 1958 OF FIGURE NO. CROWNEDWARM SUPPLYMON. No. Depth of Plug No. Depth of Plug No. of Sacks Used OF FIGURE NO. Depth of Plug were placed as follows: No. Depth of Plug No. Depth of Plug No. of Sacks Used OF FIGURE NO. Depth of Plug No. of Sacks Used OF FIGURE NO. Depth of Plug No. of Sacks Used OF FIGURE NO. Depth of Plug No. of Sacks Used OF FIGURE NO. Depth of Plug No. of Sacks Used					SE 4	SEY)25	1/4 of Section	2 Twp. 20	5 Rge. 38 F
Street and Number 3/7) Few Lock City HIDDS State 19 19 5- Drilling was commenced 19 19 19 19 5- Drilling was commenced 19 19 19 19 19 19 19 19 19 19 19 19 19		i								
City #			ļ	- 1	Street and	Number.	317)1 Fow	LeR	
Drilling was commenced Proceeding Process Proces	<u> </u>									h hi.
CPlat of 840 acres Drilling was completed	1			1	Drilling w	as comm	enced	4-10		1953
Citat of 440 acress Citat of total category of casing in feet above sea level		<u> </u>								
PRINCIPAL WATER-BEARING STRATA No. Pepth in Feet Thickness in Peet Peet Peet Peet Peet Peet Peet Pee	(P Elevation	Plat of 640 and at top of	acres) f casing i		-					•
No. Depth in Feet Thickness in Feet Thickness in Feet Description of Water-Bearing Formation	State wh	ether we	ll is shall	ow o	r artesian_	5hA	LLOW	Depth to wa	ater upon comple	etion 5 2/
Prom To Feet	Section 2			•		CIPAL WA	ATER-BEA	RING STRATA		
RECORD OF CASING Comparison Comparison	No.			Thi			D	escription of Wate	er-Bearing Formation	on .
RECORD OF CASING Perforations In. Treads Top Bottom Feet Type Shoe Ferforations In. To Bottom To To RECORD OF MUDDING AND CEMENTING Depth in Feet Dlameter Tons Clay Cement Clay Cement From To Hole in in. Clay Cement Cons of Clay used Type of roughage Used Type of roughage Ulugging method used Date Plugging approved by: Cement Plugs were placed as follows: RECORD OF MUDDING AND CEMENTING RECORD OF MUDDING AND CEMENTING Cement Tons No. Sacks of Cement Cement Tons Of Roughage Used Type of roughage Ulugging method used Date Plugged 19 Cement Plugs were placed as follows: No. Depth of Plug No. of Sacks Used No. Depth of Plug No. of Sacks Used No. Depth of Plug No. of Sacks Used Prom To No. of Sacks Used	1	52	70		15		10	at water	, sand	
RECORD OF CASING Perforations In. Treads Top Bottom Feet Type Shoe Ferforations In. To Bottom To To RECORD OF MUDDING AND CEMENTING Depth in Feet Dlameter Tons Clay Cement Clay Cement From To Hole in in. Clay Cement Cons of Clay used Type of roughage Used Type of roughage Ulugging method used Date Plugging approved by: Cement Plugs were placed as follows: RECORD OF MUDDING AND CEMENTING RECORD OF MUDDING AND CEMENTING Cement Tons No. Sacks of Cement Cement Tons Of Roughage Used Type of roughage Ulugging method used Date Plugged 19 Cement Plugs were placed as follows: No. Depth of Plug No. of Sacks Used No. Depth of Plug No. of Sacks Used No. Depth of Plug No. of Sacks Used Prom To No. of Sacks Used	2	80			11.			& water	15 and	
RECORD OF CASING Dia Pounds Threads Depth Top Bottom Feet Type Shoe Perforations To	3				4					
RECORD OF CASING Dia Pounds Threads Depth Top Bottom Feet Type Shoe Perforations To	4			 			,			
RECORD OF CASING Dia Pounds Threads in Top Bottom Feet Type Shoe Perforations	5			-						
Dia Pounds in Treads in Top Bottom Feet Type Shoe From To Column		I.	··	1						•
in. It. In Top Bottom Feet Type Shoe From To 1/4	Section 3					RECOR	D OF CA	SING		
Section 4 RECORD OF MUDDING AND CEMENTING Depth in Feet Diameter Tons Clay No. Sacks of Cement PLUGGING RECORD State City State Cons of Clay used Tons of Roughage used License No. State Type of roughage Lugging method used Lugging approved by: Cement Plugs were placed as follows: PAPR 2 8 1958 OFFICE GROUND WATUR SUPPLISOR ROSSWELL NEW MATUR SUPPL			1				Feet	Type Shoe		
RECORD OF MUDDING AND CEMENTING Depth in Feet Diameter Tons No. Sacks of Cement Methods Used	14	14	Wilo	CLE	0	116	114	Meshore	52	116
RECORD OF MUDDING AND CEMENTING Depth in Feet Diameter Tons No. Sacks of Cement Methods Used						:		1 3 3 4 4 5 T	· · · · · · · · · · · · · · · · · · ·	
RECORD OF MUDDING AND CEMENTING Depth in Feet Diameter Tons No. Sacks of Cement Methods Used									<u> </u>	
PLUGGING RECORD PLUGGING RECORD PLUGGING RECORD PLUGGING RECORD Ame of Plugging Contractor treet and Number Or Clay City State Type of roughage lugging method used Date Plugging approved by: Cement PRO USE OF STATE ENGINEER ONLY APR 23 1958 Date Received OFFICE GROUND WATER SUPET VISCOP ROSWELL, NEW MIXMC.) No. Sacks of Clay Methods Used Plugging approved by: Cement Plugs were placed as follows: No. Depth of Plug No. of Sacks Used OFFICE GROUND WATER SUPET VISCOP ROSWELL, NEW MIXMC.)		1	1				<u> </u>	1	1	<u> </u>
ection 5 PLUGGING RECORD Tame of Plugging Contractor treet and Number City State Type of roughage lugging method used License No. Type of roughage lugging method used Date Plugged 19 Cement Plugs were placed as follows: No. Depth of Plug FOR USE OF STATE EXGINEER ONLY APR 23 1958 OFFICE GROUND WATER SUPETVISOR ROSWELL NEW MEMCA	Section 4	<u> </u>			RECORE	OF MUD	DING A		and the second of the second o	
ection 5 PLUGGING RECORD Identify Contractor Interest and Number City State Ons of Clay used Interest and Number Tons of Roughage used Interest and Number Tons of Roughage used Type of roughage Interest and Number Type of roughage Type of roughage Type of roughage Interest a	Depth	in Feet	Diame	eter	Tons	No. Sa	cks of		Mathada II.ad	· · · · · · · · · · · · · · · · · · ·
ection 5 PLUGGING RECORD Interest and Number City State Ons of Clay used Tons of Roughage used Iugging method used Iugging approved by: Cement Plugs were placed as follows: Por use of State Engineer only APR 23 1958 OFFICE GROUND WATER SUPE VISCOR ROSWELL, NEW MEMICO	From	То	Hole in	ı in.	Clay	Cem	ent	r e digendo e e	Methods Used	
PLUGGING RECORD Idame of Plugging Contractor Interest and Number City State Type of roughage lugging method used Date Plugged 19 Cement Plugs were placed as follows: No. Depth of Plug No. of Sacks Used							ž	A.		
PLUGGING RECORD Idame of Plugging Contractor Interest and Number City State Type of roughage lugging method used Date Plugged 19 Cement Plugs were placed as follows: No. Depth of Plug No. of Sacks Used										
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treet and Number City State ons of Clay used Tons of Roughage used Type of roughage lugging method used Date Plugged 19 lugging approved by: Cement Plugs were placed as follows: No. Depth of Plug From To No. of Sacks Used APR 28 1958 OFFICE GROUND WATER SUPPLAISOR ROSWELL, NEW MEMICO			.							
Tons of Roughage used Date Plugged										
lugging method used lugging approved by: Cement Plugs were placed as follows: No. Depth of Plug No. of Sacks Used FOR USE OF STATE ENGINEER ONLY APR 23 1958 OFFICE GROUND WATER SUPPLYISOR ROSWELL, NEW MEXICO							_			
Tor use of State Engineer only Date Received APR 28 1958 OF FICE GROUND WATER SUPER VISOR ROSWELL, NEW MEXICO		•						· ·		
FOR USE OF STATE ENGINEER ONLY Date Received OFFICE GROUND WATER SUPPLISOR ROSWELL, NEW MEMCO							· · · · · · · · · · · · · · · · · · ·			
FOR USE OF STATE ENGINEER ONLY APR 28 1958 OFFICE GROUND WATER SUPER VISOR ROSWELL, NEW MERICO	Plugging	approved	by:				· .	Cement Plu	gs were placed a	s follows:
Date Received APR 28 1958 OFFICE GROUND WATER SUPER VISOR ROSWELL, NEW MEXICO					, n-192	-	N	^ i	No. o	f Sacks Used
OFFICE GROUND WATER SUPETVISOR ROSWELL, NEW MEMICO		FOR USE	OF STAT	ME EX	GINEER ON	C.Y				
OFFICE GROUND WATER SUPETVISOR ROSWELL, NEW MEMICO		; ;		ממוּ	0.0 40°0					
GROUND WATER SUPERVISOR ROSWELL, NEW MEXICO	Date F	Received _				P/=				
ROSWELL, NEW MEMICO		, (GPO							
1 30116		i	4							
		1 30	,, ,			()		_	- 01 39	2 244

Depth From	in Feet	Thickness in Feet	Color	Type of Material Encountered
0	3	3	, ,	Suf Sail
3	33	30		Suf Sail Cleachje
33	52	19		Sand Rock
52	70	18		1st water Sond
78	81	11		. Pack Sand
81	84	3		look
84	100	16		2 nd poster Sand
100	116	16	(Marie Sandara Varance Sandara - 3 - ARTA) year in macapata (2-14), ya in magaman maga	yellow Clay
				0
	:			L S Elev
				Depth to KTrc/00
	İ			Elev of KTrc_3480 ?
			····	
	:			Loc. No. 20.38, 2, 242223
				Hydro. Survey Field Check X
	!			SOURCE OF ALTITUDE GIVEN
				Interpolated from Topo. Sheet X
				Determined by Inst. Leveling
	:			Other
				Outel
	:			
	:			

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Section 1. GENERAL INFORMATION

Street or City and	Post Office A State	ddress 141 HOB	O W. CO BS, NM	88240) AD			
ll was drilled	l under Permi	t No. <u>1-438</u> ,	L-2124, Comb. (L-2125 &	and is located	l in the:		500
					•	20-S Ran		
b. Tract	No	of Map No.		of t	the			ers :
		of Block No ed in						
		feet, Y=			N.M. Coordinate	System		Zone in
Drilling C	ontractor	ABBOTT	BROTHER	S DRLG.		License No	WD-46	· · · · · · · · · · · · · · · · · · ·
dress	P.O. BO	X 305	нов	BS. NM	88240	· · · · · · · · · · · · · · · · · · ·		
lling Began .	XXXXXX 1	<u>-24-9</u> 6 _{Comp}	leted	14-96	Type tools	CABLE	Size of h	ole <u>22"</u> in.
vation of lar	d surface or .	····		at w	vell is	ft. Total depth	of well	ft.
npleted well	is XX s	shallow 🗀 a	rtesian.		Depth to water	upon completion	of well	35 t ft.
D. at :	- FA	T	ion 2. PRIN	CIPAL WAT	ER-BEARING ST	RATA		
Depth i	To To	Thickness in Feet	1	Description o	of Water-Bearing F	ormation		ited Yield per minute)
35	85	50	s	AND W∠R	OCK			
	·			····			· · · · · · · · · · · · · · · · · · ·	
			Section	ı 3. RECOR	D OF CASING			
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Bottom	Length (feet)	Type of Shoe	Fro	erforations m To
16	42	WELDED	0	85	85	NONE		
		Sa a di a	4 PECOT	D OF MUD	DING AND CEN	ENTING		
Depth i	n Feet	Hole	Sack		Cubic Feet		i of Placeme	
From	То	Diameter	of Mu	ıd	of Cement	Method		
						,		
							· · · · · · · · · · · · · · · · · · ·	
		······································	·		NIG PEGG-			
ooino Contra	ctor	··			ING RECORD			
dress			 		No.	Depth in F		Cubic Feet
-						Тор	Bottom	of Cement
gging approv					2			
	·	State Engi	neer Represe	ntative	3 4			
			EOD UCE	OF OT AME	ENGINEED OV	v		
e Received	02-21-96	5	ruk use (or siairi	ENGINEER ONL	1		
T	_438_ I:	2124, L-212	5 &	Qua	nd	FWL		FSL
		nb. (T)-A	_	_ Use	terflood	Location No. 20.	38.2.311	323

Section 6. LOG OF HOLE Depth in Feet Thickness Color and Type of Material Encountered in Feet From To ROCK 26 6 20 29 SAND 62 ROCK 55 SAND 62 80 18 RED BED 85 80 3*5*780 86 3500

Section 7. REMARKS AND ADDITIONAL INFORMATION

ROSWELL NEW MEXICO . 96 FEB 21 AM 11 22

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Floya allest Driller Ginda Jaylon

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer ctions, except Section 5, shall be answered as completely and accura possible when any well is drilled, repaired or deep. When this form is used as a plugging record, only Section 1(a) and Section eed be completed.

Market of Mile Constitution

		Two	•		AL INFOR		WAKKE	N WATER		
A) FOwner of	f wellCOI	NOCO, INC Address 10	DESTA DI	RIVE,	SUITE	100W	Ov	vner's Well N	NO. WEL	.L. # 1
City and	State	MID MID	LAND, T	EXAS	79705					
/all was deille	L-438,L-	-2124,L-2 it No	2125 & 2	126 CO	MBINED	(T)	A-S			•
				•						
a	_ ¼ <u>NW</u>	14 NW 14 S	₩ ¼ of Se	ection2	To	wnship .	20-S	Range 38	<u>-r</u>	N.M.P.I
b. Tract	No	of Map No	o		of the					
c. Lot N Subdi	o vision, record	_ of Block No. ed in	LEA	(of the					
	•									-
a. X= the		reet, Y=		re	et, N.M. Co	oordinate	System			Zone : Gran
	- 7	ል ጽጽሰጥጥ ቹ	ROS DR	TI.I.TNG	<u>.</u>			WD-	46	
·							License No.			
ddress	·	P.O. BOX	637, H	OBBS,	NEW ME	XICO	88240		101	= 20!
rilling Regan	 9/13/9)3 Com	nleted 9	/30/93	Tyn	e tools	CABLE	Size		X 30" X 24" ii
							•		•	
levation of lai	nd.surface or			<u>-</u> 8	at well is		ft. Total de	oth of well_		f
ompleted wel	l is	shallow 🔲	artesian.		Depth	to wate	er upon complet	ion of well_	23	f
		Ç.	ation 2 DDIN	CIDALW	ATED DE A	DINC	TD 4 T 4	•		
Depth	in Feet	Thicknes	ction 2. PRIN	CIPAL W.	AIEK-BEA	KING 5	OIKAIA	Fe	stimated	Yield
From	То	in Feet		Descriptio	n of Water-	Bearing	Formation		ons per	
23	76	53	SAI	ND					350	
	70	1 23	JA	<u> </u>			·····			·
								·		
		<u></u>								
			Sectio	n 3. REC	ORD OF C	ASING	- p	·	·-··	
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Botto		ength (feet)	Type of S	Shoe	Perfo From	rations To
()		- Por an	ТОР	1			 		FIOII	10
24"	63	NA		20	2	20	NONE			
16"	46	WELDED	0	101	10	1	NONE		21	101
				<u> </u>						
			ion 4. RECO	·			MENTING			
Depth From	in Feet To	Hole Diameter	Sack of M		Cubic F of Ceme	- 1	Me	thod of Plac	ement	
·			1							
0	20	30	READY-M	IX	2 YDS	•	POURED			
4		Ì	}	j			·			
										· · · · · · · · · · · · · · · · · · ·
1						L				
			Sectio	n 5. PLUC	GGING RE	CORD				
ugging Contra	ictor									
						No.		in Feet		bic Feet
						1	Тор	Bottom	- 01	Cement
ugging approv						2				
			D.			3	1	<u></u>		
,		State En	gineer Represe	entative		4				

WF

__ Location No. ____20.38.2.311

20.38.2.3//

File No. L-438, L-2124, L-2125 & L-2126- Use Comb. (T) A-S

			Section 6. LOG OF HOLE
Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered
. 1			
0	6	6	GRAVEL AND SAND
6	18	12	SAND ROCK
18	44	26	SAND
44	50	6	ROCK
50	76	26	SAND
ı lir		·	
76	100	24	RED BED
		 	
	· · · · · · · · · · · · · · · · · · ·		
		,	2 Elevation Trap 3579
			2 Elevation Tops 3579 - 76
			5025
·			
	-		
		·	

Section 7. REMARKS AND ADDITIONAL INFORMATION

ROSWILL OF MEXICO 93 00T 6 RM 11 21

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell abbott Driller 21.8.

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All se except Section 5, shall be answered as completely and accurate ossible when any well is drilled, repaired or deepened. his form is used as a plugging record, only Section 1(a) and Section 1 be completed.

INSTRUCTIONS That the pull to recognition of the State Unitmon. Aix of the State Unitmon. Aix of the state of the drilled, repaired a decrease of the state of th

A 10

File No._

FIELD ENGR. LOG

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	1	N/E	- 1			~	۱0	n		

escribed hore.			Section 1	I. GENER	RAL INF	ORMATIO	Ŋ	٠. `	Recl	amatio
A) III Owner of	well Cit	y of Hobb)S				· · · · · · · · · · · · · · · · · · ·	wnei's We		
Street or	Post Office A	d _{dress} P.O. Hobbs, Ne	Box 1	117	88240)			 	
City and	State	HODDE HE	WILCHE	00	00270	,				
ell was drilled/	under Permit	No. L-755	59		a	ind is located	in the:			
a	_ ¼ ⅓	4¼ <u>S</u> 1	¼ of Se	ection	2	Township_	20\$	Range	38E	N.M.P.M
b. Tract l	No	of Map No.			of the _				· · · · · · · · · · · · · · · · · · ·	
c. Lot No	o	of Block No			of the_			#		
Subdiv	rision, recorde	of Block No d in	Lea		Cou	nty.				
		_ feet, Y=		fe	et, N.M.	Coordinate	System			Zone in Grant.
3) Drilling C	ontractor	Abbott I	Bors.				License No	WD-4	46	
ddress F	0.0.Box	637, Hobb	s, New	Mexi	co	88240				
rilling Began _	5/76	Comp	leted	6/	76 1	ype tools_	Cable	Si	ize of hole_	<u>8</u> in.
evation of lan	: d surface or -	· · · · · · · · · · · · · · · · · · ·			at well is		ft. Total de	pth of we	<u>11 80</u>	ft.
ompleted well	; X ,	hallow 🔲 aı	tesian		De	enth to water	r upon comple	tion of we	ո 43	· ft
Simpleted wen	13 22 3	ţ				BEARING ST		non or wo		
Depth i	n Feet	Thickness		Descriptio	n of Wa	ter-Bearing I	Formation		Estimated	
From	То	in Feet				tor-boaring i		- (1	gallons per r	ninute)
43 ½	80	36 <u>분</u>	Sa	nd					37	
İ	: 									
† }		1								
				•	1 11					.,
	i		Sectio	n 3. REC	ORD OF	CASING		,		
Diameter	Pounds	Threads	Depth	in Feet		Length	Type of	Shoe		ations
(inches)	per foot	per in.	Top	Botto	om	(feet)		<u></u>	From ss stee	To 1 scre
6/5/8	15	Welded	0 :	80		80	17.50		65	80
]
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				L			<u> </u>		<u> </u>	<u> </u>
						G AND CEM	ENTING			
Depth i	n Feet To	Hole Diameter	Sacl of M			c Feet ement	Me	ethod of F	Placement	
	!	:						···		
							<u> </u>			
70			Sectio	on 5. PLU	GGING	RECORD				
	•	·								
	d	·				No.	Dep th Top	in Feet Botto		bic Feet Cement
ite Well Plugge	ed	···				_ 1	TOP	Botte	JIII	Coment
ugging approv	ed by:		1			2				
- 1	1- •	State Engir	neer Repres	entative		- <u>3</u>				
<u> </u>		1	FOR USE	OF STAT	E ENC	NEER ONL			×	
te Received		_1						a :		A
non l	1.	· 1555		(Quad		FW	L _ <i>YO.</i>	► FSL	1620

Location No. 20.38.2.3/2/2

Section 6. LOG OF HOLE Depth in Feet Thickness Color and Type of Material Encountered From in Feet To Dail Receiva 1 30 29 Caliche <u>1:30 = </u> <u> 140</u> 10 Sand illar at 拉性 热性 包 <u> 40 ii</u> 12 Sand rock $s_{V}(\eta) \approx$ 24 1, 52 a 76 Sand 76 80 4 Red clay L S Elev Depth to K_ Trc: 76 13.4 Elev of K Trc 3516

Section 7. REMARKS AND ADDITIONAL INFORMATION

SOUTH HILL OFFICE

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell Abbott, Driller H.B.

INSTRUCTIONS: This for ould be executed in triplicate, preferably typewritten, and submitted to appropriate district office of the State Engineer. All ons, except Section 5, shall be answered as completely and accurate possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

Section 1. GENERAL INFORMATION

Street or	Post Office A	NOCO, IN ddress 1410 BBS, NM	W. COUNTY R	OAD			· · · · · · · · · · · · · · · · · · ·	WATERET DO
-		L-438.	L-2124,	L-2125				
					2 Township			
b. Tract	No	of Map No	•	of	the	**************************************	<u></u>	
		of Block No.			the			····
					, N.M. Coordinate			
Drilling C	Contractor A	BBOTT BR	OTHERS	DRILLIN	IG	License NoWI	0-0046	
iress	. Р	.o. BOX	305	нов	BS, NM 88	240		
ling Began .	2-2-96	Com	pleted <u>2</u> :	-10-96	Type tools	CABLE	Size of hole_2	2 in.
				,	well is			
						·		
ipleted well	lis 🕰 s	shallow 🔲 :	artesian.		Depth to water	upon completion of	of well35	ft.
Depth	in Fieet	Sec Thickness		CIPAL WA	TER-BEARING ST	RATA	Estimated Yi	ald
From	То	in Feet	1	Description	of Water-Bearing F	ormation	(gallons per mi	
35	80	45		SAND W	/ROCK			
							· .	
		<u> </u>			· · · · · · · · · · · · · · · · · · ·			
	 							
					RD OF CASING			
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Bottom	Length (feet)	Type of Shoe	Perforat From	ions To
16	42	WELDED	0	80	80	NONE	20	80
		USUBBU		00		HURE		
			,					
	·····							
Depth i	n Feet	Secti Hole	- 		ODING AND CEMI	ENTING		
From	То	Diameter	Sack of Mu		Cubic Feet of Cement	Method	of Placement	
Ì								
						· · · · · · · · · · · · · · · · · · ·		
		1						
1		1	<u> </u>					
					GING RECORD			
						Depth in Fe	eet Cubi	c Feet
ging Metho	d				No.			ement
c well Plugg gging approv					2			
		State Eng	ineer Represe	ntative	3 4			
			FOR Her	OF STATE	ENGINEER ONLY			
			TOW ODE	OIVIC	PROTUPER ONF	•		
Received	02-21-96		•		ad		·	

			Section 6, LOG OF HOLE
	h in Feet	Thickness in Feet	Color and Type of Material Encou
From	То	m reet	octor and Type of National Breek
20	55	35	SAND W/ROCK
55	60	5	ROCK
60	77	17	SAND
77	80	3	RED BED
			· · · · · · · · · · · · · · · · · · ·
			L5058
			CL-
			15828 squi mut noithness 22 107-
· 			
	· · · · · · · · · · · · · · · · · · ·		

Section 7. REMARKS AND ADDITIONAL INFORMATION

27 TIME TO BEST 96.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Floyd alhott Driller Lynda Taylor

Section 1. GENERAL INFORMATION

Street or	well	ddress 10	Desta I	oc. Drive,	Suite	100		ren Water er's Well No	rflood #
City and	State	Mic	dland, 1	Cexas	797)5-45	00		
ell was drilled	L I under Permi	-438,L-2 t No	124,L-2	125 & 2	126 (an	COMBI	NED (T) A-S led in the:	-2	
a	_ ¼ _SW	14 NW 14	SW ¼ of S	ection2	1	ownship	20S Ra	nge38E	N.M.P.
b. Tract	No	of Map No)	ol	the			· · · · · · · · · · · · · · · · · · ·	
		of Block No.							· · · · · · · · · · · · · · · · · · ·
		feet, Y=					te System	·	Zone
) Drilling C	Contractor	Abbott	Bros.	Drilli	ng		License No	WD-46	
ldresè		P.O. I	3ox 637,	Hobbs	, Nev	Mex	ico 88240		·
							Cable	18:	x 30" x 22"
evation of lar	nd surface or .			at	well is_		ft. Total depth	of well	97
ompleted well							ter upon completion		
mpicted wen			ction 2. PRIN				•	. 01	
Depth i		Thickness in Feet	5	Description	of Wate	r-Bearing	g Formation		ed Yield er minute)
From	То								
28	80	52	Sa	nd				25	0
									······································
		_1	Section	on 3. RECO	RD OF	CASING			
Diameter	Pounds	Threads		in Feet		Length	Type of Sh	Pe	rforations
(inches)	per foot	per in.	Тор О	Botton 18	1	(feet)	Type of Silv	From	To_
16	42	Welded	Ŏ	98		98	None	70	97
	·								
,]	······································	Sect	ion 4. RECO	RD OF MU	DDING	AND CE	MENTING	L	
. Depth i		Hole Diameter	Sac of M		Cubic of Cer		Meth	od of Placemen	t
From	То	Diameter	OI W	iuu -	or cer	ient			
	20	30	Ready-	mix	1½ Y	ds.	Poured		
0	20			ı					
0	20								· · · · · · · · · · · · · · · · · · ·
0	20		Section	on 5. PLUG	GING R	ECORD			
gging Contra	ctor					ECORD			
gging Contra	octor					ECORD No.	Depth in	Feet Bottom	Cubic Feet of Cement
gging Contra dress gging Method te Well Plugg	dd					No.			
ngging Contra Idress ———————————————————————————————————	dd								

____ Location No._

File No. L-438, L-2124, L-2125 & L-2126 Use Comb.-A-S-2 (T)

Section 6, LOG OF HOLE Depth in Feet Thickness Color and Type of Material Encountered in Feet From 0 6 6 Gravel and sand 6 18 12 Sand rock 4 18 22 Rock 13 Calichie w/rock 22 35 35 <u>52</u> 17 Sand 6 **52** 58 Rock **58** 77 19 Sand 3 77 80 Brown sandy clay Red bed 80 97 17 7 Elevation From Topo 3585

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell Allotto Driller 2/B

of the State Engineer. All sec' drilled, repaired or deepened. V

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office except Section 5, shall be answered as completely and accurately a is form is used as a plugging record, only Section 1(a) and Section 5 κ

ble when any well is completed.

FIELD	Elign.	
-------	--------	--

	Cit	y of Hob			INFORMATIO			Reclam #		
Street or	Post Office A	Address P.O Hobbs, No	. Box l	 (Own	ner's Well	No		
Well was drilled	i under Permi	it No. L-	7559		and is locate	ed in the:				
			ວຂ			20S R	ange	38E	N.M.P.M.	
b. Tract	No	of Map No		of th	e					
c. Lot N	0,	_ of Block No	- - a	of th	e				<u></u>	
						- O			7 !	
		reet, r=				e System			Zone in Grant.	
(B) Drilling (Contractor	Abbott	Bros.			License No	Wd-	- 46		
Address	P.O. Bo	х 637, H	obbs, N	ew Mexic	o 8824	0				
Drilling Began	5/76	Com	pleted	6/76	Type tools _	Cable	Siz	e of hole_	8in.	
Elevation of la	nd surface or			at we	ell is	ft. Total dept	h of well	75	ft.	
Completed wel	l is 🔼	shallow 🗀 .	artesian.		Depth to water	er upon completic	on of well	41	ft.	
Denth	in Feet	Sec		ICIPAL WATE	R-BEARING S	STRATA		Estimated \	Vield	
From	То	in Feet	<u> </u>	Description of	Water-Bearing	Formation		allons per n		
41	75	34	Sa	nd	·····	1		18	18	
		<u> </u>								
										
				4	1.F	***				
		· · · · · · · · · · · · · · · · · · ·	Section	on 3. RECORD	OF CASING		····		·····	
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Bottom	Length (feet)	Type of Sh	ioe	Perfor From	ations To	
6 5/8	15	Welded	0	75	75	15' stair	less	steel 60	screen 75	
			W. 1							
		Secti	on 4. RECO	RD OF MUDD	DING AND CE	MENTING				
Depth From	in Feet To	Hole Diameter	Sac of M		ubic Feet f Cement	Meth	hod of Placement			
1 1011								· 		
							 			
										
			<u> </u>							
Divasina Contr				on 5. PLUGGIN	NG RECORD					
Address						Depth in	ı Feet		bic Feet	
Date Well Plugg	ged					Тор	Bottor	m of	Cement	
Plugging approv	ved by:				2					
Ţ		State Eng	ineer Repres	entative	3 4					
D-4.2 D			FOR USE	OF STATE E	NGINEER ON	 LY				
Date Received				Quad		FWI	176	5 FSL	2600	

____ Location No. <u>20.38. 2.32121</u>

			Section 6. LOG OF HOLE
Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	1	1	Surface Soil
1	25	24	Caliche
25	40	15	Sand
40	72	32	Sand
72	75	3	Red Clay
			L S Elev 3570 / I S Stimate 3575 Depth to K Trc 72 Elev of K Trc 3498 3503
			Depth to K Trc 72 3 503 1 503
			Loc. No. <u>20.38.2.32121</u> Hydro. Survey Field Check 1
	,		Hydra. Surveyrield_Check
			SOURCE OF ALTITUDE GIVEN
			Interpolated from Topo. Sheet
			Other
			·
	-		
	_		
	, ,		
		Section 7	REMARKS AND ADDITIONAL INFORMATION

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell Abbott
Driller N.B

INSTRUCT!ONS: This for ould be executed in triplicate, preferably typewritten, and submitted t of the State Engineer. All ons, except Section 5, shall be answered as completely and accurate. drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

appropriate district office possible when any well is

STATE ENGINEER OFFICE

FIELD LINER, LEA

WELL RECORD

Section 1. GENERAL INFORMATION Monitoring ____ Owner's Well No. ___E City of Hobbs Street or Post Office Address P.O. Box 1117 City and State Hobbs, New Mexico 88240 Well was drilled under Permit No. <u>L-7559</u> and is located in the: a. $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ of Section $\frac{1}{2}$ Township $\frac{20S}{20S}$ Range $\frac{38E}{20S}$ N.M.P.M. ___ of Map No. _____ of the __ c. Lot No. _____ of Block No. _____ of the ____ Subdivision, recorded in ____ Lea ____ County. _____ feet, Y=_____ feet, N.M. Coordinate System_____ (B) Drilling Contractor Abbott Bros. License No. WD-46 Address P.O. Box 637, Hobbs, New Mexico 88240 Drilling Began 5/76 Completed 6/76 Type tools Cable Size of hole 6 in. at well is_____ ft. Total depth of well 75 ft. Elevation of land surface or _____ Depth to water upon completion of well $41\frac{1}{2}$ ft. Completed well is shallow artesian. Section 2. PRINCIPAL WATER-BEARING STRATA Depth in Feet Thickness Estimated Yield Description of Water-Bearing Formation in Feet (gallons per minute) From 41분 75 33号 Section 3. RECORD OF CASING Pounds Depth in Feet Perforations Diameter Threads Length Type of Shoe (inches) per foot per in. Bottom (feet) Тор From To 15'plastic screen Plastic Glued 75 75 60 75 Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Hole Sacks Cubic Feet Method of Placement Diameter of Mud From of Cement Section 5. PLUGGING RECORD Plugging Contractor ___ Address Depth in Feet Cubic Feet No. Plugging Method _ of Cement Top Bottom Date Well Plugged_ Plugging approved by: State Engineer Representative FOR USE OF STATE ENGINEER ONLY Date Received FWL 1665 FSL 2630

Use _____ Location No. 20.38.2.32/2//

File No. 2 - 7559

	Section 6. LOG OF HOLE					
	in Feet	Thickness	Color and Type of Material Encountered			
From	То	in Feet				
0	1	1	Soil			
1	28	27	Caliche			
28	40	12	Sand			
40	42	2	Sand			
42	51	9	Sand rock			
51	70	19	Sand			
70	75	5	Red Clay			
<u> </u>						
			L S Elev			
			L S Elev <u>3570</u> Depth to K Trc <u>70</u> Elev of K Trc <u>3500</u>			
			Elev of KTrc_3500			
			Loc. No. 20.38. 2.321211			
	<u>.</u>		Loc. No. 22. 55. 2. 32/2// Hydro, Survey Field Check			
			SOURCE OF ALTITUDE GIVEN			
			Interpolated from Topo. Sheet			
			Determined by Inst. Leveling			
			Other			
	• • • •					

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell abbott
Driller N.B

INSTRUCTIONS: This for

INSTRUCTIONS: This for ould be executed in triplicate, preferably typewritten, and submitted to of the State Engineer. All ons, except Section 5, shall be answered as completely and accurate. drilled, repaired or deepened When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

appropriate district office possible when any well is

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			Section 1	. GENERAL IN	IFORMATION	1		Recla	amation
A) Owner of	wellCi1	ty of Hob	obs Por	Owner	's Well No.	4			
Street or City and	Post Office Ac State Ho	ddress P.C	w Mexic	8824C)				
								_	
a	_ ¼ ½	4 ¼	¼ of Se	ction2	Township	20S Ran	ge <u>38.</u>	E	_N.M.P.M.
b. Tract	No	of Map No.		of the					
c. Lot N	0	of Block No		of the.					
Subdi	vision, recorde	d in	Lea	Co	ounty.				
d. X=		_ feet, Y=		feet, N.1	M. Coordinate	System	·		Zone in
the		New sur			, ,			•	Grant.
B) Drilling (Contractor	Abbott I	Bros.			License No	WD-4	6	
ddress	P.O. Box	к 63 7, Но	obbs, N	ew Mexico	88240)			
						Cable	0:		8 .
~ -		_							
levation of las	nd surface or _	<u></u>	~	at well	. is	ft. Total depth	of well	75	ft.
ompleted wel	lis 🏌 si	hallow 🗀 a	rtesian.	Ι	Depth to water	upon completion	of well	44	ft.
		Sect	tion 2. PRIN	CIPAL WATER	-BEARING ST	ΓRΑΤΑ			
Depth	in Feet	Thickness		Description of W				nated Y	
From	То	in Feet				Officiation	(gallons per minute)		
44	75	31	Sar	Sand			20		
				•					
							<u></u>		
,	· · · · ·			n 3. RECORD (OF CASING				
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Bottom	Length (feet)	Type of Shoe	•	Perfora rom	To
6 5 /0	7.5	Waldad	0 -	75	75	15" stair		stee	l scree 75
6 5/8	15	Welded	0 -	17	75		- 00		15
		1							
		 		1					ľ
		Section	on 4. RECOI	RD OF MUDDI	NG AND CEM	ENTING			
Depth		Hole	Sack	cs Cul	bic Feet		d of Placer	nent	
Depth From	in Feet To	1	T	cs Cul			d of Placen	nent	
		Hole	Sack	cs Cul	bic Feet		d of Placer	nent	
		Hole	Sack	cs Cul	bic Feet		d of Placen	nent	
		Hole	Sack	cs Cul	bic Feet		d of Placer	nent	
		Hole	Sack	cs Cul	bic Feet		d of Placer	nent	
From	То	Hole Diameter	Sack of Mu	n 5. PLUGGING	bic Feet Cement		d of Placer	nent	
From	To	Hole	Sack of Mu	n 5. PLUGGING	bic Feet Cement	Method			No East
From ugging Contra ddress ugging Metho	Tod	Hole Diameter	Sack of Mu	n 5. PLUGGINO	bic Feet Cement	Method Depth in F		Cul	oic Feet Cement
From ugging Contra ddress ugging Metho ate Well Plugg	To ded	Hole Diameter	Sack of Mu	n 5. PLUGGINO	bic Feet Cement	Method Depth in F	reet	Cul	
From lugging Contra	To ded	Hole Diameter	Sack of Mu	n 5. PLUGGING	G RECORD No.	Method Depth in F	reet	Cul	

Exp. Location No. 20.38. 2.32233

Section 6. LOG OF HOLE				
Depth	in Feet	Thickness	Color and Type of Material Engagetered	
From	То	in Feet	Color and Type of Material Encountered	
0	3	3	Surface soil	
_3	38	35	Caliche	
38	42	4	Sand	
42	50	8	Sand rock	
50	72	22	Sand	
72	75	3	Clay	
i	_			
			L S Elev	
			L S Elev	
			Loc. No. 20.38.2.323	
			Hydro. SurveyField Check	
	··· -			
			SOURCE OF ALTITUDE GIVEN.	
			Interpolated from Topo. Sheet X	
			Other.	
	<u> </u>	уу		

Section 7. REMARKS AND ADDITIONAL INFORMATION

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Erena System	La !
Merres	ς
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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: This for of the State Engineer. All

ould be executed in triplicate, preferably typewritten, and submitted to ons, except Section 5, shall be answered as completely and accurate. drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5, need he completed

appropriate district office possible when any well is

HELD ENER. LES

STATE ENGINEER OFFICE WELL RECORD

WELL RECORD

. * 1			Section 1	. GENERAL IN	NFORMATION		Mo	nitor	ing
) Owner of	wellCi	ty of Ho	obbs			Own	er's Well No.	D	
Street or	Post Office Ad	Idress Page New	<u>). Box 1</u> Mexico	.117 88240					
•		_							
ll was drilled	under Permit	No. L-	7559		and is located	in the:			
a	_ ¼ ¼	4	5 <u>1</u> ¼ of Sec	ction2	Township	20S Ra	inge3	8E	N.M.P.
b. Tract l	No	of Map No	•	of the					
c. Lot No	D	of Block No	·	of the					
Subdiv	rision, recorded	d in <u>Lea</u>	a	C	ounty.				
						System			_Zone _Grai
Drilling C	ontractor Ab	bott Bro	os.			License No	wd-46		
lling Began _	5/76	Com	pleted <u>6</u>	/76	Type tools	Cable	Size of	hole6	i
vation of lan	d surface or _			at well	is	_ ft. Total deptl	h of well	75	
mpleted well	is 🖾 sl	nallow L	artesian.]	Depth to water	upon completio	n of well	40	1
·		Sec	tion 2. PRING	CIPAL WATER	-BEARING ST	RATA			
Depth is		Thickness in Feet	L	Description of W	Vater-Bearing F	ormation		nated Yiel per min	
From	То					· · · · · · · · · · · · · · · · · · ·	(ganons	per mini	<u> </u>
46	75	29				· · · · · · · · · · · · · · · · · · ·			
						7-1			
			Section	a 3. RECORD (OF CASING				
Diameter	Pounds	Threads	Depth i	in Feet	Length	Type of Sh	oe 	Perforation	ons
(inches)	per foot Plastic	per in.	Top	Bottom	(feet)		From Plastic		<u>To</u> en
4	2	Glued	0	75	75		60		75
		<u> </u>							
		Secti	on 4. RECOR	D OF MUDDI	NG AND CEM	ENTING			
Depth in	n Feet To	Hole Diameter	Sack of Mu		bic Feet Cement	Meth	Method of Placement		
- 110111									
,									
									
			Section	5. PLUGGING	G RECORD				
-	ctor								
	1				No.	Depth in		Cubic of Ce	
	ed					Тор	Bottom	or Ce	ment
ging approve	ed by:				2				
	·	State Eng	ineer Represe	ntative	<u> 3</u>				
				DD 07	<u>'</u>				
e Received	.*	.,	FOR USE (OF STATE EN	GINEER ONL	<i>(</i>			
				Quad_		FWL :	2050	FSL 2	145
ila Na	0)-1	7354		T I	<u> </u>		ng pa a	200-	201
File No	*/			_ Use	· 7 · 50.5	ocation No.	C. DO. 20	تكك	5/

	Section 6. LOG OF HOLE				
Dept. From	h in Feet To	Thickness in Feet	Color and Type of Material Encountered		
0	1	1	Soil		
1	36	35	Caliche		
36	43	7	Sand		
43	52	9	Sand rock		
52	70	18	Sand		
70	75	5	Red Clay		
			L S Elev <u>3577</u> Depth to K Trc <u>70</u> Elev of K Trc <u>3507</u>		
			CISV OI N		
			Loc. No. <u>20.35.2.322331</u>		
	·		Hydro. Survey Field Check		
			SOURCE OF ALCITUDE COVEN		
· .			SOURCE OF ALTITUDE GIVEN Interpolated from Topo. SheetX		
			Determined by Inst. Leveling		
			Other		
	,				
			\$		

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell abbott
Driller H.B.

INSTRUCTIONS: This fo of the State Engineer. Al.

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appropriate district office , possible when any well is

STATE ENGINEER OFFICE

MELO EUGR. LOW

WELL RECORD

Section 1. GENERAL INFORMATION et i. . Reclamation (A) Owner of well <u>City of Hobbs</u> _____ Owner's Well No. _____3__ Street or Post Office Address P.O. Box 1117
City and State Hobbs, New Mexico 88240 Well was drilled under Permit No. 1-7559 and is located in the: a. _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ _____ $\frac{S\frac{1}{2}}{2}$ $\frac{1}{4}$ of Section ____ 2 ___ Township _____ 2OS ___ Range ____ 38E ____ N.M.P.M. ___ of Map No. __ ____ of the ____ of the Subdivision, recorded in Lea c. Lot No.__ feet, Y=_____feet, N.M. Coordinate System____ __ Grant. (B) Drilling Contractor Abbott Bros. License No. WD-46 Address P.O. Box 637, Hobbs, New Mexica 88240 Drilling Began 5/76 Completed 6/76 Type tools Cable Size of hole 8 in. at well is ft. Total depth of well 71 ft. Elevation of land surface or ____ Depth to water upon completion of well _____ft. Completed well is shallow artesian. Section 2. PRINCIPAL WATER-BEARING STRATA Depth in Feet Estimated Yield Description of Water-Bearing Formation in Feet (gallons per minute) From To 39 71 32 Sand 20 Section 3. RECORD OF CASING Depth in Feet Perforations Diameter Pounds Threads Length Type of Shoe (inches) per foot (feet) То Bottom From Top_ 15'stainless steel screen 65/815 Welded 0 71 71 71 56 Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Hole Sacks Cubic Feet Method of Placement Diameter of Mud of Cement From Section 5. PLUGGING RECORD Plugging Contractor _____ Address _ Depth in Feet Cubic Feet No. Plugging Method __ Bottom of Cement Тор Date Well Plugged_ 1 Plugging approved by: 2 State Engineer Representative

FOR USE OF STATE ENGINEER ONLY

Date Received			
		Quad FWL <u>2605</u> FSL <u>2110</u>	
File No	0. 0559	Use Location No. 20.38. 2.32244	

	Section 6. LOG OF HOLE				
Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered		
0	2	2	Surface soil		
2	31	29	Caliche		
31	39	8	Sand		
39	48	9	Sand rock		
48	67	19	Sand		
67	71	4	Red clay		
			L S Elev		
		<u> </u>	Elev of KTrc_3505		
			Loc. No. 20. 35. 2. 32244 Hydro. Survey Field Check		
			Hydro. Survey Field Check		
	1		SOURCE OF ALTITUDE GIVEN Interpolated from Topo. Sheet		
			Determined by Inst. Leveling		
			Other		
	` .				
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Section 7. REMARKS AND ADDITIONAL INFORMATION

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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell Abbott Driller H.B.

INSTRUCTIONS: This for

ould be executed in triplicate, preferably typewritten, and submitted t of the State Engineer. Al. ions, except Section 5, shall be answered as completely and accurate. drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed

appropriate district office possible when any well is

FIELD ENGR. LOS

116.11						RMATION			Monite	ring
A) Owner o	f well City	y of Hob	bs	 	·		Ow	ner's Well	No. C	
Street of	Post Office Ad State Ho	ldress <u>P.O</u> bbs, New	Mexico	88 117	240					
-										
	d under Permit									
a	¼ ¼	4 ¼	S호 ¼ of Se	ction	_27	Township	20S F	Range	38E	N.M.P.N
b. Tract	No	of Map No			of the					
c. Lot N	loivision, recorde	of Block No	Lea		of the Coun	tv.				1000
d. X= _		_ feet, Y=	,	fe	et, N.M. (Coordinate S	ystem			Zone i
										Grant
_	Contractor									
ldress	P.O. Box	637, Ho	bbs, Ne	w Mex	ico_	88240				
illing Began	5/76	6 Com	pleted	6/76	Ту	pe tools	Cable	Siz	e of hole_	6in
evation of la	nd surface or _				at well is_		_ ft. Total dep	th of well	70	ft
	llis ⊠ sl						upon completi			
inpleted we	11.12 21							on or wer	· · · · · · · · · · · · · · · · · · ·	<u> </u>
Denth	in Feet	Sec Thickness	tion 2. PRIN	CIPAL W	ATER-BE	EARING ST	RATA		Estimated	Yield
From	То	in Feet]	Description	on of Wate	er-Bearing F	ormation		allons per	
39	70	31								
					-					
				,					·	
										
	,		Sectio	n 3. REC	ORD OF	CASING				
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Botto		Length (feet)	Type of S	hoe	Perfo From	rations To
(2)	Plastic				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			15	Plasti	c scre
4	2	Glued	00	70		70			55	70
							·			
		Secti	on 4. RECO	RD OF M	UDDING	AND CEMI	ENTING			
Depth From	in Feet To	Hole Diameter	Sack of M		Cubic of Cer		Met	hod of P	lacement	
110111	10	Diameter	01 272		01 001					
				·						
 										
			L							
			Section	n 5. PLU	GGING R	ECORD				
	actor								····	
						No.	Depth i			ibic Feet Cement
dress	od					_ 1	Inn	ROTTO	m i ni	
dress igging Metho te Well Plug	od ged					- 1	Тор	Botto	m OI	Comone
dress gging Metho	od ged					1 2 3	Тор	Botto	m OI	Coment

FWL 2515 FSL 2150

Use ______Location No. 20.38.2.322.44/

Date Received

File No.

			Section 6. LOG OF HOLE
Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	2	2	Soil
2	30	28	Caliche
30	44	14	Sand
44	50	6	Sand rock
_50	66	16	Sand
66	70	4	Red clay

			L S Elev
			Depth to KIrc66 Flev of K Trc 3505
			Loc. No. <u>20. 38. 2. 322.441</u> Hydro, Survey Field Check
			Hydro, Survey Field Check
			SOURCE OF ALTITIDE GIVEN
			Interpolated from Tago. Sheet X
			Determined by Inst. Leveling
			Other
		-	:
			. REMARKS AND ADDITIONAL INFORMATION
			— — — — — — — — — — — — — — — — — — —

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INSTRUCTIONS: This for ould be executed in triplicate, preferably typewritten, and submitted t appropriate district office ions, except Section 5, shall be answered as completely and accurate. of the State Engineer. Al. possible when any well is drilled, repaired or deepened When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

FIELD EVER. LOW

, ,			Section	1. GENERAL	INFORMATIO	N	Reclam	atio	n	
(A) Owner of	wellCit	ty of Hob	bs			Own	er's Well No.	2		
Street or	Post Office A	ddress P.O	Mexico	<u> </u>						
-										
Vell was drilled	l under Permi	t No. L-7 55 S }	<u>9</u>		and is located	d in the:				
a	1/4	~		ection2	Township_	20S Ra	inge3	8E	_N.M.P.M	
b. Tract	No	of Map No.	· 	of th	e					
c. Lot N	o	of Block No.	.0.9	of th	e		,			
Subdr	vision, recorde	ed in		(County.					
d. X= the		feet, Y=		feet, N	I.M. Coordinate	System			Zone ir Grant	
3) Drilling (Contractor	Abbott B	ros.			License No	WD-46)		
ddressP	.0. Box	637, Hob	bs, Nev	v Mexico	88240					
rilling Began	5/76	Com	pleted	6/76	Type tools	Cable	Size of	hole	8_in	
levation of las	nd surface or .			at we	ell is	ft. Total depti	h of well	70	ft	
ompleted wel	I 1S LAS :	shallow 🗀 . a	irtesian.		Depth to water	r upon completio	n of well	4.7	II	
	1 . F			ICIPAL WATE	R-BEARING S'	TRATA	T ====			
Depth From	To	Thickness in Feet		Description of	Water-Bearing 1	Formation	L .	mated Y is per m		
43	70	27	Sand				17			
T/			- Danie	•						
			_							
						<u> </u>				
	<u> </u>			4 DECORD	OF GLODIC		<u> </u>	·		
Diameter	Pounds	Threads		in Feet	Length			Perfora	tions	
(inches)	per foot	per in.	Тор	Bottom	(feet)	Type of Sh		rom	То	
6 5/8	15	Welded	0	70	70	15' stai:		teel 5	scree 70	
										
		<u> </u>		<u> </u>						
		Secti	on 4. RECO	RD OF MUDD	OING AND CEM	IENTING				
Depth From	in Feet To	Hole Diameter	Sac of M		ubic Feet of Cement	Meth	od of Placer	nent	_	
110111	10	- Diameter			- Comont					
		<u> </u>	ļ							
l	<u> </u>	<u>.</u>	<u> </u>							
	·		Section	on 5. PLUGGI	NG RECORD					
										
					No.	Depth in Top	Feet Bottom		ic Feet Cement	
						1 OP	20110111			
					2	1		1		
	ved by:					† 		 		
Pate Well Plugg lugging approv	ved by:	State Eng	ineer Repres	entative	<u>3</u> 4					

Use <u>Expl</u> Location No. 20.38.2.32424

File No. 2-7559

			Section 6. LOG OF HOLE
Depth i	n Feet	Thickness	Color and Type of Material Encountered
From	То	in Feet	Color and Type of Material Encountered
0	33	33	Surface soil
3	38	35	Caliche
38	42	4	Sand
42	52	10	Sand rock
52	64	12	Sand
64	70	6	White and red clay
_			
			L S Elev
			L S Elev
			Loc. No. 20.38.2.32424
			Loc. No. 20. 38. 2. 32424 Hydro. Survey Field Check
			4 .
			SOURCE OF ALTHUDE GIVEN
			Interpolated from Topo. Sheet X
			Determined by Inst. Leveling
			Other
		<u>,</u>	

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell abbott

INSTRUCTIONS: This for of the State Engineer. Al.

ould be executed in triplicate, preferably typewritten, and submitted t ions, except Section 5, shall be answered as completely and accurate drilled, repaired or deepened When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

appropriate district office possible when any well is

	~				. INFORMATIC				toring	
(A) Owner of	f well Ult	y of Hob	Boy 1	777		Own	er's Wel	l No	В	
Street or City and	State	Hobbs, I	New Mex	ico 8	8240					
Well was drilled	d under Permit	NoL	7559		and is locate	ed in the:				
a	¼ ¼	4 ¼ <u>S</u>	<u>1</u> 2	ection 2	Township	20SRa	inge	38 E	N.M.P.M	
b. Tract	No	of Map No.		of t	he					
c. Lot N Subdi	o vision, recorde	of Block No d in	Lea	of t	he County.	·				
		·				e System			Zone in Grant.	
(B) Drilling (Contractor A	bbott Bro	os.			License No	WD-	-46		
Address	P.O. Bo	x 637, Ho	obbs, N	<u>ew Mexi</u>	co 8824	10				
Drilling Began	5/76	Comp	oleted <u>6</u>	/76	Type tools.	Cable	Si	ze of hole_	6_in.	
Elevation of la	nd surface or _			at v	vell is	ft. Total depti	h of wel	175_	ft.	
Completed wel	ll is 🕮 si	hallow 🗀 a				er upon completion	n of wel	ıı <u>39</u>	ft.	
		1	tion 2. PRIN	CIPAL WAT	ER-BEARING	STRATA				
From	in Feet To	Thickness in Feet]	Description o	of Water-Bearing	Formation	(g	Estimated allons per r		
39	75	36	San	ā						
										
		-					-			
							<u> </u>			
		· · · · · · · · · · · · · · · · · · ·	Sectio	n 3. RECOR	D OF CASING					
Diameter	Pounds	Threads		in Feet	Length (feet)	Type of Sh	oe ·		ations	
(inches)	per foot Plastic	per in.	Top	Bottom	(leet)		P7 a	From stic s	reen	
4	2	Glued	00	75	75			60	75	
	<u> </u>		4 5 5 6 6							
Denth	in Feet	Hole	Sacl		DING AND CE Cubic Feet	MENTING				
From	То	Diameter	of M		of Cement	Meth	od of P	lacement		
							····			
						· · · · · · · · · · · · · · · · · · ·	 -			
			Gartia	5 PLUGG	NIC PECOND					
Plugging Contr	actor				ING RECORD					
					No.	Depth in			bic Feet	
						Top	Botto	om of	Cement	
Plugging appro	•				2					
		State Engi	ineer Repres	entative	3					
			FOR USE	OF STATE	ENGINEER ON	LY				
Date Received				Ou	he	EWI	258	O ESI	1780	

Use _____Location No. 20.38.2.324242

File No.

			Section 6. LOG OF HOLE
Depth	in Feet	Thickness	Color and Type of Material Encountered
From	То	in Feet	Color and Type of Material Encountered
0	2	2	Soil
2	1.6	14	Caliche
16	23	7	Sand rock
23	28	5	Sand
28	34	6	Sand rock
34	42	8	Sand
42	52	10	Sand rock
52	70	18	Sand
70	75	5	Red Clay
			L S Elev
			Elev of KTrc_3536
	.,		
			Loc. No
			Hydro, Survey Field Check
			SOURCE OF ALTITUDE GIVEN Interpolated from Topo. Sheet
			Determined by Inst. Leveling
			Other
		۲	.

Section 7. REMARKS AND ADDITIONAL INFORMATION

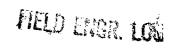
STATE FRANCES OFFICE

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell abboot Driller N.B

INSTRUCTIONS: This for ould be executed in triplicate, preferably typewritten, and submitted t appropriate district office of the State Engineer. All ions, except Section 5, shall be answered as completely and accurate possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

May also made to the state of t



	α 2.	+w of H-1			L INFORMATION			nation		
Ctreat or	Doot Office A	ty of Hob	• ROX .	1117		Owne		<u> </u>		
City and	State Ho	bbs, New	Mexico	8824	0					
					and is located					
a	_ ¼	1/4 1/4	¼ of S	ection2	Township _	20S Ran	ge <u>38E</u>	N.M.P.M.		
b. Tract	No	of Map No.		of	the		····			
c. Lot No	0	_ of Block No		of	the					
Subdiv	vision, record	led in <u>ne</u>	<u>a</u>		_ County.					
						System				
the				, , , , , , , , , , , , , , , , , , , 				Grant.		
Drilling C	Contractor	Abbott Br	os.			License No	WD-46	···		
tean P	O: Box	637. Hob	hs. Ne	w Mexic	n 88240					
				_						
lling Began .	5/76	Comp	leted	6/76	Type tools	Cable	Size of hole	<u>8</u> in.		
vation of lan	nd surface or			at	well is	ft. Total depth	of well 80	ft.		
npieted well	I 1S 🔼	shallow a	rtesian.		Depth to water	r upon completion	of well	ft.		
		Sect	ion 2. PRIN	NCIPAL WAT	TER-BEARING ST	TRATA				
Depth i		Thickness in Feet		Description	of Water-Bearing I	Formation	Estimated (gallons per	7		
From	То			·						
39	80	41	Saı	nd		·	16			
		1	ł					!		
			Section	on 3. RECOI	RD OF CASING					
	Pounds	Threads	Depth	in Feet	Length	Type of Sho	e -	orations		
Diameter (inches)	Pounds per foot	Threads per in.			Length	Type of Sho	From	To		
	per foot		Depth	in Feet	Length (feet)	<u> </u>	e -	То		
(inches)	per foot	per in.	Depth Top	in Feet Bottom	Length (feet)	<u> </u>	From tainless	To Steel s		
(inches)	per foot	per in.	Depth Top	in Feet Bottom	Length (feet)	<u> </u>	From tainless	To Steel s		
(inches)	per foot	per in.	Depth Top	in Feet Bottom	Length (feet)	<u> </u>	From tainless	To Steel s		
(inches) 6 5/8	per foot	per in. Welded	Depth Top O O A. RECO	Bottom 80 PRD OF MUI	Length (feet) 80 DDING AND CEM	15'S	From tainless	To Steel s		
(inches)	per foot	per in. Welded	Depth Top	Bottom 80 PRD OF MUI	Length (feet)	15'S	From tainless	To Steel s		
(inches) 6 5/8 Depth i	per foot 15 in Feet	per in. Welded Section	Depth Top O O A. RECO	Bottom 80 PRD OF MUI	Length (feet) 80 DDING AND CEM Cubic Feet	15'S	From tainless 65	To Steel s		
(inches) 6 5/8 Depth i	per foot 15 in Feet	per in. Welded Section	Depth Top O O A. RECO	Bottom 80 PRD OF MUI	Length (feet) 80 DDING AND CEM Cubic Feet	15'S	From tainless 65	To Steel s		
6 5/8 Depth i	per foot 15 in Feet	per in. Welded Section	Depth Top O O A. RECO	Bottom 80 PRD OF MUI	Length (feet) 80 DDING AND CEM Cubic Feet	15'S	From tainless 65	To Steel s		
(inches) 6 5/8 Depth i	per foot 15 in Feet	per in. Welded Section	Depth Top O O A. RECO	Bottom 80 PRD OF MUI	Length (feet) 80 DDING AND CEM Cubic Feet	15'S	From tainless 65	To Steel s		
Depth i	per foot 15 in Feet	per in. Welded Section	Depth Top O O A. RECO	Bottom 80 PRD OF MUI	Length (feet) 80 DDING AND CEM Cubic Feet	15'S	From tainless 65	To Steel s		
Depth i	per foot 15 in Feet	per in. Welded Section	Depth Top O O O O O O O O O O O O O O O O O O O	Bottom 80 RD OF MUI	Length (feet) 80 DDING AND CEM Cubic Feet	15'S	From tainless 65	To Steel s		
Depth i	per foot 15 in Feet To	Section Hole Diameter	Depth Top O On 4. RECO Sac of M	Bottom 80 PRD OF MUI	Length (feet) 80 DDING AND CEM Cubic Feet of Cement	15 'S ENTING Metho	tainless 65	To Steel s		
Depth i From	per foot 15 in Feet To	Section Hole Diameter	Depth Top O On 4. RECO Sac of M	Bottom 80 RD OF MUI ks fud on 5. PLUGO	Length (feet) 80 DDING AND CEM Cubic Feet of Cement	15 'S ENTING Metho Depth in I	tainless 65 d of Placement	Steel s 80		
Depth i From gging Contra dress gging Methode e Well Plugg	per foot 15 in Feet To actor ded	Section Hole Diameter	Depth Top O On 4. RECO Sac of M	Bottom 80 RD OF MUI ks fud on 5. PLUGO	Length (feet) 80 DDING AND CEM Cubic Feet of Cement GING RECORD No.	15 'S ENTING Metho	tainless 65 d of Placement	Steel s 80		
Depth i From gging Contra dress gging Metho	per foot 15 in Feet To actor ded	Section Hole Diameter	Depth Top O On 4. RECO Sac of M	Bottom 80 RD OF MUI ks fud on 5. PLUGO	Length (feet) 80 DDING AND CEM Cubic Feet of Cement GING RECORD No. 1 2	15 'S ENTING Metho Depth in I	tainless 65 d of Placement	Steel s 80		
Depth i From gging Contra dress gging Methode e Well Plugg	per foot 15 in Feet To actor ded	Section Hole Diameter	Depth Top O On 4. RECO Sac of M	in Feet Bottom 80 RD OF MUI ks fud on 5. PLUGO	Length (feet) 80 DDING AND CEM Cubic Feet of Cement GING RECORD No.	15 'S ENTING Metho Depth in I	tainless 65 d of Placement	Steel s 80		

File No. ________ Use ________ Location No. 20.38.2.32431

			Section 6. LOG OF HOLE
Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	3	3	Soil
3	21	18	Caliche
21	45	24	Sand
45	54	9	Sand Rock
54	73	19	Sand
73	76	3	Sandy Clay
76	80	4 .	Red Clay
			L S Elev
	<u> </u>		L S Elev
	-		Loc. No. 20. 38. 2. 32431 Hydro. Survey Field Check '
			Hydro. SurveyField Check
			SOURCE OF ALTITUDE GIVEN
			Interpolated from Topo. Sheet X
			Determined by Inst. Leveling
			Other
·			
		· ·	5
		Section 7.	REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: This fo of the State Engineer. Al.

ould be executed in triplicate, preferably typewritten, and submitted t ions, except Section 5, shall be answered as completely and accurate. drilled, repaired or deepened When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed

appropriate district office , possible when any well is

ي ا^{ور} رهاد ده معامرانيو

FIELD	ENER.	LOG
) WII N	Monit A	orin

4			Section	1. GENER	AL INF	ORMATION			Moni	toring
(Å) Owner o	of wellCit	y of Hol	obs		·		Owr	ner's We	il NoA	
Street o	or Post Office Ac	Hobbs,	New Me	xico	8824	10				
Well was drille	ed under Permit	No. L-	-7 559		aı	nd is located	in the:			
a	¼ ¼	4 ¼ _S	5 <u>1</u> ¼ of S	ection	2	Township	20S R	ange	38E	N.M.P.M.
b. Trac	t No	of Map No			of the					
	No livision, recorde									
	Contractor						-			
Address P	.0. Box 6	37, Hobb	os, New	Mexic	o 8	88240				
Drilling Began	5/76	Com	pleted	6/76	Т	ype tools	Cable	S	ize of hole_	6 in.
Elevation of la	and surface or _			a	it well is		_ ft. Total dept	h of we	n <u>75</u>	ft.
Completed we	ellis 🔼 sl	hallow 🗀 a	artesian.		Dej	oth to water	upon completic	n of we	ell	ft.
		Sec	tion 2. PRIN	ICIPAL W	ATER-B	EARING ST	RATA			
Depth From	in Feet To	Thickness in Feet		Descriptio	n of Wat	er-Bearing F	ormation	(1	Estimated Y gallons per m	
40 <u>분</u>	75	34 <u>분</u>								
								-		
				· · · · · · · · · · · · · · · · · · ·				-		
		· · · · · · · · · · · · · · · · · · ·		on 3. RECO	ORD OF	CASING				
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Botto	m	Length (feet)	Type of Sh	oe	Perfora From	To
Δ	Plastic	Glued	0	75		75		15'	Plastic	
. 4		Grueu		12						
		Secti	on 4. RECO	RD OF M	JDDING	AND CEMI	ENTING			
Dep th From	in Feet To	Hole Diameter	Sac of M	-	Cubic of Ce		Meth	od of l	Placement	
										
			-					- 11.bt-		
	<u> </u>								<u></u>	
				on 5. PLUC	GGING I	RECORD				
Address	ractor					- - No.	Depth ir			oic Feet
'lugging Meth Date Well Pluc	od gged					- -	Тор	Botto	om of o	Cement
Plugging appro						$-\frac{1}{2}$				
		State Eng	ineer Repres	entative		- <u>3</u>				
	— · · · · · · · · · · · · · · · · · · ·		FOR USE	OF STAT	E ENGI	NEER ONLY	 {			
ate Received			•				FWL	2141) Eci	1590
				,	·		1 W L		I DL_	

File No. Use _______ Location No. 20.38.2.324312

Denth	in Feet	Thickness	Section 6. LOG OF HOLE			
From	То	in Feet	Color and Type of Material Encountered			
0	3	3	Soil			
3	21	18	Caliche			
21	45	24	Sand			
45	53	8	Sand rock			
53	71	18	Sand			
71	75	4	Red Clay			
			L S Elev			
			Elev of KTrc_3510_			
			Loc. No. 20.38. 2. 324312			
	·		Hydro, Survey Field Check			
			SOURCE OF ALTHUDE GIVEN			
			Interpolated from Topo. Sheet <u>X</u>			
			Determined by Inst. Leveling			
			Other			
	<u> </u>		<u>:</u>			

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: This for of the State Engineer. Al.

ould be executed in triplicate, preferably typewritten, and submitted t ions, except Section 5, shall be answered as completely and accurate drilled, repaired or deepened When this form is used as a plugging record, only Section 1(a) and Section 6 need be completed

appropriate district office possible when any well is Form WR-23

STATE ENGINEER OFFICE

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

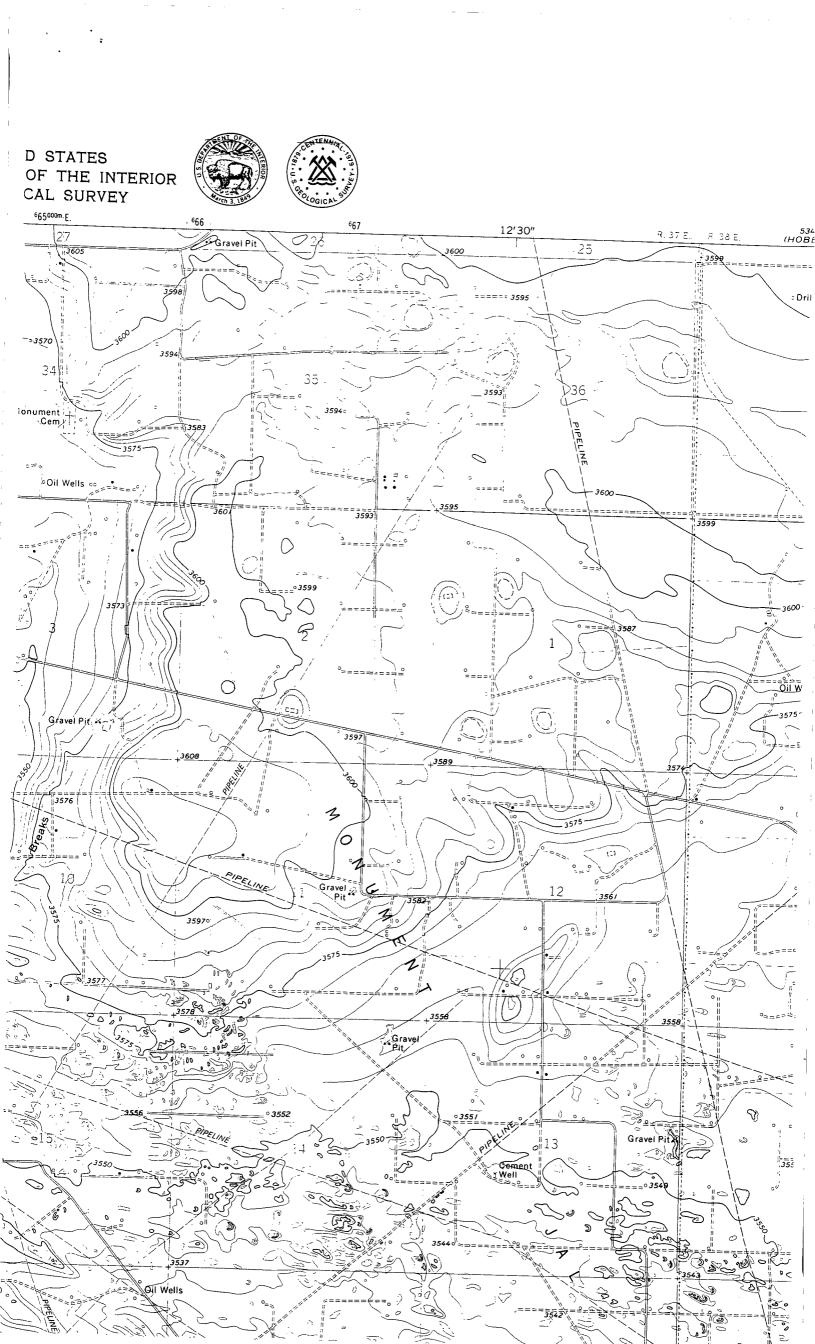
Section	1		(A) Own	of wall	י דכר אים	אַד,ד,דד:מרד זאגייי	VG CO.			
			1 ' '				Y U U U U U U U U U U			
			City ODESSA, State TEXAS							
			Well was	drilled w	nder Peri	nit No. $2-6$	462(E) an	d is located in the		
			NE_4	NE ½	4 SE 1	4 of Section 2	2 Twp. 20	S Rge. 38E		
	1 1	•	(B) Drilli	ing Contr	actor	ABBOTT BROS	Lice	nse No. WD-46		
	- 		City HOJ	BBS			State _	N.M. 88240		
			Drilling w	vas comm	ienced	I	AN. 24	19 69		
L			\perp Drilling w	as comple	eted	FF	EB. 1	19 69		
· · · · · · (1	Plat of 640 ac	res)		14 J.		or production of the second	pth of well	the state of the s		
State w	hether well	. is shallow	or artesian_	_shall(<u></u>	Depth to wa	iter upon comple	etion 45!		
Section :	2	!	PRIN	CIPAL W	ATER-BEAF	RING STRATA				
No.	Depth in	Feet 1	Thickness in		De	escription of Wate	er-Bearing Formation	on		
110.	From	То	Feet		·			·		
1	42	86	44'	wa-	ter sar	 1d				
2	-7		- 1 7		1	14				
3					· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·			
4	· · · · · · · · · · · · · · · · · · ·						· · · · · · · · · · · · · · · · · · ·	<u> </u>		
	· -									
5										
Section 3	3			RECOF	RD OF CA	SING				
Dia	Pounds	Threads	Dep		Feet	Type Shoe	Perfo	orations		
in.	ft.	in	Top	Bottom	. Feet	Type Snoe	From	То		
7	20	1.0	1	861	86'	none	50	86		
				. 1						
Section 4	1		RECORI	D OF MUI	1A DUIDO	ND CEMENTING				
		1: 5:			1 7	1D CEMENTING		<u> </u>		
From	h in Feet	Diameter Hole in in	1;	1	acks of nent	٠	Methods Used			
				-						
· · · · · · · · · · · · · · · · · · ·				-						
				+	-		**************************************			
		 		-						
	<u> </u>	<u> </u>	1					···		
Section 5	5 ;			PLUGE	SING REC	ORD	•			
Name of	Plugging	Contractor.					License No)		
							State			
		•								
								19		
	•		1	~***	;					
unggung	g approved l	=	in tal tiggan og	5- 1-1	:		gs were placed as	3 10µ0ws:		
			Basin Supe		No	Depth of Pl	lug Fo No. of	f Sacks Used		
•			11. 12. 13. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14		-	FIUII	10			
\$ 150.00	FOR USE		ENGINEER OR			_				
		71:81	EEB - 2 11	6961						
Date 1	Received				-					
			١							
BT_	L-6	4671	-	_Use	Marion	Tanatia	**- 71 20	.2.422		
кле ио	<u>, ~ 0</u>	1000	<u> </u>	use'	vwv	Locatio	n No. Luis	and the second		

LOG OF WELL

Depth in Feet		Thickness					
From	То	in Feet	Color	Type of Material Encountered			
O	2	2	gr y	xxxx soil			
2	22	20	gray	caliche			
. 22	30	8	brown	sand rock			
30	42	8	brown	sand			
42	86	44	brown	water send			
	<u> </u>						
				·			
				2 Elevation From Topo 3576			
				86 TD			
				3490 Aro Rodbyl			
		· · · · · ·					
1							
		· · · · · · · · · · · · · · · · · · ·	,				
			· · · · · · · · · · · · · · · · · · ·				
				·			
			•				
				·			

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Murrell addated Well Driller



- 00 10 17714

STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

	il Plugg approv	eded by:		ineer Represe			1 2 3 4					
ddress lugging	Metho	actor					ORD No.	Depth in	n Feet Botto		ubic Feet f Cement	
Fro	Dep th om	n Feet To	Hole Diameter	Sack of M	cs	Cubic Fee	et		od of P	Placement		
			Secti	on 4. RECO	RD OF MU	DDING AN	ND CEM	ENTING		<u> </u>	<u> </u>	
		. 40										
		sh joint	p v all.	Тор	Bottom		00			From 50	200	
Diam (incl		Pounds per foot	Threads per in.	Depth	n 3. RECOF	Lei	SING ngth eet)	Type of Sh	10e		orations	
,					0.000	N 07 5	on:6					
Fro	om	То	in Feet		Description (or water-p		OIMATION	(8	(gallons per minute)		
	Depth	in Feet	Thickness	tion 2. PRIN				RATA		a enc	Yield	
	ted well		allow 🔲 a					upon completio	n of we	no wa	ter	
								Rotary _ ft. Total dept			· /-	
ddress		·						· · · · · · · · · · · · · · · · · · ·				
3) Dı								License No 88240				
d.	X=		. feet, Y=		feet,	N.M. Coo	ordinate S	System				
c.		o (o)							 -			
							_	•	-			
		under Permit 1						in the: 20S R	38	F	NM	

	Section 6. LUG OF HULE							
Depth	in Feet	Thickness	Color and Type of Material Engagement					
From	То	in Feet	Color and Type of Waterial Euconforete 48q 14.12214					
0	28	28	Caliche					
28	32	4	Sandy Clay and Rock					
32	34	2	Bluish Clay					
34	38	44	Sandy Clay					
38	45	7	Dry Sand					
45	55	11	Sandy Red Clay					
55	62	7	Yellow-Gold Sandy Clay					
62	68	6	Rock					
68	80	12	Red Bed					
80	100	20	Red and Blue Clay with Rock Stringers					
100	120	20	Red Bed					
120	200	80	Red Bed					
			Red Bed \$\times \text{Elevation Topo} \text{3590}' \text{(e8 ' ? Ad bed} \text{3522}					
			Co 8 ' Red bed					
			3522					
	·							
	i							

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

of the State Engineer. All drilled, repaired or deepen

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office ons, except Section 5, shall be answered as completely and accurate' en this form is used as a plugging record, only Section 1(a) and Section

possible when any well is d be completed.

STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

	State						in the:		-	
	_ ¼ <u>NE</u> ¼							3	8E	N1 1#
	_ % % No					-		•		
	lo									
	vision, recorded									
	Contractor									
rilling Began	1-29-91	Comp	pleted 1-	29-91	Тур	e tools <u>R</u>	otary	S	ize of hole	6½
levation of la	nd surface or				at well is		_ ft. Total der	th of we	<u>11 10(</u>	<u> </u>
ompleted wel	-	allow 🔲 a					upon complet		no wa	ater
		Sec	tion 2. PRIN	CIPAL W	ATER-BEA	ARING ST	RATA		eres!	täter e
Depth From	in Feet To	Thickness in Feet	I	Description	on of Water	-Bearing F	ormation	ú	Estimate gallons pe	d Yield r minute)
							, , , , , , , , , , , , , , , , , , , 			
	<u> </u>		Section	n 3. REC	ORD OF C	ASING				
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Botto		ength (feet)	Type of S	Shoe	Per From	forations To
4" fl	ush joint					00			50	100
	sch. 40									
			· · · · · · · · · · · · · · · · · · ·							
		Secti	on 4. RECOI	RD OF M	UDDING A	ND CEM	ENTING			
Depth From	in Feet To	Hole Diameter	Sack of Mu	_	Cubic F of Cem		Me	thod of I	Placement	,
				,						
			Sectio	n 5. PLU	GGING RE	CORD				
	actor					[Th = 49	i 17:		
ugging Metho	od					No.	Top	in Feet Botto		Cubic Fee of Cemen
ugging appro						2				
		State Eng	ineer Represe	ntative		4				
ate Pecsived	June 20,	1001	FOR USE	OF STAT	re Engini	EER ONL	Y			
TO VECEIVER	JUHE 20,	, エフプル								SL

	Section 6, LOG OF HOLE							
·. —	in Feet	Thickness in Feet	Color and Type of Material Encountered					
From 0	То 2	2	Top Soil					
2	18	16	Caliche					
18	30	22	Sandy Clay and Rock Strata					
30	36	6	Red Clay					
36	40	4	Gold Sand and Clay with brown stringers					
40	44	4	Gold Sandy Clay					
44	55	11	Red Sandy Clay					
55	58	3	Coarse Sand					
58	59	1	Rock Stringers					
59	63	. 4	Sand					
63	68	5	Sandy Clay					
68	72	4	Greenish Grey Clay					
72	80	8	Red Bed					
80	95	15	Red Bed					
95	100	5	Rock Stringers					
			2 Elevation From Popo 3590					
			- 72 3518 topof Red by					
,								
	[

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate enstrict office ossible when any well is

d be completed.

of the State Engineer. All drilled, repaired or deepen

ons, except Section 5, shall be answered as completely and accurate' en this form is used as a plugging record, only Section 1(a) and Section

STATE ENGINEER OFFICE WELL RECORD

EIELD ENGR. LOG

Kerry Esection 1. GENERAL INFORMATION

en was orme	d under Permit	No. L-85	14		and is locate	ed in the:		
a	_ ¼ _SW ;	4 <u>NE</u> ¼	NW ¼ of Sec	tion 14	Township	20~S Ra	nge <u>38-</u> F	N.M.P.
b. Tract	No	of Map No.		of t	he			
c. Lot N Subd	o vision, recorde	of Block No d in Lea		of t	he County.			
				feet,	N.M. Coordinat	e System		
			Larry's	Drillin			WD882	Gran
	Contractor		2601 W.E	Bender H		License No		
		Comp		7 01	Type tools	_tricone	Size of	hole 11. i
						ft. Total deptl		
mpleted we		hallow 🗀 a				er upon completion		None
inpleted we	1112 A 2				ER-BEARING S		If Of Well	
Depth	in Feet	Thickness			of Water-Bearing			nated Yield
From	То	in Feet				·	(gallons	s per minute)
						· · · · · · · · · · · · · · · · · · ·		
	<u> </u>	<u> </u>	Section	3. RECOR	D OF CASING			
Diameter	Pounds	Threads	Depth in		Length	Type of Sh	oe	Perforations
(inches)	per foot	per in.	Тор	Bottom	(feet)		Fre	om To
	`		· .					
Depth	in Feet	Section Hole	on 4. RECOR		Cubic Feet		- 1 . C D1	- 4
From	То	Diameter	of Muc	d .	of Cement		od of Placem	
		1						
			Section	5. PLUGG	ING RECORD		•	
						D. At in		
gging Metho	od				I No	Depth in Top	Bottom	Cubic Feet of Cement
te Well Plug gging appro					$\frac{1}{2}$			
		State Engi	neer Represer	ntative	$\frac{3}{4}$			
A.								

			Section 6. LOG OF HOLE
Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	4	4	topsoil
4	28	24	blow sand
28	. 50	22	caliche
50	55	5	sand and sandstone
55	60	5	KNNUXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
		·	
			, see Abou Red bed
		·	
			L S Elev
			Loc. No. 2258. 114 15 Hydro. Survey Field Check 354
			Hydro. SurveyFleld_CheckFleld_Check
			SOURCE OF ALTITUDE GIVEN
			Interpolated from Topo. Sheet X
			Determined by Inst. Leveling
·			Other
		Coation 7	DEMARKS AND ADDITIONAL INCODMATION

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office ons, except Section 5, shall be answered as completely and accuratel of the State Engineer. All drilled, repaired or deepened then this form is used as a plugging record, only Section 1(a) and Section 5 the deepened the completed.

ossible when any well is

WELL RECORD

Date of Receipt	******************************			Permit	No.L-2239	
Name of permittee,	J O Cours	BOY		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	**	1 .
Street or P. O. Sta						
1. Well location and d	escription: TheS	shallow well	is located in	W	4, <u>NE</u>	14
	Section 14	, Township	20S , Ran	_{se} 38E	; Elevation o	f top of
casing above sea l		•				
depth to water upon	completion,38	feet; dri	lling was comme	nced 1-15		, 19.54
and completed	1-16	, 1954; nar	ne of drilling con	ntractor J.	E. Barto	n
***************************************	; Address,	Box 42 H	obbs, New	MBriller's Licens	se No. WD-1	<u>+</u>
2. Principal Water-bea	ring Strata:					
Depth :	in Feet	Thickness	Descrip	tion of Water-bearin	g Formation	
No. 1	40	0 A	seep of w	ater in sa	and	
No. 2			e about 10			
No. 3	,					
No. 4						
No. 5			T.1.'			
Diameter Pounds in inches per ft.	Threads Depth of per inch Top	of Casing or Liner Bottom	Feet of Casing T	type of Shoe	Perforation From	To
			\ \			D-10 -00 -00 000 0 0 1 0 0 0 0 0
		********			······································	************
		······································		······:		····
			•			
4. If above construction	n replaces old well	to be abandone	i, give location:		4,	
of Section	, Township	, Range	; nai	ne and address	of plugging con	tractor,
	······································	<u></u>		**************************************		
date of plugging		, 19	.; describe how w	rell was plugged:		•••••••••
	********************************		***************************************			***************************************
			***************************************			******
i sababan 1988 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 19	***************************************		· · · · · · · · · · · · · · · · · · ·		2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
					LED	}

1-2239 Ol - Bear

1) Secure 10 55 1

20.38.14.210

MAR 11 1954

5. Log of Well:

Depth From	in Feet To	Thickness in feet	Description of Formation
0	2	2	Sandy Soil
2	25	23	Caliche
25	40	15	Sand
40	42	2	Hard Sandstone
42	50	8	Sand and to red bed.
			L S Elev
			Ecc. No. 20,38, 14, 24311 ? Hydro. Survey Field Check
			i
			SOURCE OF ALTITUDE GIVEN
			Interpolated from Topo. Sheet A
		·	Other Other
		, and a second	
 			
· · · · · · · · · · · · · · · · · · ·	;		

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Licensed Well Drill

Instructions

This form shall be executed, preferably typewritten, in triplicate and filed with the State Engineer's Office at Roswell, New Mexico, within 10 days after drilling has been completed. Data on water-bearing strata and on all formations encountered should be as complete and accurate as possible.

February 6, 1998

Mr. Adrian Zamora 8000 S. Eunice Highway Hobbs, NM 88240

Re: Commercial Landfarm Permit Application

Rhino Environmental Services, Inc.

SE/8 of SE/4 & SW/4 of SE/4 of Section 11, Township 20 South, Range 38 East,

NMPM, Lea County, New Mexico

Dear Mr. Zamora:

The Oil Conservation Division (OCD) has received your protest to the above referenced landfarm application received by the OCD on November 18, 1997. The OCD has included your name on the list of intervenors in this case and as such you will receive copies of all correspondence concerning the application. The OCD will continue to process the application until it is determined to be administratively approvable or denied. If the permit is administratively denied, the applicant will be notified and it will be its responsibility to request a hearing appealing the denial if it so desires. If the application is determined to be administratively approvable, the OCD will notify the applicant and all intervenors of the conditions under which the permit could be issued. All intervenors will be allowed fifteen (15) days from receipt of the determination to submit final comments on the conditions or request a public hearing in lieu of administrative approval. A request for a public hearing must be in writing and must include the reasons why a hearing should be held.

The OCD would appreciate your input on all environmental and public health issues relating to the application. Please be advised that land use concerns are not within the jurisdiction of the OCD and cannot be considered. Land use issues are the sole jurisdiction of local or county governments. In addition, the movement of goods and materials across state lines is protected by the commerce clause of the U.S. Constitution and may not be subject to OCD regulation.

If you have any questions or comments, please do not hesitate to contact me at (505) 827-7152.

Sincerely:

Roger C. Anderson, Chief

Environmental Bureau

xc: OCD Hobbs

January 30, 1998

Mr. Antonio Cervantes 405 E. Loa Hobbs, NM 88240

Re: Commercial Landfarm Permit Application

Rhino Environmental Services, Inc.

SE/8 of SE/4 & SW/4 of SE/4 of Section 11, Township 20 South, Range 38 East,

NMPM, Lea County, New Mexico

Dear Mr. Cervantes:

The Oil Conservation Division (OCD) has received your protest to the above referenced landfarm application received by the OCD on November 18, 1997. The OCD has included your name on the list of intervenors in this case and as such you will receive copies of all correspondence concerning the application. The OCD will continue to process the application until it is determined to be administratively approvable or denied. If the permit is administratively denied, the applicant will be notified and it will be its responsibility to request a hearing appealing the denial if it so desires. If the application is determined to be administratively approvable, the OCD will notify the applicant and all intervenors of the conditions under which the permit could be issued. All intervenors will be allowed fifteen (15) days from receipt of the determination to submit final comments on the conditions or request a public hearing in lieu of administrative approval. A request for a public hearing must be in writing and must include the reasons why a hearing should be held.

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If you have any questions or comments, please do not hesitate to contact me at (505) 827-7152.

Sincerely:

Roger C. Anderson, Chief Environmental Bureau

xc: OCD Hobbs

January 15, 1998

Mr. Juan Huerta 300 East Lea Street Hobbs, NM 88240

Re: Commercial Landfarm Permit Application

Rhino Environmental Services, Inc.

SE/8 of SE/4 & SW/4 of SE/4 of Section 11, Township 20 South, Range 38 East,

NMPM, Lea County, New Mexico

Dear Mr. Hazelwood:

The Oil Conservation Division (OCD) has received your protest to the above referenced landfarm application received by the OCD on November 18, 1997. The OCD has included your name on the list of intervenors in this case and as such you will receive copies of all correspondence concerning the application. The OCD will continue to process the application until it is determined to be administratively approvable or denied. If the permit is administratively denied, the applicant will be notified and it will be its responsibility to request a hearing appealing the denial if it so desires. If the application is determined to be administratively approvable, the OCD will notify the applicant and all intervenors of the conditions under which the permit could be issued. All intervenors will be allowed fifteen (15) days from receipt of the determination to submit final comments on the conditions or request a public hearing in lieu of administrative approval. A request for a public hearing must be in writing and must include the reasons why a hearing should be held.

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If you have any questions or comments, please do not hesitate to contact me at (505) 827-7152.

Sincerely:

Roger C. Anderson, Chief

Environmental Bureau

xc: OCD Hobbs

January 15, 1998

Mr. Kevin and Ms. Phyllis Mattingly 221 Victoria Lane Hobbs, NM 88240

Re: Commercial Landfarm Permit Application

Rhino Environmental Services, Inc.

SE/8 of SE/4 & SW/4 of SE/4 of Section 11, Township 20 South, Range 38 East,

NMPM, Lea County, New Mexico

Dear Mr. and Ms. Mattingly

The Oil Conservation Division (OCD) has received your protest to the above referenced landfarm application received by the OCD on November 18, 1997. The OCD has included your name on the list of intervenors in this case and as such you will receive copies of all correspondence concerning the application. The OCD will continue to process the application until it is determined to be administratively approvable or denied. If the permit is administratively denied, the applicant will be notified and it will be its responsibility to request a hearing appealing the denial if it so desires. If the application is determined to be administratively approvable, the OCD will notify the applicant and all intervenors of the conditions under which the permit could be issued. All intervenors will be allowed fifteen (15) days from receipt of the determination to submit final comments on the conditions or request a public hearing in lieu of administrative approval. A request for a public hearing must be in writing and must include the reasons why a hearing should be held.

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If you have any questions or comments, please do not hesitate to contact me at (505) 827-7152.

Sincerely:

Roger C. Anderson, Chief

Environmental Bureau

xc: OCD Hobbs

January 15, 1998

Ms. Wilma Hardin P.O. Box 5458 Hobbs, NM 88240

Re: Commercial Landfarm Permit Application
Rhino Environmental Services, Inc.
SE/8 of SE/4 & SW/4 of SE/4 of Section 11, Township 20 South, Range 38 East,
NMPM, Lea County, New Mexico

Dear Ms. Hardin:

The Oil Conservation Division (OCD) has received your protest to the above referenced landfarm application received by the OCD on November 18, 1997. The OCD has included your name on the list of intervenors in this case and as such you will receive copies of all correspondence concerning the application. The OCD will continue to process the application until it is determined to be administratively approvable or denied. If the permit is administratively denied, the applicant will be notified and it will be its responsibility to request a hearing appealing the denial if it so desires. If the application is determined to be administratively approvable, the OCD will notify the applicant and all intervenors of the conditions under which the permit could be issued. All intervenors will be allowed fifteen (15) days from receipt of the determination to submit final comments on the conditions or request a public hearing in lieu of administrative approval. A request for a public hearing must be in writing and must include the reasons why a hearing should be held.

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If you have any questions or comments, please do not hesitate to contact me at (505) 827-7152.

Sincerely:

Roger C. Anderson, Chief Environmental Bureau

xc: OCD Hobbs

Rhino Environmental Services, Inc.

Under

January 15, 1998

Mr. Bill Hazelwood RR69, 42380 State Hwy 18 Hobbs, NM 88240

Re: Commercial Landfarm Permit Application

Rhino Environmental Services, Inc.

SE/8 of SE/4 & SW/4 of SE/4 of Section 11, Township 20 South, Range 38 East,

NMPM, Lea County, New Mexico

Dear Mr. Hazelwood:

The Oil Conservation Division (OCD) has received your protest to the above referenced landfarm application received by the OCD on November 18, 1997. The OCD has included your name on the list of intervenors in this case and as such you will receive copies of all correspondence concerning the application. The OCD will continue to process the application until it is determined to be administratively approvable or denied. If the permit is administratively denied, the applicant will be notified and it will be its responsibility to request a hearing appealing the denial if it so desires. If the application is determined to be administratively approvable, the OCD will notify the applicant and all intervenors of the conditions under which the permit could be issued. All intervenors will be allowed fifteen (15) days from receipt of the determination to submit final comments on the conditions or request a public hearing in lieu of administrative approval. A request for a public hearing must be in writing and must include the reasons why a hearing should be held.

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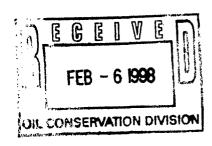
If you have any questions or comments, please do not hesitate to contact me at (505) 827-7152.

Sincerely:

Roger C. Anderson, Chief Environmental Bureau

xc: OCD Hobbs





January 20, 1998

Director Oil Conservation Division NM Energy, Minerals & Natural Resources 2040 South Pacheco Street Santa Fe, NM 87505

RE: COMMERCIAL LANDFARM

Dear Director:

I would like to request a public hearing in regards to the proposed Commercial Landfarm site that will be located in the SE/8 of SE/4 & SW/4 of SE/4 of Section 11, T20S, R38E, Lea County, New Mexico.

I am opposed to the Commercial Landfarm due to the fact that our drinking water and the livestock could be affected in the process of having the landfarm.

Thank you for your consideration.

Sincerely, A MORA

BECEIVED

JAN 3 0 1998

Environmental Bureau Oil Conservation Division

January 20, 1998

Director
Oil Conservation Division
NM Energy, Minerals & Natural Resources
2040 South Pacheco Street
Santa Fe, NM 87505

RE: COMMERCIAL LANDFARM

Dear Director:

I would like to request a public hearing in regards to the proposed Commercial Landfarm site that will be located in the SE/8 of SE/4 & SW/4 of SE/4 of Section 11, T20S, R38E, Lea County, New Mexico.

I am opposed to the Commercial Landfarm due to the fact-that our-drinking-water and the livestock could be affected in the process of having the landfarm.

If you have any further questions or comments contact me in the evenings at (505) 393-7445.

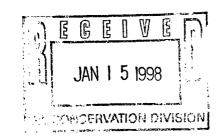
Sincerely, Surventes

Antonio Cervantes

AC/ms

nm Energy Minerals + natural resources 2040 s. Pacheco Str. Santa Fe nm. 87505 January 13, 1998

Director, Oil conservation Division NM Energy, Minerals & Natural Resources 2040 South Pacheco Street Santa Fe, New Mexico 87505



Re: Proposed site of Commercial Landfarm

Sir.

I am writing to express my concerns regarding the construction and subsequent operation of a commercial landfarm by Rhino Environmental Services, Inc., 300 Broadway NE, Albuquerque New Mexico 87102 The proposed site is located in the SE/8 of SE/4 & SW/4 of SE/4 of Section 11, T20S, R38E, Lea County New Mexico.

As a resident and landowner within a one mile radius of the proposed site, I am concerned that the odor, pollution of ground water, and blowing dust will cause the area to be undesirable to reside on.

In regards to the groundwater issue, my watertable is only fourty (40) feet deep, so the leeching of waste is a environmental and health concern. Furthermore, the City of Hobbs currently operates a sewage facility north of the proposed site within one mile. With prevailing south winds the odor issue is somthing that needs to be addressed. And finally the issue of blowing dust that such an operation will surely create also needs to be examined.

I, we, the residents and landowners of the area would like to request a public hearing concerning this matter as soon as possible. Please notify us of the hearing date.

Sincerely, B.D. Hywood

Bill Hazelwood RR69,42380 State Hwy 18 Hobbs NM. 88240 Tract B, NW Quarter Sec11 Township 20, South Range 38 E, N.M.P.M. Lea County NM. Wilma Hardin P.O. Box 5458 Hobbs NM. 88240 Tract B, NW Quarter Sec11 Township 20, South Range 38 E, N.M.P.M. Lea County NM.

Kevin & Phyllis Mattingly
221 Victoria Lane
Hobbs NM. 88240
Nw Quarter Sec11
Township 20, South Range 38 E, N.M.P.M.
Lea County NM.

Juan Huerta 300 E.ast Lea Street Hobbs NM. 88240

MEMORANDUM OF CONVERSATION

TELEPHONE	PERSONAL	TIME 11:00	DATE_1/5/98	
ORIGINATTING P	ARTY Mantyne	Kicling		
OTHER PARTIES	Daniele Ber	radelli.		
DISCUSSION	New Rhino O	CD Landform ?	Permit Application	
Reguet	For additional I	information as te	Depth to water	and
	of Nearby Wells		•	
	<u> </u>		Surrounding Lan	adowners
looks Good				
				<u> </u>
			,	
CONCLUSIONS_	Danielle B	. Will Son	e More Info.	
			· · · · · · · · · · · · · · · · · · ·	
	Martyn Rily			



300 Broadway NE • Albuquerque, New Mexico 87102 (505) 242-6464 • Fax (505) 247-4941 5 County Road 6065 • Farmington, New Mexico 87401 (505)598-9626 • Fax (505) 598-9627

November 17, 1997

Ms. Martyne J. Kieling New Mexico Energy, Minerals, and Natural Resources Department OIL CONSERVATION DIVISION - ENVIRONMENTAL BUREAU 2040 South Pacheco Street Santa Fe, New Mexico 87505

Ph: (505) 827-7153 Fx: (505) 827-8177

Re: New Permit Application

Lea County, New Mexico

Dear Ms. Kieling:

Rhino Environmental Services, Inc. (Rhino) currently owns and operates a 200 acre landfarm permitted by the New Mexico Environment Department (NMED). Rhino would like to section off a sixty acre portion of this property to be used exclusively for the treatment of soils regulated by the Oil Conservation Division (OCD). The farms will be maintained separately and there will be absolutely no commingling of NMED and OCD soils.

As much of the information requested by OCD is similar to that required by NMED, I am submitting some of the same material gathered during the original investigation.

Enclosed for your review is the Application For Waste Management Facility - Form C-137, which has been provided in duplicate for the Santa Fe office (one copy shall be sent to the Hobbs District Office - I) in accordance with your request.

Rhino appreciates your time and consideration. Please don't hesitate to call me if you have any questions or require additional information.

AMI STA

Sincerely

Daniele Berardelli ' Landfarm Manager

CC:

Mr. Wayne Price OCD District - I Hobbs, New Mexico O. Box 1980

obbs. NM 88241-1980

istrict II - (505) 748-1283

15. First

tesia, NM 88210

istrict III - (505) 334-6178

100 Rio Brazos Road

:tec, NM 87410

istrict IV - (505) 827-7131

Energy Mmerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Originated 8/8/95 Revised 6/25/97

Submit Original
Plus 1 Copy
to Santa Fe
1 Copy to appropriate
District Office

	APPLICATION FOR WASTE MANAGEMENT FACILITY (Refer to the OCD Guidelines for assistance in completing the application)
	Centralized
1.	Type: Evaporation Injection Other
	Solids/Landfarm Treating Plant
2.	Operator: Rhino Environmental Services, Inc.
	Address: P.O. Box 25547, Albuquerque, New Mexico 87125 (505) 242-6464
	Contact Person: Daniele Berardelli Phone:(505) 598-9626
3.	Location: SE/8 of SE/ A 8 SW/4 of SE/4 Section 11 Township 20 South Range 38 East Submit large scale topographic map showing exact location Please see Attachment A
4.	Is this a modification of an existing facility? Yes X No
5.	Attach the name and address of the landowner of the facility site and landowners of record within one mile of the site. Please see Attachment B
6.	Attach description of the facility with a diagram indicating location of fences, pits, dikes, and tanks on the facility. Please see Attachment C
7.	Attach designs prepared in accordance with Division guidelines for the construction/installation of the following: pits or ponds, leak-detection systems, aerations systems, enhanced evaporation (spray) systems, waste treating systems, security systems, and landfarm facilities.
8.	Please see Appendix I Attach a contingency plan for reporting and clean-up for spills or releases.
9.	Please see Appendix I Attach a routine inspection and maintenance plan to ensure permit compliance.
10.	Please see Appendix I Attach a closure plan.
	Please see Appendix I
11.	Attach geological/hydrological evidence demonstrating that disposal of oil field wastes will not adversely impact groundwater. Depth to and quality of ground water must be included.
12.	Please see Appendix I Attach proof that the notice requirements of OCD Rule 711 have been met.
13.	Please see Appendix I
	Attach a contingency plan in the event of a release of H ₂ S. Please see Appendix I
14.	Attach such other information as necessary to demonstrate compliance with any other OCD rules, regulations and orders.
15.	CERTIFICATION
	I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	Name: Steve Dyer Titte: President
	Signature: Signature: Date: November 17, 1997



APPENDIX I: Application For Waste Management Facility - Form C-137



Application For Waste Management Facility - Form C-137

3. Topographic / Facility Maps

Please see Attachment A.

5. (a) The names and addresses of the owner, applicant and all principal officers of the business;

Owner:

Steve Dyer

Applicant:

Steve Dyer and Rhino Environmental Services, Inc. 300 Broadway NE, Albuquerque, New Mexico 87102 P.O. Box 25547, Albuquerque, New Mexico 87125

Principal:

Steve Dyer (address is the same)

(b) Landowners within one mile.
Please see Attachment B.

6. Description of the facility.

Sixty acres will be sectioned off and surrounded by fencing. Five acre treatment cells will be constructed, bermed and maintained to prevent runoff and runon (see Attachment C).

- 7. Design of landfarm facility.
 - (a) The facility will be fenced and have a sign at the entrance. The sign will be legible from at least 50 feet and will contain the following information: name of facility, location by section, township and range, and emergency phone number.
 - (b) An adequate berm will be constructed and maintained to prevent runoff and runon for that portion of the facility containing contaminated soils.
 - (c) Buffer zones will be in place of a sufficient size to allow for a road and drainage around the facility.
 - (d) The OCD will be notified of the installation of any pipelines or wells within the boundaries of the facility.
 - (e) All above ground tanks located at the facility and containing materials other than fresh water will be bermed to contain one and one-third the volume of the largest tank or all interconnected tanks.
- 8. Contingency plan for reporting a cleanup of spills or releases;

No spills or releases are anticipated at the facility. The only water allowed on site is used for the purposes of bioremediation and dust control. In the event that a spill or release does occur, the OCD will be notified in accordance with Rule 116.

9. Routine inspection and maintenance plan;

Fences, berms and treatment cells will be inspected frequently. Berms shall be maintained in a manner to prevent erosion from inside or outside the treatment area. Lifts will be inspected to ensure the maximum of six inches is not exceeded. Cells will be checked for any pooling or ponding. The landfarm will also be surveyed for trash or plastic. Any repairs or general maintenance will be performed immediately.

Comprehensive records of all materials accepted into the facility will be maintained by the landfarm manager and made available to the OCD upon request.

General operation and maintenance procedures can be found in more detail listed under item (14) Plan for Management of Approved Wastes.

- 10. Closure plan and cost estimate to close the facility;
 - (a) Closure Plan
 OCD will be notified thirty (30) days prior to intent to cease accepting material and close the

4

RHINO ENVIRONMENTAL SERVICES, INC.

Form C-137, page 2

facility. Existing soils will be remediated until they meet the OCD standards in effect at the time of closure. Cleanup of constructed facilities will be complete within 12 months, unless an extension is granted by the Director of the OCD.

Restoration of the facility location will take place within the following six months, unless an extension is granted by the Director of the OCD. The area will be reseeded with indigenous grasses and allowed to return to its natural state.

Closure will be pursuant to all OCD requirements in affect at the time of closure, and other applicable state or federal regulations.

(b) Cost Estimate

Attachment D is a cost estimate provided by Western Environmental Services, Inc. for Rhino's Goo Yea Commercial Landfarm. Rhino is requesting that OCD accept this closure estimate as representative of the costs which might be incurred to close the proposed facility as well, provided no more than four cells are active.

11. Geological/hydrogeological evidence demonstrating that disposal of oilfield wastes will not adversely impact groundwater.

Enclosed as Attachment E is the geological/hydrogeolgical information gathered as part of Rhino's application to NMED's Ground Water Section. Rhino would like to add that this particular piece of property was investigated by NMED and has been permitted for use as a landfarm facility. Summary sheets of Rhino's permit to operate a landfarm at the proposed location is enclosed as part of Attachment E. In the event that OCD would like to contact NMED for more information, Rhino would like to notify the Division that our current reviewer is Ms. Vicky Maranville at (505) 827-0652.

12. Notice requirements of OCD Rule 711.

Rhino awaits further instruction from OCD, but will adhere to all requirements.

13. Hydrogen Sulfide (H₂S) prevention and contingency plan to protect public health;

Due to the nature of operations and materials accepted at a landfarm facility, no hydrogen sulfide problems are expected. In the event that such a problem is encountered, adherence to OCD Rule 118 will apply.

- 14. Plan for management of approved wastes:
 - (a) Once material has been approved for acceptance into the facility, the following shall occur:
 - i. Material will be accepted only when an attendant is present. The facility will be secured during all other times.
 - ii. All contaminated soils will be disked within 72 hours of receipt (unless prevented by extenuating circumstances, such as bad weather conditions).
 - iii. Soils will be spread in six inch lifts or less.
 - iv. Soils will be disked once every two weeks to enhance biodegradation.
 - v. Successive lifts of contaminated soils will not be spread until a laboratory reports the level of TPH in the previous lift as less than 100 ppm, the total BTEX as less than 50 ppm and the benzene concentration as less than 10 ppm. Comprehensive records of laboratory analysis and sample locations will be maintained by Rhino's Landfarm Manager. Authorization from the OCD will be obtained prior to the spreading of successive lifts and/or removal of remediated soils.

RHINO ENVIRONMENTAL SERVICES, INC.

Form C-137, page 3

vi. The facility is authorized to accept only:

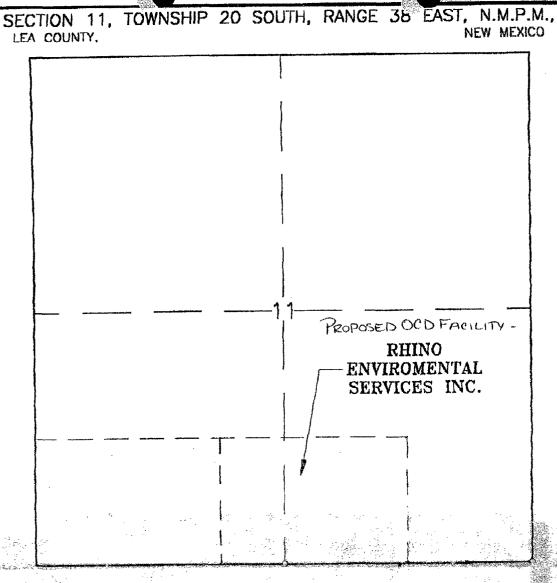
- Oilfield contaminated solids which are exempt from RCRA Subtitle C regulations.
- b. Non-exempt, non-hazardous oilfield contaminated soil (acceptance is on a case by case basis, only after OCD approval).
- c. Other non-oilfield contaminated soils which are RCRA exempt or non-hazardous by characteristic testing (only on an emergency basis if ordered by the Department of Public Safety).
- vii. At no time will the landfarm accept wastes which are hazardous by either testing or listing. viii. All loads received will be accompanied by the following:
 - a. A "Certification of Waste Status" signed by the generator or a "Verification of Waste Status" issued by the New Mexico Environment Department (NMED) or appropriate agency from another state for wastes regulated by that agency.
 - b. The analytical results of Hazardous Waste Characterization for non-exempt waste including reactivity, corrosivity, ignitability (RCI) and toxic constituents and a certification that no listed hazardous wastes are contained within the material. Samples will be collected before material is removed from the generators facility an without dilution in accordance with EPA SW-846 sampling procedures.
- ix. The transporter of all wastes to the facility will supply certification that wastes delivered are those wastes received from the generator and that no additional materials have been added.
- x. Moisture will be added as necessary to enhance biodegradation and to control blowing dust. There will be no ponding, pooling or runoff. Any ponding of precipitation will be removed within seventy-two (72) hours of discovery.
- xi. Enhanced bioremediation through the application of microbes and/or fertilizers will only be permitted after prior approval from the OCD. Request for the application of microbes must include the location of the area designated for the bioremediation program, composition of additives, and the method, amount and frequency of application.
- xii. No free liquids or soils with free liquids will be accepted at the facility.
- xiii. Comprehensive records of all materials received at the facility will be maintained by the landfarm manager. The records for each load will include:
 - a. Origin
 - b. Date received
 - c. Quantity
 - d. Exempt or non-exempt status and analyses if required
 - e. Transporter
 - f. Exact cell location and any addition of microbes, fertilizers, etc.

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ATTACHMENT A - Topographic and Facility Maps

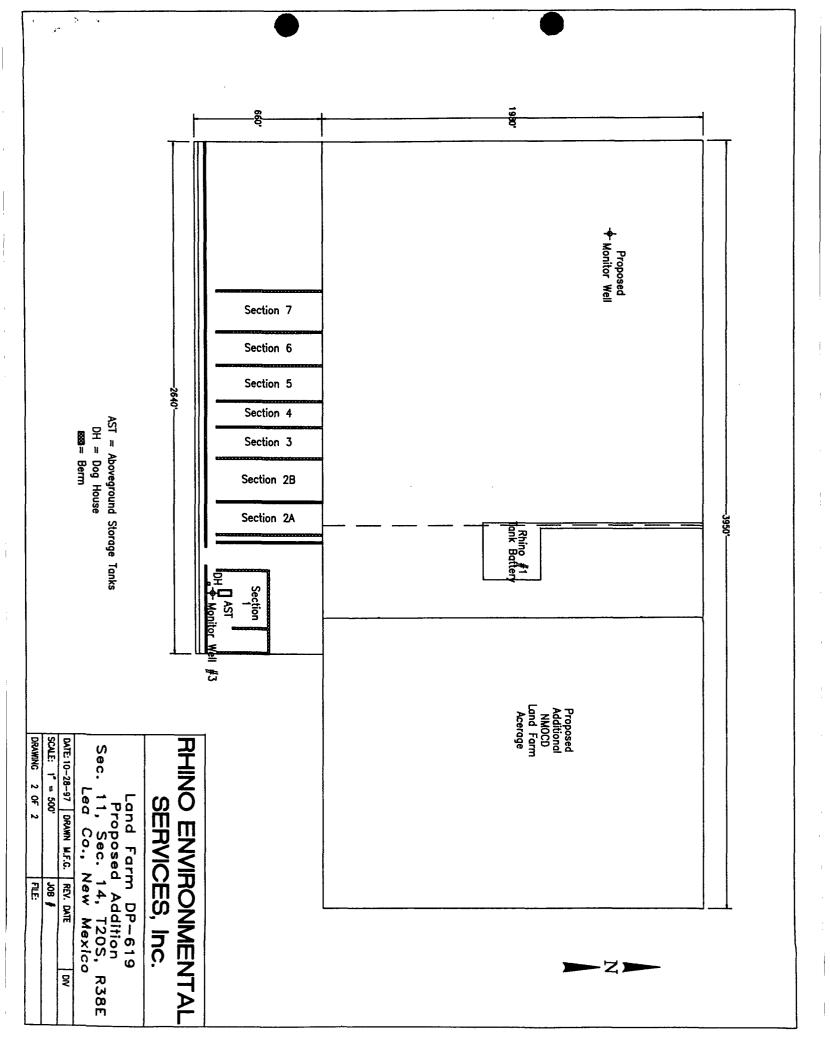
First Map - Large Scale Topographic Second Map - Proposed Landfarm Location. Third Map - Facility Map



RHINO ENVIRONMENTAL SERVICES, Inc.

Land Farm DP-619
Proposed Addition
Sec. 11, Sec. 14, T20S, R38E
Lea Co., New Mexico

DATE: 10-28-97	DRAWN M.F.G.	REV. DATE	VIO		
SCALE: 1" =/000)	JOB #			
DRAWING 2 OF	2	FILE:			



ATTACHMENT B - Landowners of Record



Landowners of Record - One Mile Radius

Section 01, T20S, R38E

Deck, Millard Estate #4193 Nations Bank of Texas 1777 NE Loop 410, Suite 1250 San Antonio, Texas 78217

Section 02, T20S, R38E

City of Hobbs PO Box 1117 Hobbs, New Mexico 88241

Charles R. Myers ST RT A Box 189 Hobbs, New Mexico 88240

Conoco, Inc. PO Box 1267 Ponca City, OK 74603

Section 03, T20S, R38E

W. O. Collins Peggy Wright 7632 Pontiac Place Albuquerque, NM 87105

Felix Ramirez PO Box 215 Humble, TX 77347

Ruth G. Thompson 2700 Windsor Blvd. Oklahoma, OK 73127

Bruce Morris Holding Co. 6253 Hollywood Blvd., #614 Los Angeles, CA 90028

Section 10, T20S, R38E

Robert McCasland PO Box 206 Eunice, NM 88231

Section 11, T20S, R38E

R. E. Hudson

Clyde Arsbon 219 West Anne Hobbs, NM 88240

Lida Beatrice Meyers Star RT A Box 142 Hobbs, NM 88240

Roy N. Magee 8830 Eunice Hwy. Hobbs, NM 88240

Marvin J. Haynes 2 Wisconsin Circle, Suite 400 Chevy Chase, MD 20815

Larry Maddux PO Box 93 Junction, TX 76849

Leon Nowalsky Charles Cabibi 711 Aurora Ave., Suite A Metairie, LA 70005

Lee M. Roberts Star RT A, Box 187 Hobbs, NM 88240



RHINO ENVIRONMENTAL SERVICES, INC.

Lovington, NM 88260

Cedar Crest Properties Russell R. Young Jr. 320 E. Lea Hobbs, NM 88240

R. E. Hudson John E. Tawney PO Box 641 Jal, NM 88252

Dan Hardin 206 Stanolind Rd. Hobbs, NM 88240

Bill R. Melot Antonio Cervantes 405 E. Lea Hobbs, NM 88240

Sabino Calvillo 1217 Landfill Rd. Hobbs, NM 88240

Carl Greenwood Victor Reza PO Box 627 Hobbs, NM 88240

Section 12, T20S, R38E

Bobbi Joey Nuttall Lilly Mae Teel 615 E. Skelly Hobbs, NM 88240

Section 13, T20S, R38E

No new names

Section 14, T20S, R38E

Jenex Operating Co. 1433 17th, Suite 220 Denver, Co 80202

E. E. Taylor PO Box 703 Hobbs, NM 88241 PO Box 703 Hobbs, NM 88241

Cedar Crest Properties Abe Neufeld 2805 Rose Rd. Hobbs, NM 88240

E. R. Taylor PO Box 1461 Hobbs, NM 88240

Cedar Crest Properties Efrain Rodriguez 600 E. Mesquite Hobbs, NM 88240

Reuben Calvillo Debbie Dominguez ST RT A Box 191 Hobbs, NM 88240

Juan Huerta 300 E. Lea Hobbs, NM 88240

Petroleum Processing A. A. Hill, Jr. PO Box 308 Hobbs, NM 88241

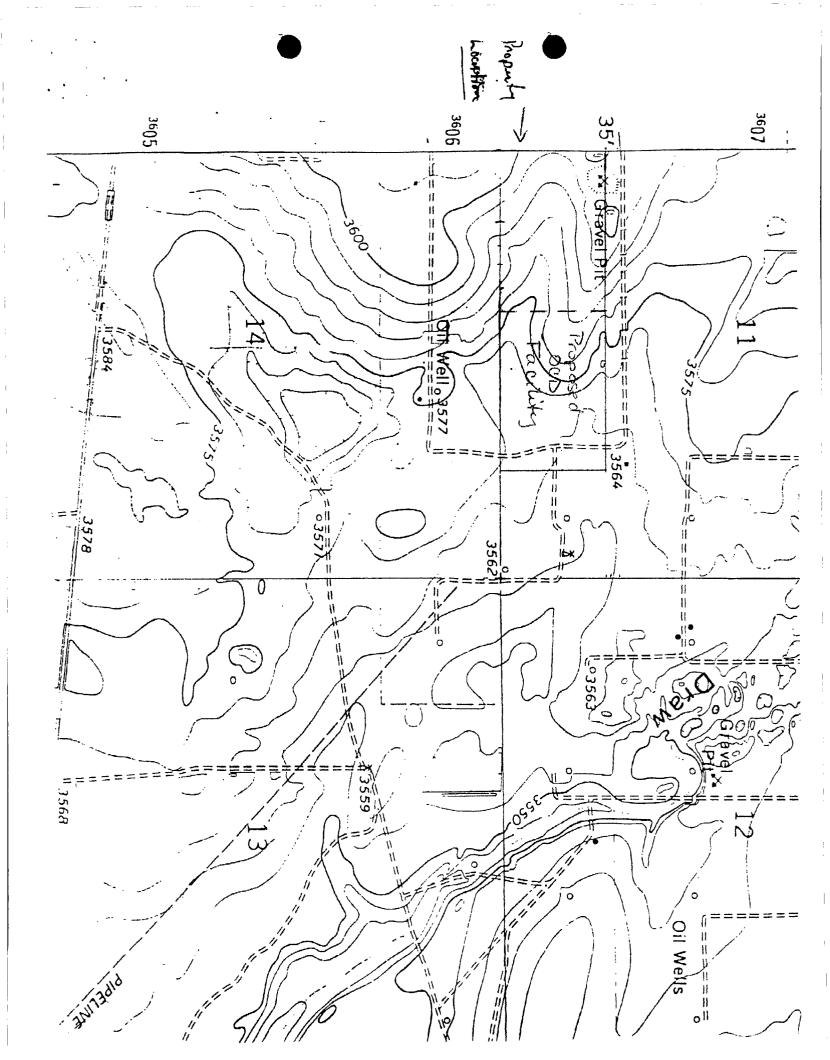
Jewell B. and Donald M Caldwell

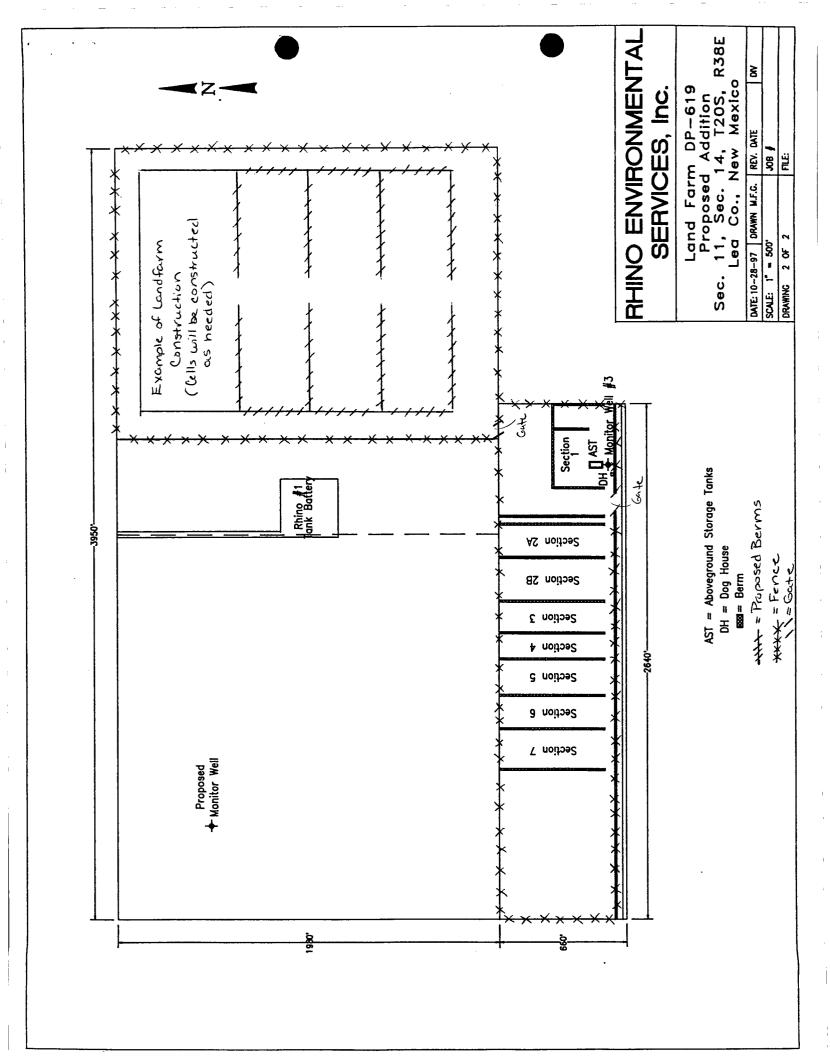


Ernest L. Dickerson & Bill R. Melot PO Box 5153 Hobbs, NM 88241

Section 15, T20S, R38E

Robert A. McCasland Dallas M. McCasland PO Box 206 Eunice, NM 88231 M. H. McGrail Sunwest Bank of Albuquerque PO Box 26900 Albuquerque, NM 87125 **ATTACHMENT C - Example of Landfarm Construction**





ATTACHMENT D - Cost Estimate for Closure



P.O. Box 1816 Hobbs, New Mexico 88241 Phone (505) 392-5021 Fax (505) 397-2597

September 1, 1997

Rhino Environmental Services, Inc. P.O. Box 25547 Albuquerque, NM 87125

Attn.: Daniele Berardelli

Re: Cost estimate to close Goo Yea

Dear Ms Berardelli

Western Environmental Consultants (WEC) would like to take this time to thank you and Rhino Environmental for the opportunity to be of service, on the closure of the Goo Yea land farm, located north of Bronco. Please find below a brief outline and cost estimate to close the site.

Scope of Work

WEC will close the site over a 18 month period, (12 months to remediate the soils and 6 months to return the site back to original state). Closure of the site will be done by disking the soils until closure levels have been met for the state OCD.

Co	st	Es	tim	ate

zilmonths

TOTAL ESTIMATED COST	24,920.00
Water truck to get grass up 2 x / week for 3 weeks	1,800.00 [/]
·	0603,900
Reseed with BLM # 2 range grass @ 80.00/acer x 20	1,600.00 \ 3406 000 3,900
Dirt work to level berms and restore site	10,000.00 000 5,100
Analysis one composite sample per cell @ 120.00/cell x 6	720.00 10,080 + 10,000 11,000.00 00 5,100
Moisture addition once a month for 12 months @ 300.00/mo	3,600.00 000 17,960
Disking twice a month for 12 months @ 600.00/mo	7,200.00



If you have any questions or need more data on this project please call at any time 505-392-5021

Sincerely,

Allen Hodge, REM

VP Operations

Western Environmental Consultants

ATTACHMENT E - Geological/Hydrological Evidence

DEPTH TO WATER INFORMATION

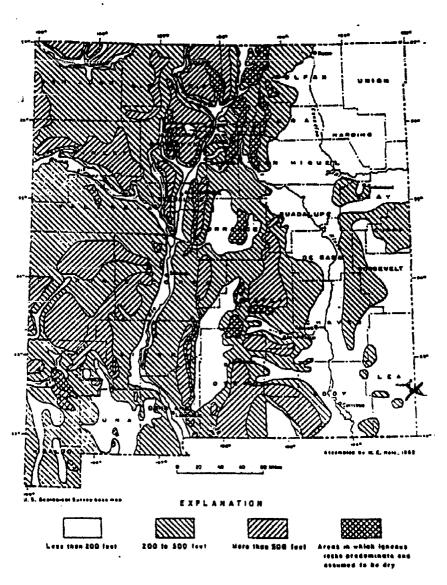


FIGURE S1.—Depth to ground water in New Mexico.

• 1.

RHINO TANK & LINE TESTING, INC.

All this information was obtained from State Engineer's Office, pages 688, 689, 690, 691, 692 of Lea County Water Well/Table Book:

Section 11 Range 38 Township 20S

Well tested in 1981. Dry well. This property is 2.5 miles SE.

Section 23

No record of any wells.

Section 24

! abandoned well. Dry hole.

Section 13

Stock well. Dry hole.

Section 19

115' well tested in 1981. Dry well. Abandoned.

All wells around the immediate area are dry or abandoned with the exception of I well in Section 12 which is NE of property and this well will accumulate enough to pump day to day. Very poor well.

| Depth to Water a

& PUMP SERVICE **EADES DRILLING**

LICENSES Gene: TX 1853 NM 982 Alar Alan: TX 2330 NM 1044

Irrigation - Domestic - Test Holes

Hobbs, N.M. 88240 北部Katy Lane

(505) 392-2457

honitar well #2 Route 4 Box 36 6 Tahoka, TX. 79373 (806) 924-7532

WELL LOG

FORMATION

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& PUMP SERVICE

LICENSES

Gene: TX 1853 NM 982 Alan: TX 2330 NM 1044

Irrigation - Domestic - Test Holes

1225 Katy Lane Hobbs, N.M. 88240

(505) 392-2457

Route 4 13 0x 366 Tahoka, TX. 79373

WELL LOG monitodia

(806) 924-7532

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GROUND WATER QUALITY

SALINE GROUND WATER IN THE TULAROSA BASIN, NEW MEXICO*

bv

J. S. McLEAN
U.S. Geological Survey
Albuquerque, New Mexico

The saline water in the Tularosa Basin has recently become of interest as a source of feed water for desalting plants. A study of this resource has been conducted by the U.S. Geological Survey for the Office of Saline Water (McLean, 1970). Some of the many previous studies include those of Conover and others (1955), Cooper (1965), Herrick and Davis (1965), and Garza and McLean (1972). Other studies and test drilling for White Sands Missile Range have provided data on the extent of the saline water zones.

The complexity faulted graben of the central Tularosa Basin contains more than 6,000 ft of bolson-fill deposits; more than 90 percent of these deposits are saturated with saline water.

Fresh water containing less than 1,000 mg/l (milligrams per litre) dissolved solids occurs only in two zones adjacent to the mountain fronts on the east and west sides of the south part of the basin (Fig. 1). These fresh-water zones supply White Sands Missile Range Headquarters and part of the water requirements of Alamogordo and Holloman Air Force Base. The slightly saline water zone (1,000 to 3,000 mg/l) is utilized by the towns of Carrizozo and Tularosa and also supplies part of the water for irrigation of about 2,500 acres near Tularosa (Garza and McLean, 1972). Water characterized as moderately saline, highly saline, or brine (containing 3,000-10,000, 10,000-35,000, and more than 35,000 mg/l dissolved solids, respectively) is not ordinarily used.

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In the southern part of the basin, the slightly and moderately saline zones are zones of transition between the freshwater tens in the alluvial fans and the moderately to highly saline water in the center of the basin (Fig. 2).

The bolson-fill aquifer is primarily recharged by the ephemeral streams which drain the surrounding mountains and discharge across the permeable alluvial fans at the mouths of steep canyons, and by underflow in these canyons which enters the alluvial fan directly. Flood waters which pass beyong the toe of the alluvial fan are probably evaporated, with little infiltration taking place in the center of the basin.

The quality of the water in the bolson fill is directly related to the rock types exposed in adjacent drainage areas. The dissolved solids content of the water in streams is dependent on the solubility of the rocks in the drainage area. The alluvial fans into which the flood flows infiltrate are composed of alluvium derived from the same drainage area. This alluvium is a source of additional dissolved solids in the ground water. For example, the water in the Rio Tularosa usually contains 1.100-1,700 mg/l dissolved solids, while ground water in the alluvial deposits near Tularosa contains 2,000 to 4,000 mg/l. Figure 1 shows the relationship between water quality and rock types. The freshest water in the basin is at White Sands Missile Range headquarters where a calcium bicarbonate type water containing about 300 mg/l is adjacent to the quartz monzonite of the Organ Mountains. The bolson fill south of Alamogordo near the limestone, dolomite, and sandstone of

*Publication approved by Director, U.S. Geological Survey.

Paleozoic age contains a calcium bicarbonate or calcium minesium bicarbonate type water with variable amounts calcium sulfate and an average dissolved solids concentration about 700 mg/l. The slightly saline zone in the north part the basin, adjacent to the gypsiferous upper part of the S Andres Limestone and the Yeso Formation is a calcium sulfatype water.

Some of the ground water moving through the alluvial fa discharges as springs near the toes of the fans. Evaporati from the shallow water table and from spring discharge p duces a zone of variable salinity near the toes of the allufans. Here more saline water locally overlies fresher water. T playa and playa-margin deposits in the center of the basin co tain saline waters which have been highly concentrated evaporation. Locally, some of these waters approach satural sodium chloride brines. This concentration has been active the past as indicated by the water samples from White Sar Missile Range test well T-14. This well was drilled to a der of 6,015 ft about 4 mi northeast of the White Sands Mis: Range headquarters. It penetrated mostly fine-grained lake-t deposits to a depth of at least 5,200 ft. Below a depth of 3 ft, the water in these deposits contained from 44,300 112,000 mg/l of dissolved solids (Doty and Cooper, 1970). may infer from this that deep drilling elsewhere in the ba would encounter mostly highly saline water to brine.

Well yields in the bolson deposits are variable and rar from 1,400 gpm (gallons per minute) high on the alluvial f. to 100 gpm or less on the toes of the alluvial fans. The tra missivity of the fans is about 1,300 ft²/day (feet squared day). No aquifer tests have been conducted in the prede inantly fine-grained deposits of the central part of the babbut a wide range of transmissivities can be expected depend on whether silt and clay, fine sand, or bedded gypsum encountered in test wells.

REFERENCES

Conover, C. S., Herrick, E. H., Hood, J. W., and Weir, J. E., Jr., 19
The occurrence of ground water in south-central New Mexico
South-Central New Mexico: New Mex. Geol. Soc. Guidebook 6
198-120.

Cooper, J. B., 1965, Ground-water resources of the northern Tular Basin near Carrizoto, Lincoln County, New Mexico: U.S. G. Survey HA-193, 1 p.

Doty, G. C., and Cooper, J. B., 1970. Stratigraphic test well T-14, F Area, White Sands Missile Range, Dona Ana County, New Mex U.S. Geological Survey open-file report, 34 p.

Garza, Sergio, and McLean, J. S., 1972. Fresh-water resources of east side of the Tularosa Basin, New Mexico: U.S. Geol. Sur open-file report, 126 p.

Herrick, E. H., and Davis, L. V., 1965, Availability of ground wate the Tularosa Basin and adjoining areas. New Mexico and Texas. Geol. Survey HA-191, 2 p.

McLean, J. S., 1970. Saline ground-water resources of the Tula Basin, New Mexico: Office of Saline Water Research and Devel. P Ropt. No. 561, 128 p.

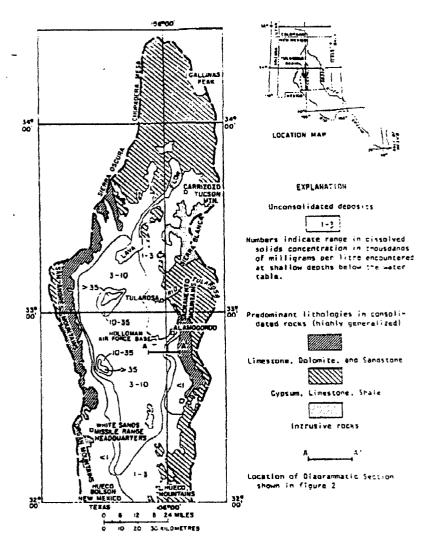


Figure 1. Water-quality zones and consolidated rock lithologies in the Tularosa Basin.

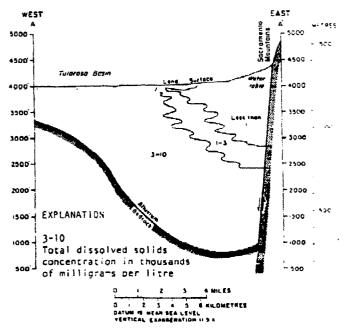
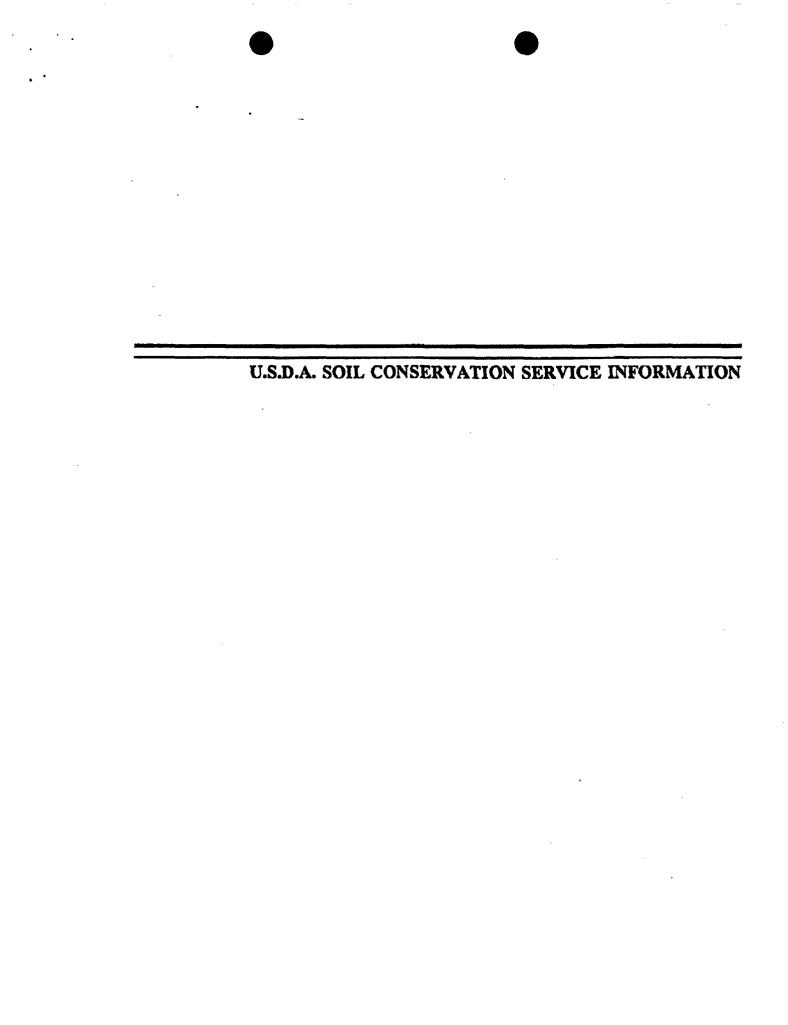


Figure 2. Diagrammatic section A-A: showing water-above zones south of Aramogorao.



Moderate shrink-swell potential and low strength limit use of the Armesa soils for urban development.

If irrigation water were available, the Armesa soils would have moderate potential for farming.

PGB-Pintura-Dona Ana complex, 0 to 5 percent slopes. This complex consists of large areas of deep, well drained and somewhat excessively drained soils. These soils are so intermingled that they could not be separated on the low detail map. This complex is on nearly level to undulating, medium textured and coarse textured dunes and the areas between the dunes (fig. 8). Slope on the sides of the coppice dunes is as steep as 80 percent or more. The Pintura soil is on the partly stabilized coppice dunes, and the Dona Ana soil is between the dunes. The soils formed in medium textured to coarse textured eolian material and local alluvial sediment. Mapped areas are wide and somewhat elongated and are 15,000 to 25,000 acres in size. A few irregularly shaped areas are smaller than 1,000 acres.

The somewhat excessively drained Pintura loamy fine sand makes up about 45 percent of each mapped area. Typically, the surface layer is light reddish brown loamy fine sand about 12 inches thick. The substratum is light reddish brown fine sand and loamy fine sand to a depth

of more than 60 inches.

This soil is slightly calcareous and mildly alkaline throughout. Permeability is rapid, and available water capacity is low.

The well drained Dona Ana fine sandy loam makes up about 35 percent of each mapped area. Typically, the surface layer is reddish brown fine sandy loam about 3 inches thick. The subsoil is reddish brown sandy clay loam about 18 inches thick. The substratum is pinkish gray sandy clay loam and light reddish brown sandy loam to a depth of more than 60 inches.

This soil is strongly calcareous and moderately alkaline throughout. Permeability is moderate, and available water capacity is high.

Included with this complex in mapping are small areas of Berino and Onite soils in depressional areas between the dunes. Also included are areas of Bluepoint soils on the sides of some dunes and small stabilized pockets throughout the area, small areas of Mimbres soils in old relic playa lake bottoms, and Holloman soils on the northern fringe of mapped areas. These soils formed in coarse and medium textured eolian and alluvial sediment. These soils make up about 20 percent of this complex.

The potential for grazing is low. Grazing management should improve or maintain the plant cover, let litter accumulate, and prevent accelerated soil erosion.

Grazing should be managed to increase the production and reproduction of the desirable warm-season grasses such as black grama, bush muhly, plains bristlegrass. and giant dropseed; forbs such as globemallow, croton, and blanketflower: and shrubs such as Mormon-tea and

fourwing saltbush. Periodically deferring grazing dur the summer growing season, June through Septemt improves the vigor and reproduction of the grass Spring rest from grazing encourages the forbs, and and winter rest benefits shrubs. The previous year growth should be left standing during the windy seas February through May, to prevent excessive wind ϵ sion. Varying the seasons of grazing and rest from y to year maintains a balanced plant community that r vides quality forage all year. Continuous year-long gr ing results in a plant community dominated by mesqu sand sagebrush, yucca, American tarbush, brc snakeweed, and threeawn. Range in this condition is little value for grazing and is subject to accelerated w

Mechanical range seeding is not feasible on this co plex because of the small probability that the area receive enough precipitation for establishment of se lings. Chemical brush management is preferable to chanical because of the difficulty of establishing I vegetation on disturbed ground. The spread of yu can be checked by letting cows graze while the pla are in flower in May and June. Intensive grazing mana ment that includes fencing, underground plastic p lines, and livestock watering facilities is feasible. Earl pit tanks can be constructed satisfactorily on the inc ed Mimbres soils.

The forage and browse produced on this comple coarse and is most efficiently used by mature co

This complex has low to moderate potential for will habitat. These soils produce native plants that pro food and cover for scaled and Gambel quail, mour and white-winged dove, and pronghorn antelope.

This complex has low potential for farming. Low av ble water capacity and droughtiness can be overcomfrequent irrigation. Only drip or sprinkler systems suitable. The wind erosion hazard is very severe if the soils are cultivated.

PHB—Pintura-Tome-Dona Ana complex, 0 to 5 cent slopes. This complex consists of small to med sized areas of deep, somewhat excessively drained well drained soils. These soils are so interminated they could not be separated on the low detail map. complex is on large, eroding sand dunes with s sides, on relic take beds undertain by gypsiferous to trine sediment, and in areas of medium textured mabetween dunes. The Pintura soil is on the dunes Tome soil is on the old relic take beds, and the i Ana soil is between the dunes. Mapped areas are in larly shaped and are 600 to 6,000 acres in size. Indial areas of each part range from a fraction of an ac-Pintura soil to as much as 50 acres of Tome soil.

The somewhat excessively drained Pintura loamy sand makes up about 30 percent of each mapped Typically, the surface layer is light recdish brown in fine sand about 12 inches thick. The substratum is

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pores; strongly calcareous; moderately alkaline; clear smooth boundary.

B2ca—8 to 12 inches; pale brown (10YR 6/3) gravelly sandy clay loam, dark yellowish brown (10YR 4/4) moist; weak fine and medium subangular blocky structure; slightly hard, very friable, slightly sticky and slightly plastic; common fine roots; many fine and very fine pores; about 30 percent gravel-size indurated carbonate nodules and 2 percent cobbles of the same material; strongly calcareous; moderately alkaline; clear wavy boundary.

C1ca—12 to 18 inches; pale brown (10YR 6/3) extremely gravelly silt loam, yellowish brown (10YR 5/4) moist; massive; soft, very friable, slightly sticky and nonplastic; common fine roots; many very fine pores; 85 percent cobbles and gravel, cobbles make up 5 percent, and gravel-size carbonate nodules make up 80 percent; strongly calcareous; moderately alkaline; abrupt wavy boundary.

C2cam—18 to 29 inches; white (10YR 8/2) carbonatecemented material, white (10YR 8/2) moist; massive; extremely hard; upper 1/2 inch is laminar; large cobbles recemented or plugged by carbonates; strongly calcareous; moderately alkaline; clear wavy boundary.

C3ca—29 to 60 inches; white (10YR 8/2) very gravelly silt loam, very pale brown (10YR 7/3) moist; massive; very hard, firm, slightly sticky and slightly plastic; limestone cobbles and gravel coated with thick masses of carbonates, about 55 percent coarse fragments of which 15 percent is cobble size and 40 percent is gravel size, about half of each in the form of hard petrocalcic material; strongly calcareous; moderately alkaline.

Depth to the petrocalcic horizon ranges from 12 to 20 inches. A desert pavement of coarse fragments of extremely hard carbonate nodules generally less than 1/2 inch in diameter covers 20 to 45 percent of the surface.

The A horizon has value of 4 or 5 dry and 3 or 4 moist and chroma of 2 or 3. It is very fine sandy loam, fine sandy loam, or loam.

The B2 horizon has value of 4 to 6 dry and 4 or 5 moist. It is sandy clay loam, gravelly sandy clay loam, or gravelly loam and is less than 25 percent clay. This horizon has weak or moderate fine or medium subangular blocky structure.

The C1ca horizon has value of 6 or 7 dry and 4 to 6 moist and chroma of 3 or 4. It is very gravelly silt loam or very gravelly loam. Gravel is petrocalcic material and makes up 50 to 85 percent of the horizon. Cobbles make up 3 to 5 percent.

The Ccam horizon is continuously cemented except for scattered cracks and pipes of nonindurated material. The C3ca horizon has value of 7 or 8 moist and chroma of 2 or 3 dry. It is very gravelly or cobbly silt loam.

Coarse fragments make up 50 to 80 percent or horizon.

Pintura series

The Pintura series consists of deep, somewhat e sively drained soils that formed in coarse textured ϵ material. They are on coppice dunes on uplands of 5 percent slopes. The dunes have slopes of 20 pe to more than 80 percent. The mean annual precipit is about 9 inches, and the mean annual air temper is about 61 degrees F.

Pintura soils are similar to and near Bluepoint and are near Berino, Dona Ana, Holloman, Onite, T and Wink soils. Bluepoint soils are calcareous throut. Berino, Onite, and Dona Ana soils have an a horizon. Holloman soils have bedded gypsum at a c of 20 inches. Tome soils have a fine-silty control se Wink soils have a calcic horizon.

Typical pedon of Pintura loamy fine sand in an ar Pintura-Dona Ana complex, 0 to 5 percent slopes feet west of the Escondida Siding, northwest com NW1/4 sec. 10, T. 20 S., R. 9 E.:

A1—0 to 12 inches; light reddish brown (5YR 6/4) If fine sand, reddish brown (5YR 4/4) moist; signain; loose dry and moist; slightly calcareous; ralkaline; gradual wavy boundary.

C1—12 to 30 inches; light reddish brown (5YR 6/3 sand, reddish brown (5YR 4/4) moist; massive; very friable, nonsticky and nonplastic; slightly creous; mildly alkaline; gradual wavy boundary.

C2—30 to 60 inches; light reddish brown (5YR loamy fine sand, reddish brown (5YR 4/4) r massive; soft, very friable, nonsticky and nonpt slightly calcareous; mildly alkaline.

The A horizon has value of 4 to 6 dry and 3 to 5 r and chroma of 3 or 4. It is loamy fine sand or fine s

The C horizon has value of 4 to 6 dry and 3 to 5 r and chroma of 3 or 4. The C horizon is loamy s loamy fine sand, or fine sand. It ranges from nonce eous to moderately calcareous.

Prelo series

The Prelo series consists of deep, well drained that formed in fine textured alluvium weathered shale and siltstone. Prelo soils are on broad flood pand lower parts of alluvial fans and pediments terming on the basin floor. Slope is 0 to 3 percent. The pannual precipitation is about 9 inches, and the pannual air temperature is about 61 degrees F.

Prelo soils are similar to Largo, Prelo Variant, T Reakor, Reeves, and Mimbres soils and are near A gordo, Prelo Variant, Mimbres, Aztec, Largo, Tome Reeves soils. Prelo Variant soils have a fine-loamy gravel; strongly calcareous; moderately alkaline; clear wavy boundary.

C1ca—4 to 7 inches; dark grayish brown (10YR 4/2) very gravelly clay loam, very dark grayish brown (10YR 3/2) moist; weak very fine granular structure; slightly hard, friable, slightly sticky and slightly plastic; common fine and very fine roots; few very fine interstitial pores; 35 percent gravel; strongly calcareous; moderately alkaline; clear wavy boundary.

C2ca—7 to 14 inches; brown (10YR 4/3) very gravelly clay loam, dark brown (10YR 3/3) moist; weak very fine granular and subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common fine and very fine roots; few very fine interstitial pores: 60 percent gravel; strongly calcareous; moderately alkaline; abrupt wavy boundary.

R—14 inches; limestone bedrock, partially fractured on surface.

Limestone bedrock is at a depth of 7 to 20 Inches. The A horizon has hue of 10YR or 7.5YR, value of 3 to 5 dry and 3 or 4 moist, and chroma of 2 or 3. This horizon is gravelly loam, cobbly loam, very gravelly loam, or very gravelly sandy loam. It is more than 35 percent coarse fragments.

The Cca horizon has value of 3 to 5 dry and chroma of 2 or 3. The Cca horizon is very gravelly loam, very gravelly silt loam, very gravelly clay loam, or very gravelly silty clay loam. The gravel content ranges from 35 to 65 percent. This horizon is 40 to 60 percent carbonate.

Dona Ana series

The Dona Ana series consists of deep, well drained soils that formed in medium and coarse textured eolian material and alluvium. They are on toe slopes of pediments and on sandy uplands. Slope is 0 to 5 percent. The mean annual precipitation is about 9 inches, and the mean annual air temperature is about 63 degrees \bar{r} .

Dona Ana soils are similar to and near Berino soils and are near Pintura, Bluepoint, and Tome soils. Berino soils are noncalcareous in the upper horizons. Pintura and Bluepoint soils do not have a calcic horizon and have a sandy control section. Tome soils do not have a calcic horizon and have a fine-silty control section.

Typical pedon of Dona Ana fine sandy loam in an area of Pintura-Dona Ana complex, 0 to 5 percent slopes, 5 miles north of Orogrande along bar ditch on U.S. Highway 54, sec. 30, T. 20 S., R. 9 E.:

A1—0 to 3 inches; reddish brown (5YR 5/3) fine sandy loam, reddish brown (5YR 4/4) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; few fine and medium roots; few fine tubular pores; strongly calcareous, carbonates disseminated and as soft masses; moderately alkaline; clear smooth boundary.

B21tca—3 to 10 inches; reddish brown (5YR 5/4) si clay loam, reddish brown (5YR 4/4) moist; wea moderate fine and medium subangular blocky s ture; slightly hard, friable, slightly sticky and sliphastic; few fine and medium roots; common interstitial and few fine tubular pores; common bridging of sand grains and few thin clay film root channels and lining pores; strongly calcare lime as soft masses and few nodules; moder, alkaline; clear smooth boundary.

B22tca—10 to 16 inches; reddish brown (5YR sandy clay loam, reddish brown (5YR 4/4) in weak medium prismatic structure parting to move ate fine and medium subangular blocky; hard able, slightly sticky and slightly plastic; few roots; few fine interstitial pores and common tubular pores; common clay bridging of sand g and few thin clay films lining pores and root c nels; strongly calcareous, carbonates as filar and disseminated; moderately alkaline; clear sir boundary.

B23tca—16 to 21 inches; reddish brown (5YR sandy clay loam, reddish brown (5YR 4/4) needs medium subangular blocky structure; han able, slightly sticky and slightly plastic; few roots; few fine tubular pores; few thin clay lining pores; strongly calcareous, carbonates comost ped surfaces and few nodules and con soft masses in lower part; moderately alkaline; wavy boundary.

C1ca—21 to 37 inches; pinkish gray (5YR 7/2) s clay loam, light reddish brown (5YR 6/4) moist; sive; hard, firm, slightly sticky and nonplastic roots; common fine tubular pores; strongly cal ous, carbonates almost plugging horizon and a: masses, nodules, and thick coats; moderately line; clear wavy boundary.

C2ca—37 to 60 inches; light reddish brown (5YR sandy loam, reddish brown (5YR 5/4) moist; sive; hard, very friable, nonsticky and nonplast roots; few fine tubular pores; strongly calcar carbonates as soft masses and filaments; modly alkaline.

The solum ranges from 15 to 30 inches in thick Coarse fragments make up less than 5 percent cone horizon. Patches of desert pavement less that inch thick cover some pedons.

The A horizon has hue of 7.5YR or 5YR and va 5 to 7 dry and 3 or 4 moist. Texture is very fine loam, fine sandy loam, sandy loam, or sandy clay in many pedons the A horizon has been removerosion and a thin layer of wind-deposited material the surface.

The B2t horizon has hue of 7.5YR or 5YR, valu or 6 dry and 4 or 5 moist, and chroma of 3 or 4 sandy clay loam in all parts except in a few p

where the upper part is heavy sandy loam. About one-half of the pedons have a B3ca horizon.

The Cca horizon has hue of 7.5YR or 5YR and value of 6 to 8 dry and 5 to 7 moist.

Dye series

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The Dye series consists of shallow, well drained soils that formed in residuum from sandstone. Dye soils are on upland plains. Slope is 5 to 30 percent. The mean annual precipitation is about 15 inches, and the mean annual air temperature is about 52 degrees F.

Dye soils are near Tortugas, Encierro, and Deama soils. Tortugas soils have a loamy-skeletal control section. Tortugas, Encierro, and Deama soils have a mollic epipedon.

Typical pedon of Dye clay loam in an area of Dye-Encierro complex, 5 to 30 percent slopes, NW1/4SW1/4 sec. 21, T. 24 S., R. 22 E.:

- A1—0 to 1 inch; strong brown (7.5YR 5/6) loam, dark yellowish brown (10YR 3/4) moist; weak thin platy structure; soft, very friable, slightly sticky and slightly plastic; common very fine and fine roots; many fine interstitial pores; moderately alkaline; abrupt smooth boundary.
- B1—1 inc. to 4 inches; yellowish brown (10YR 5/4) clay loam, dark yellowish brown (10YR 4/4) moist; moderate medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; common very fine and fine roots; many fine interstitial pores; moderately alkaline; clear wavy boundary.
- B2t—4 to 17 inches; brown (7.5YR 5/4) clay loam, reddish brown (5YR 4/4) moist; strong medium angular blocky structure; hard, firm, sticky and plastic; few very fine and fine roots; common fine interstitial pores; few thin clay films on faces of peds and lining pores; moderately alkaline; abrupt irregular boundary.
 - R—17 inches; pale brown and light brown (10YR 6/3 and 7.5YR 6/4) sandstone bedrock.

The solum ranges from 10 to 20 inches in thickness. The A1 horizon is strong brown or light yellowish brown loam or clay loam. Gravel content ranges from none to about 30 percent, by volume.

The B2t horizon is brown or very pale brown and ranges from clay to clay loam.

Ector series

The Ector series consists of shallow, well drained soils that formed in material weathered from limestone bedrock. Ector soils are on sides of steep limestone hills and on mesas and plateaus dissected by narrow drainageways. Slope is 20 to 50 percent. Mean annual pre-

cipitation is about 15 inches, and mean annual air te perature is about 60 degrees F.

Ector soils are similar to and near Deama and Los soils. They are also near Kerrick, Pena, and Cale so Deama soils have a mean annual soil temperature less than 59 degrees F. Lozier soils do not have a more epipedon and are more dry. Kerrick soils have a percalcic horizon. Pena and Cale soils are deep.

Typical pedon of Ector gravelly loam in an area Ector-Rock outcrop complex, 20 to 50 percent slop sec. 15, T. 20 S., R. 15 E.:

- A1—0 to 9 inches; grayish brown (10YR 5/2) grav loam, very dark grayish brown (10YR 3/2) mc moderate medium and fine granular structure; slir ly hard, friable, slightly sticky and slightly plas common fine and very fine roots; many very fine fine interstitial pores; 30 percent gravel; strongly careous; moderately alkaline; abrupt smooth bot ary.
- Cca—9 to 17 inches; light gray (10YR 7/1) extrer gravelly loam, light brownish gray (10YR 6/2) m massive; slightly hard, triable, slightly sticky slightly plastic; few fine and very fine roots; in fine interstitial pores; 70 percent gravel; strongly careous; moderately alkaline; abrupt smooth borary.
- R—17 inches; fractured limestone bedrock; coating calcium carbonate in fractures of first several into of bedrock; few fine roots in fractures.

Limestone bedrock is at a depth of 8 to 18 inc Content of coarse fragments ranges from 30 to 70 cent. In some pedons there are fractures in the u few inches of the limestone which are normally filled precipitated carbonates.

The A horizon has value of 4 or 5 dry. The A ho is dominantly gravelly loam out in some pedons is loam or silt loam containing 30 percent or more or fragments.

The Cca horizon is variable in color but normally value of 7 or 8 dry and 6 or 7 moist.

Emot series

The Emot series consists of deep, well drained that formed in alluvium and colluvium from silts shale, and limestone. They are on foot slopes of ments. Slope is 0 to 3 percent. The mean annual pritation is about 10 inches, and the mean annual air perature is about 61 degrees F

Emot soils are similar to Largo, Ograf, and Tome and are near Tome, Nickel, and Largo soils. Large Tome soils have a fine-sity control section. Nickel have a calcic horizon. Ograf soils have coarser te



State of New Mexico ENVIRONMENT DEPARTMENT

Ground Water Protection and Remediation Bureau

Harold Runnels Building 1190 St. Francis Drive, P.O. Box 26110 Santa Fe, New Mexica 87502 (505) 827-2918 phone (505) 827-2965 fax



CERTIFIED MAIL - RETURN RECEIPT REQUESTED

May 16, 1997

Panielle Berardelli
Rhino Environmental Services, Inc.
300 Broadway NE
Albuquerque, New Mexico 87503

RE: DISCHARGE PLAN AMENDMENT APPROVAL, DP-619, Rhino Environmental Services, Inc., Lea County

Dear Ms. Berardelli:

Pursuant to Water Quality Control Commission (WQCC) Reg. 3109, the application for amendment for DP-619, submitted by you to amend the volume of soil to be treated at any one time, the monitoring plan, and the closure plan at the approved treatment and disposal system of Rhino Environmental Services, Inc.(RES), Lea County is hereby approved. The discharge plan was approved on July 17, 1995. The facility is located approximately 8 miles south of Hobbs in Section 11.3.3, 11.3.4, 11.4.4, and 14.2.2, T20S, R38E, Lea County. In approving this discharge plan amendment, the New Mexico Environment Department (NMED) has determined that the requirements of WQCC Reg. 3109.C have been met.

The July 17, 1995 approval letter (copy enclosed) authorizes the discharge of a maximum of 1,200 gallens per day of hydrocarbon contaminated water and 1,000 cubic yards per week of hydrocarbon contaminated soil from environmental investigation and remediation sites. Page 1, paragraph 1 of the July 17, 1995 approval letter describes the approved Rhino Hydrocarbon remediation facility as follows:

The facility will accept only soils contaminated with petroleum hydrocarbons and which are not classified as hazardous under the federal Resource Conservation and Recovery Act (RCRA). Contaminated soil will be spread in 6-inch lifts within the 200 acre treatment area. Bioremediation of the soils will be encouraged through a schedule of watering and disking the soils.

NMED, GROUND WATER SECTION, DISCHARGE PLAN SUMMARY

Discharge Plan Number.... 619 Date Report Generated.... 17-JUL-95 Staff Reviewer..... CHRIS WHITMAN Legally Responsible Party. STEVE DYER PRESIDENT 242-6464 Owner..... STEVE DYER 719 ARNO NE ALBUQUERQUE NM 87102 Facility RHINO ENVIRONMENTAL SERVICES - NADINE, S. HOBBS Primary Waste Type..... INDUSTRIAL UST Treatment..... HYDROCARBON REMEDIATION OTHER Discharge..... LAND APPLICATION DISPOSAL Discharge Location..... 8 MILES SOUTH OF HOBBS Discharge Volume.. 1200 gpd Depth to GW..... 200 feet Application Received..... 29-MAR-95 Public Notice Published... 10-MAY-95 Discharge Plan Approved... 03-DEC-91 TDS..... 1000 mg/l Discharge Plan Expires.... 17-JUL-00

Monitoring Reports due.... 28-FEB 31-MAY 31-AUG 30-NOV

	Annual Frequency		Sampling Description
I	2	3	EAST SIDE & 2 NEW WELLS, SAMPLE IF WATER PRESENT. Analyze by EPA method 8020.
2	4	2	RECORDS OF AMOUNT OF SOIL AND WATER TAKEN TO SITE
6	4		Native soil samples from below treatment area. One sample from 3ft depth per 5
			acres. Samples analyzed by EPA method 418.1.

If this space is checked, monitoring requirements are summarized or explained in more detail on the attached sheet. Any inadvertent omission from this summary does not relieve the discharger of responsibility for compliance with that requirement.

Send All monitoring reports or correspondence to:

CHRIS WHITMAN Ground Water Section Environment Department 1190 St. Francis Drive Santa Fe NM 87503 (505) 827-2900

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

January 5, 1997

CERTIFIED MAIL RETURN RECEIPT NO. P-326-936-378

Ms. Daniele Berardelli Rhino Environmental Services, Inc. 5 County Road 6065 Farmington, NM 87401

RE: Public Notice for Rhino Environmental Services Inc.

Commercial Landfarm Permit Application

SE/8 of SE/4 & SW/4 of SE/4 of Section 11, Township 20 South, Range 38 East, NMPM, Lea

County, New Mexico

Dear Ms Berardelli:

The New Mexico Oil Conservation Division (OCD), has received Rhino Environmental Services, Inc. (Rhino) application for a commercial waste management facility dated November 17, 1997. The application proposes the construction of a landfarm soil remediation 711 facility. The facility is located in the SE/8 of SE/4 & SW/4 of SE/4 of Section 11, Township 20 South, Range 38 East, NMPM, Lea County, New Mexico.

Based on the information provided with the application Form C-137 the OCD has prepared a public notice statement that Rhino must published in the Lovington Daily Record and in the Santa Fe New Mexican newspapers. In addition, a notice shall be sent certified mail to all landowners within one mile of the proposed expansion area.

Rhino must send the original certified affidavit of publication from both the Lovington Daily Record and the Santa Fe New Mexican to the OCD Santa Fe office and a copy to the appropriate District office. In addition, Rhino must send copies of the postal receipt and signed certified return receipt from each of the landowners to both the OCD Santa Fe office and appropriate District office.

If you have any questions please do not hesitate to contact me at (505) 827-7153.

Sincerely,

Martym o Thuly Martyne J. Kieling

Environmental Geologist

attachments

xc with attachments: Hobbs OCD Office

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

Notice is hereby given that pursuant to the New Mexico Oil Conservation Division Regulations, the following application has been submitted to the Director of the Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

Rhino Environmental Services, Inc., Steve Dyer, President, 300 Broadway NE, Albuquerque, New Mexico, 87102, has submitted for approval an application to construct and operate a Rule 711 commercial solids landfarm remediation facility located in the SE/8 of SE/4 & SW/4 of SE/4 of Section 11, Township 20 South, Range 38 East, NMPM, Lea County, New Mexico. Hydrocarbon contaminated soils associated with oil and gas production will be remediated by spreading them on the ground surface in 6 inch lifts or less and periodically disking them to enhance biodegradation of contaminants. Ground water most likely to be affected by any accidental discharges at the surface is estimated to be at a depth of 200 feet with a total dissolved solids concentration estimated to be at 1000 parts per million. The facility is underlain by the Triassic red beds. The permit application addresses the construction, operations, spill/leak prevention and monitoring procedures to be incorporated at the proposed site.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday thru Friday. Prior to ruling on any proposed application, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

If no hearing is held, the Director will approve or disapprove the application based on the information available. If a public hearing is held, the Director will approve the application based on the information in the application and information presented at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 5th day of January, 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

KATHLEEN A. GARLAND, Acting Director

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To Martine Keeling	2 110 1
co. OCD	co. Rhuno
Dept. Environmental	Phone # 598 - 9626
Fax (505) 827-8177	Fax# 597-9627

December 30, 1997

Deck, Millard Estate # 4193 Nations Bank of Texas 1777 NE Loop 410, Suite 1250 San Antonio, Texas 78217

Re:

Commercial Landfarm

Martyne,
I made this up as an example for public notice letters. Let me know if this is OK.
Thanks. DB

Rhino Environmental Services, Inc. (Rhino) would like to inform all landowners within a one mile radius of our intentions to construct and operate a Commercial Landfarm. The proposed site is located in the SE/8 of SE/4 & SW/4 of SE/4 of Section 11, T20S, R38E, Lea County, New Mexico. The facility will comprise approximately 60 acres and will accept only non-hazardous soils regulated by the Oil Conservation Division (OCD). Rhino has submitted an application to the OCD and hopes to begin construction by February, 1998.

The landfarm will operate to properly treat exempt and non-exempt, non-hazardous soils in accordance with all pertinent OCD regulations. This facility will not accept any municipal, special or hazardous waste. The facility will remain fenced and locked during all non business hours. All disposal activities will occur by appointment only.

Any person seeking to comment or request a public hearing on such application must file comments or hearing requests with the Division within 30 days of the date of public notice. Requests for public hearing must be in writing to the Director and shall set forth reasons why a hearing should be held. A public hearing shall be held if the Director determines there is significant public interest.

Director
Oil Conservation Division
NM Energy, Minerals & Natural Resources
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7153