BW - 18

GENERAL CORRESPONDENCE

YEAR(S):

1994 → 1982

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

DRUG FREE

BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

May 19, 1994

CERTIFIED MAIL
RETURN RECEIPT NO. P-111-334-313

Mr. Bob Calhoun
Rowland Trucking Company Inc.
P.O. Box 340
Hobbs, NM 882411

RE: Discharge Plan Requirement BW-018
Trucker's #2 Brine Station
Lea County, New Mexico

Dear Mr. Calhoun,

A review of the file for the discharge plan BW-018, Trucker's #2 Brine Station, located in the NE/4 SW/4, Section 33, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico, has revealed that payment of the February, 1993 discharge plan flat fee has not been submitted to the Oil Conservation Division (OCD). This fee, in the amount of $690.00, was due on February 11, 1993.

In order to continue to be in compliance with Water Quality Control Commission (WQCC) Regulation 3-114 B.6, please remit this fee to the OCD as soon as possible. All checks should be made payable to: **NMED-WATER QUALITY MANAGEMENT** and addressed to the OCD Santa Fe office.

If there are any questions on this matter, please feel free to contact me at (505)827-4080.

Sincerely,

Robert L. Myers II
Petroleum Engineer Specialist

RLM/rlm
XC: OCD Hobbs Office

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

MEMORANDUM

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

TO: Roger Anderson, Environmental Bureau Chief

FROM: Bobby Myers, Petroleum Engineer Specialist

DATE: May 18, 1994

SUBJECT: Delinquent Discharge Plan Fee Payment

Below is a chronological list of discharge plan recipients who have failed to pay their discharge plan filing and/or plan fee.

DP #	Company	Facility	Fee Owed	Date Due
GW-099	Halliburton	Farmington SC	1380	12/30/92
BW-018	Unichem	Trucker #2 BW	690	2/11/93
GW-069	Continental	Carlsbad GP	667	4/29/93
GW-113	Transwestern	Eunice CS	740	6/22/93
GW-150	Llano	Pure Gold CS	690	11/22/93
GW-157	P & A	Farmington SC	1380	12/28/93
GW-115	Halliburton	Artesia SC	1380	1/13/94
GW-161	Associated NG	Rosa CS	690	4/ 7/94
GW-016	GPM	Eunice GP	1717.50	4/25/94
GW-137	Continental	Carrasco CS	276	4/28/94
GW-069	Continental	Carlsbad GP	667	4/29/94
GW-141	Parker&Parsley	Loving GP	667	5/ 6/94
		TOTAL OWED	10944.50	

Note that the last five have recently been due and probably are not really late. However, the Continental Carrasco compressor station fee is a incremental fee, so they had one year since last payment to prepare to submit it.

UNICHEM
INTERNATIONAL

707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, Fax 505/393-6754

March 9, 1993

Mr. William J. LeMay
NM Oil Conservation Division
State Land Office Building
P.O. Box 2088
Santa Fe, NM 87504

CERTIFIED MAIL P 661 764 512

-Pete Turner

Dear Mr. LeMay:

Please be advised that Unichem International is selling its Rowland Trucking Company subsidiary to Mr. Bob Calhoon, P.O. Box 340, Hobbs, NM 88241.

Attached is a certified letter and signed receipt notifying Mr. Calhoon of the transfer of the following discharge plans.

- Unichem International Inc., Trucker's #2 Brine Station Plan BW-18
- Unichem International Inc., Carlsbad Brine Station Plan BW-19
- Unichem International Inc., Eunice Brine Station Plan BW-16
- Unichem International Inc., Truckers #1 Brine Station DP #370- Well plugged 12/90

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

Sincerely,

UNICHEM INTERNATIONAL INC.

Wayne Price
Staff Engineer

LWP:jd
cc: B. Clements
R. Brakey
M. Hughes
Environmental File

UNICHEM
INTERNATIONAL

707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, Fax 505/393-6754

March 9, 1993

Mr. Bob Calhoon
Rowland Trucking Company Inc.
P.O. Box 340
Hobbs, NM 88241

CERTIFIED MAIL P 661 764 513

Dear Mr. Calhoon:

Pursuant to the State of New Mexico Water Quality Control Commission and to the Energy and Minerals Department Oil Conservation Division Rules and Regulations, Unichem International is required by law to notify you that we are transferring the following discharge permits to your company.

- Unichem International Inc., Trucker's #2 Brine Station Plan BW-18
- Unichem International Inc., Carlsbad Brine Station Plan BW-19
- Unichem International Inc., Eunice Brine Station Plan BW-16
- Unichem International Inc., Truckers #1 Brine Station DP #370- Well plugged 12/90

For your reference please find WQCC Part 3-111 (transfer of Discharge Plan) attached.

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

Sincerely,

UNICHEM INTERNATIONAL INC.

Wayne Price

Wayne Price
Staff Engineer

LWP:jd
cc: B. Clements
R. Brakey
M. Hughes
Environmental File

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. *(Extra charge)*
2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:

Mr. Bob Calhoon
Rowland Trucking Company
P.O Box 340
Hobbs, NM 88240

4. Article Number
p 661 764 513

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X Mary Hughes

7. Date of Delivery
3/19/93

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form 3811, Apr. 1989 ★U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

February 11, 1993

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

CERTIFIED MAIL
RETURN RECEIPT NO. P-667-241-939

Mr. Richard Brakey
Unichem International Inc.
P.O. Box 1499
Hobbs, New Mexico 88240

RE: **Approval of Discharge Plan BW-18**
Unichem International Inc., Trucker's No. 2 Brine Station
Lea County, New Mexico

Dear Mr. Brakey:

The **discharge plan renewal BW-18** for the Unichem International Inc., Trucker's No. 2 Brine Station located in the NE/4 SW/4, Section 33, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico, **is hereby approved** under the conditions contained in the enclosed attachment. The renewal application consists of the original discharge plan as approved December 18, 1982; the renewal of the discharge plan approved July 19, 1988; and the renewal application dated November 13, 1992.

The discharge plan renewal was submitted pursuant to Section 5-101.B.3 of the New Mexico Water Quality Control Commission (WQCC) Regulations. It is approved pursuant to Sections 5-101.A and 3-109.C. Please note Sections 3-109.E and 3-109.F which provide for possible future amendments or modifications of the plan. Please be advised that the approval of this plan does not relieve you of liability should your operation result in actual pollution of surface water, ground water, or the environment which may be actionable under other laws and/or regulations.

The monitoring and reporting shall be as specified in the above referenced materials. Please note that Section 3-104 of the regulations requires that "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3-107.C you are required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume.

Pursuant to Section 3-109.G.4, this plan is for a period of five (5) years. This approval will expire July 18, 1998, and you should submit an application for renewal in ample time before this date. Note that under Section 5-101.G of the regulations, if a discharger submits a discharge plan renewal application at least 180 days before the discharge plan expires and is in compliance with the approved plan, then the existing discharge plan will not expire until the application for renewal has been approved or disapproved.

The discharge plan application for the Unichem Trucker's No. 2 Brine Facility is subject to the WQCC Regulation 3-114 discharge plan fee. Every billable facility submitting a discharge plan will be assessed a fee equal to the filing fee of fifty (50) dollars plus one-half of the flat fee or six-hundred and ninety (690) dollars for brine extraction facilities.

The OCD has received your $50 filing fee. The flat fee for an approved discharge plan may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan, with the first payment due upon receipt of this approval.

Please make all checks out to: **NMED - Water Quality Management** and addressed to the OCD Santa Fe Office.

On behalf of the staff of the Oil Conservation Division, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,

William J. LeMay
Director

WJL/kmb

Attachment

xc: Jerry Sexton, OCD Hobbs Office

ATTACHMENT TO DISCHARGE PLAN BW-18 APPROVAL
UNICHEM TRUCKER'S NO. 2 BRINE FACILITY
DISCHARGE PLAN REQUIREMENTS
(February 11, 1993)

1. Monitor Well Inspection: The leak detection monitor well for your single-lined brine storage pond will be inspected quarterly. If fluids are detected in the monitor well the conductivity of the fluid will be measured and the OCD Santa Fe Office will be notified immediately.

2. Brine Storage Pond: A minimum freeboard will be maintained in the pond so that no overtopping of brine occurs. Any repairs or modifications to the pond liner must receive prior OCD approval. In the future, if the pond liner is replaced or a new pond is constructed, then a double synthetic liner with leak detection will be incorporated into the design.

3. Brine Transfer Lines: All below-grade brine transfer lines will be tested for integrity once every five years with the first test conducted prior to the next discharge plan renewal (July 18, 1998). Prior to conducting the integrity test the OCD will be notified of the exact method and date.

4. Sump Inspection: The sump located at the brine loading area will be cleaned out and visually inspected on an annual basis. Any new sumps or below-grade tanks will be approved by the OCD prior to installation and will incorporate secondary synthetic containment and leak detection in their designs.

5. Spill Containment: All brine storage and transfer will be managed in such a manner to keep brine off of the ground surface. Any brine spilled onto the ground surface will be cleaned-up upon discovery.

6. Spill Reporting: All spills and/or leaks will be reported to the OCD Hobbs District Office pursuant to WQCC Rule 1-203 and OCD Rule 116.

7. Production Method: Fresh water will be injected down the annulus and brine will be recovered up the tubing. Reverse flow will be allowed once a month for a maximum of 24 hours for clean out.

8. Maximum Injection Pressure: The maximum operating injection pressure at the well head will be four-hundred and fifty (450) psi.

9. Mechanical Integrity Testing: A mechanical integrity test will be conducted on the well annually. A pressure equal to one and one-half of the normal operating pressure will be maintained for four hours. The OCD will be notified prior to the test so that they may witness the test.

10. Production/Injection Volumes: The volumes of fluids injected (fresh water) and produced (brine) will be recorded monthly and submitted to the OCD Santa Fe Office quarterly.

11. Well Workovers Operations: OCD approval will be obtained prior to performing remedial work or any other workover. Approval will be requested at the OCD Hobbs District Office on OCD Form C-103 "Sundry Notices and Reports on Wells" (OCD Rule 1103-A).

12. Drum Storage: All drums will be stored on pad and curb type containment.

13. Tank Berming: All tanks that contain materials other than fresh water will be bermed to contain one and one-third times the capacity of the tank.

14. Closure: The OCD will be notified when operations of the facility is discontinued for a period in excess of six months. Prior to closure of the facility a closure plan will be submitted for OCD approval. Closure and waste disposal will be in accordance with the statues, rules and regulations in effect at the time of closure.

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal	Time	Date
	11:30 A.M.	Feb. 10, 1993

Originating Party	Other Parties
K.M. Brown - OCD	Wayne Price - Unichem 393-7751

Subject: Unichem Truckers No. 2
Discharge Plan Renewal
OCD conditions of approval - will Unichem accept.

Discussion:
1. Are brine lines underground? Yes, about 6'. Will commit to testing for integrity once every 5 years.
2. Annual MIT's are required. OK
3. Sump at loading rack must be inspected (cleaned out) annually. OK.
4. Monitor well must be inspected quarterly & if fluids, check conductivity & notify OCD SF. OK
5. Last volume (produced, injected) was 1991 4th quarter, need to begin submitting these again. OK.
6. No aboveground tanks. 2 drums of solid waste will be removed within 60 days

Conclusions or Agreements:
7. Containment as required.

Distribution:

Signed Kathleen Brown

INVENTORY OF SOLUTION MINING WELLS -- OIL CONSERVATION DIVISION, 1991

I. OPERATOR/LOCATION INFORMATION

Operator: Unichem International

Address: P.O. Box 1499; 707 N. Leech

Hobbs, NM 88240 Phone: 393-7751

Facility Truckers No. 2

T. 18S R. 38E Sec. 33 NE 1/4 of SW 1/4

County: Lea

Purpose of well (brine supply, LPG storage, potash dissolution)

Brine Supply

II. DRILLING/SITING INFORMATION

Contractor: Continental Oil Co.

Date drilling started _____ Date drilling completed Feb 20, 1949

Drilling method _____

Ground Surface Elevation 3637' KB Elevation _____

Total depth of hole 3198'

Attach schematic of well, include open hole interval, perforations, etc.

Type of drilling fluid _____

Describe all casing tests performed to date Well P/A 1/13/71 by spotting 40 sx over perfs at 3148-3156' & 10 sx in top of 5½" csg. PBTD 2935

Formerly Conoco A-33 Well #10

CASING, TUBING AND CEMENTING RECORD

From	To	Size of Hole	Size of Casing	Weight per Foot	Sacks of Cement	Estimated Top of cmt.
0'	345'		9 5/8"		200	Circ.
0'	3195'	7 7/8	5 1/2"	15.5#	1000	Circ

Perfed from 2400' - 2410' (20 holes); & 2060' - 2070' (20 holes)
Baker Lok-Set Packer @ 2100'

Is site within 1/4 mile of another well? Is so, explain. 11 Wells in AOR

3 - P/A 6 - oil producing (Shell Hobbs G/SA Unit)

2 - injection (Shell

Type of well-head equipment _____

Comments (include problems encountered while drilling, loss of circulation, deviation of hole from vertical, centralizers, used, tools lost or stuck, fracturing techniques used, etc.) _____

III. FORMATION INFORMATION

Formation Record

From	To	Thickness	Formation (name, description)
0'-30'	30'		Caliche
30-310'	280'		Red Bed & Sand
310'-1930'	1620'		Anhydrite & Shale
1930'-2045	115'		Salt & Anhydrite
2045-2430	385'		Salt

Logs (specify type) _____

Identify where logs are on file _____

IV. AQUIFER INFORMATION

Aquifers in Immediate Area

From	To	Aquifer Description	Amount of Water entering hole	Quality of Water
60	200'	Ogallala Tertiary Sand & Gravel		

8 wells in ADR - In Hobbs, probably P/A

Note: If water quality analysis are available please attach.*

Source of aquifer description State Engineer - Discharge Plan

Source of water level and quality data _____

Depth water first encountered during drilling _____

Direction of water gradient NW to SE, down gradient ↘

Explain any evidence of water contamination _____

V. PRODUCTION/BRINE STORAGE INFORMATION

Method of production (describe fully) Maximum Well head pressure of 450 psig. Injection pressure from 275-400. Fresh water injected down annulus through perfs @ 2060-2070' & ~~back up~~ back thru perfs @ 2400'-2410' & up tubing (packer @ 2100').

Was well used previously for some purpose other than brine supply Yes

If so, explain Oil well - Bowers Sand

Use of brine O&G E&P operations

Source of injection water (be specific) Hobbs City Water Line

Date of first production January 1968

Volume of brine produced to date

Weight of salt removed to date Brine is 304165 ppm TDS (3-24-82) 396,355 (8-25-87), 287,889 (1-3-92).

Calculated size and shape of cavity to date

Explain any evidence of subsidence and any subsidence monitoring

No evidence of subsidence

Brine storage facilities (describe) Single Lined Brine Storage Pond (30 mil Hypalon) 155' x 155' = 24,025 ft^2 Installed liner 10/10/80. Net exemption approved Aug 23, 1989 by Hobbs District Supervisor (Gary Sexton). 11,260 bbl. pit.

Explain how brine storage pit is being monitored for leakage Sump checked quarterly

Explain brine loading procedures From pit to brine loading platform via pump. Have overflow sump & underground lines between pit & loading platform. Brine well discharge lines

Explain fresh water loading procedures Line directly to well from ~~co~~ city of Hobbs

VI. ABANDONMENT/PLUGGING RECORDS

Date well abandoned/plugged _____

Reason for well abandonment or plugging _____

_____

Method of plugging or proposed plugging (describe fully, include amounts of cement, etc. top, plug type, depth, etc.) _____

_____

_____

_____

_____

List all conduits in the area of review. Include completion and plugging records.

_____

_____

_____

_____

$ 50,000 Blanket Plugging Bond No. 4446488

VII. CHRONOLOGY OF EVENTS

UNICHEM
INTERNATIONAL

707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, Fax 505/393-6754

January 19, 1993

Mr. Roger C. Anderson
State of New Mexico
Energy, Minerals & Natural Resources Dept.
Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504

Dear Roger:

Enclosed is a copy of the MIT per your request. This is for Unichem International Inc. Trucker's #2 Brine Station Discharge Permit # BW-18.

If you have any questions please call.

Sincerely,

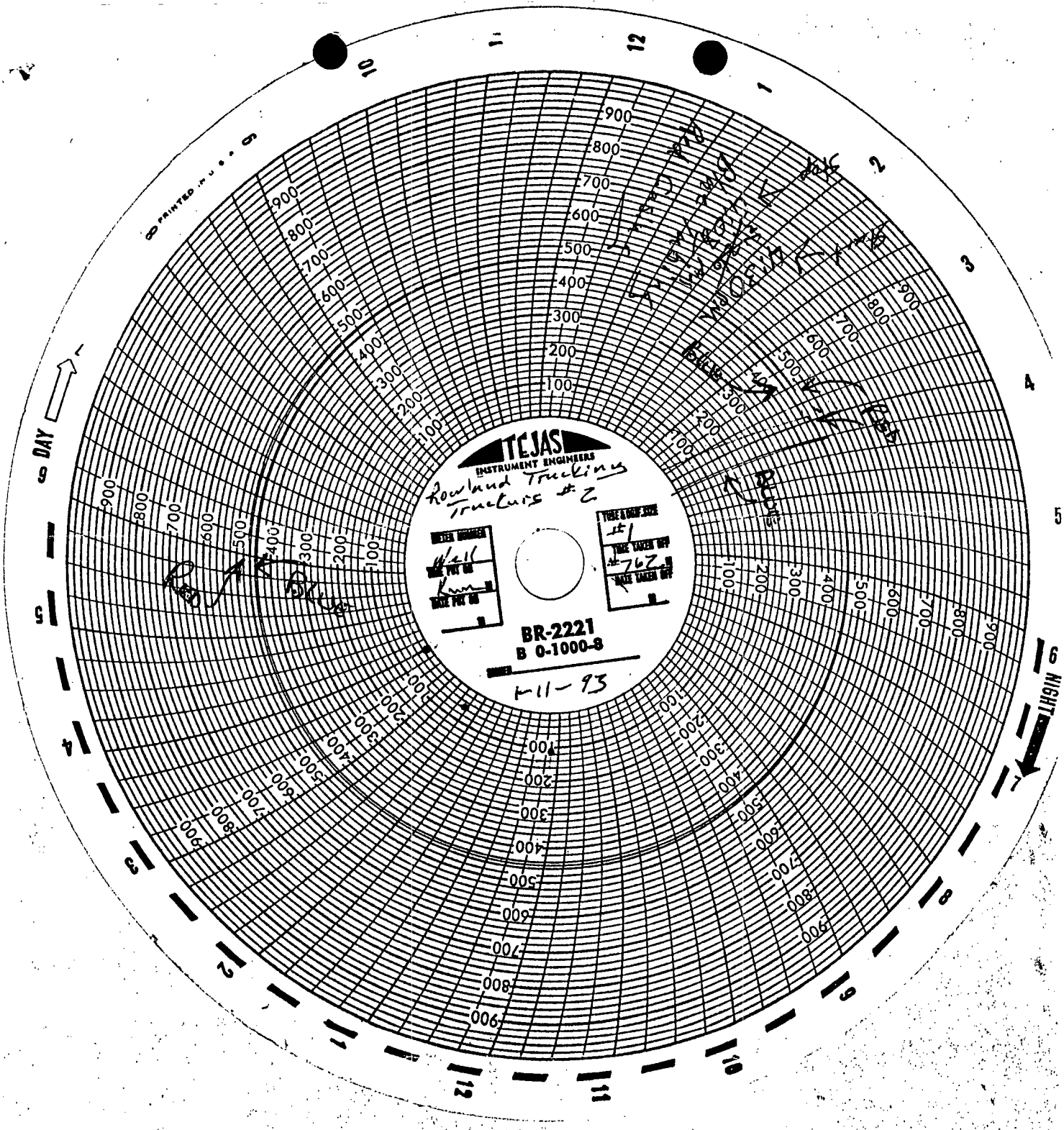
UNICHEM INTERNATIONAL INC.

Wayne Price
Staff Engineer

LWP:pm

Enclosure

cc: R. Brakey
M. Hughes
B. Clements

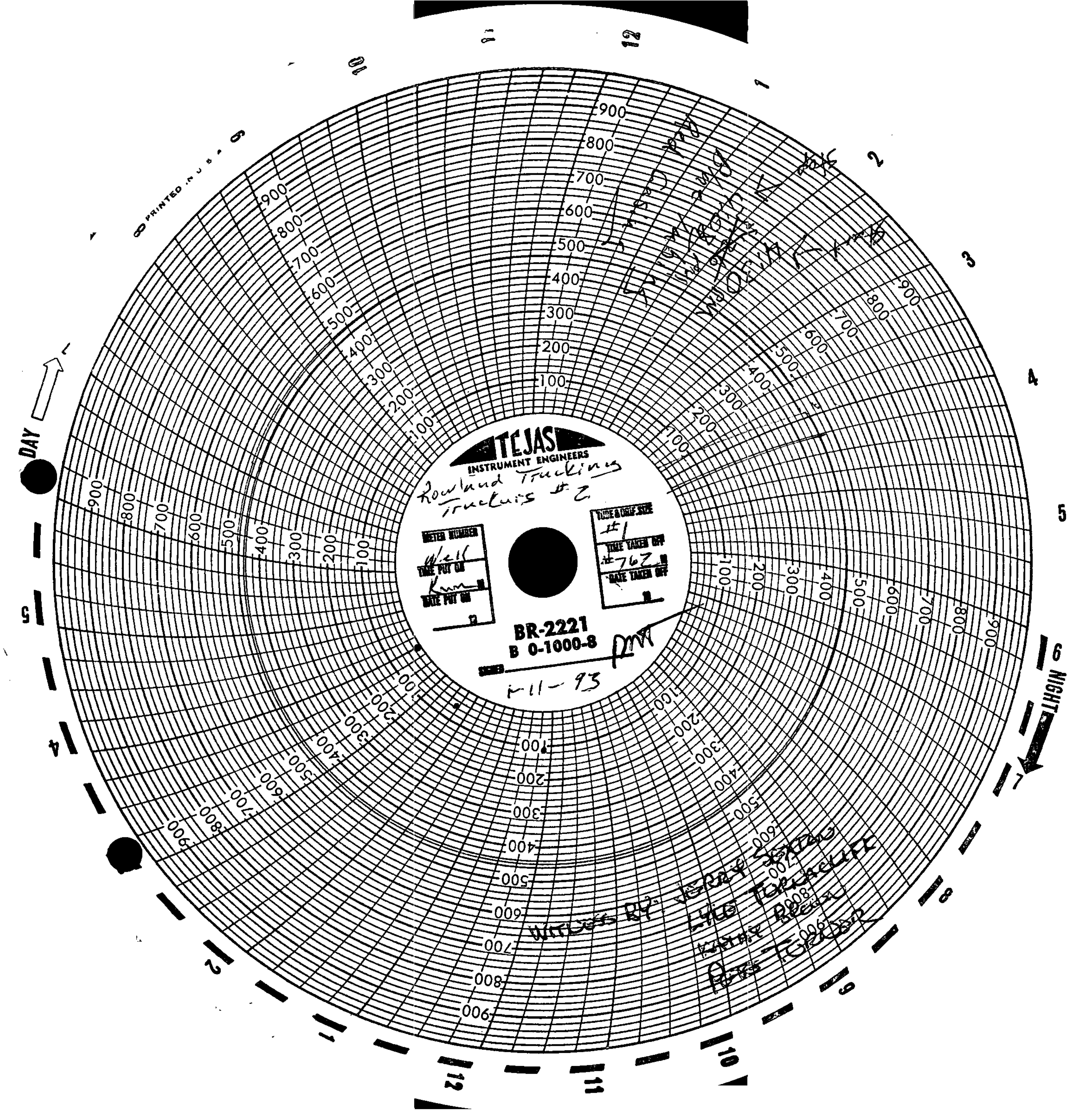


PETE TURNER

WITNESSED BY: JERRY SEXTON OCD (HOBBS

KATHY BROWN

LYLE TURNACLIFF OCD (HOB


TEJAS
INSTRUMENT ENGINEERS
Rowland Trucking
Truckers #2
METER NUMBER
Well
TIME PUT ON
DATE PUT ON
TUBE & ORIF. SIZE
#1
TIME TAKEN OFF
DATE TAKEN OFF
BR-2221
B 0-1000-8
SIGNED
DAY
NIGHT
PRINTED IN U.S.A.

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

RECEIVED
'93 JAN 6 AM 9 22

BRUCE KING
GOVERNOR

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

MEMORANDUM

TO: Kathy Brown

FROM: Jerry Sexton JS

SUBJECT: TESTING OF BRINE WELLS
XL TRANSPORTATION AND ROWLAND TRUCKING

DATE: January 4, 1993

XL Transportation and Rowland Trucking will test their brine wells while you are down here.

They will start pressuring the cavity on January 9, 1993 and the test will start the 11th and will continue until the well is stabilized to your satisfaction.

A meeting is set up with Dale Gandy at their treating plant on the 12th at 10:00 a.m.

JS/sad

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

BRUCE KING
GOVERNOR

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

January 4, 1993

Rowland Trucking Company
418 S. Grimes
Hobbs, NM 88240

Attn: Pete Turner

RE: TESTING OF BRINE WELLS

Gentlemen:

This is to confirm the test on the brine well starting January 11, 1993.

If you will pressure up on the cavity on the 9th to 50% over operating pressure and keep this pressure on it, the Oil Conservation Division (OCD) will start witnessing the test on the 11th.

Please have a 24 hour dual recorder set up on the well with one pin on the tubing side and one pin on the casing side.

Very truly yours,

JERRY SEXTON

JS/sad

xc: Kathy Brown - OCD Santa Fe

UNICHEM INTERNATIONAL INC P.O. BOX 1499-HOBBS, NEW MEXICO 88240

INVOICE NO.	INVOICE DATE	DESCRIPTION	GROSS AMOUNT	DISCOUNT	NET AMOUNT
2690	VENDOR	NEW MEXICO WATER QUALITY		CHECK DATE	11/17/92
111292	11/12/92	BW-18	50.00	.00	50.00
CHECK NO.	[redacted]	TOTALS	50.00	.00	50.00

0033

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 11/17/92,
or cash received on 12/29/92 in the amount of $ 50
from Unichem Internatiend
for Truckers No. 2 Brine Facility BW-18
(Facility Name) (DP No.)
Submitted by: _____ Date: _____
Submitted to ASD by: Kathy Brown Date: 12/29/92
Received in ASD by: _____ Date: _____

Filing Fee X New Facility ___ Renewal ___
Modification ___ Other _____
(specify)

Organization Code ~~B~~ 521.07 Applicable FY 93

To be deposited in the Water Quality Management Fund.

Full Payment ___ or Annual Increment ___

UNICHEM INTERNATIONAL

UNICHEM INTERNATIONAL INC.
P.O. BOX 1499 (505) 393-7751
HOBBS, NEW MEXICO 88240

FIFTH THIRD BANK OF MIAMI VALLEY
P.O. BOX 1117
PIQUA, OHIO 45356-1117

56-219
422

CONTROL NUMBER [redacted]

CHECK DATE	CHECK NO.
11/17/92	[redacted]

CHECK AMOUNT

**********50.00

FIFTY AND 00/100**********

VOID AFTER 180 DAYS FROM DATE

PAY TO THE ORDER OF NEW MEXICO WATER QUALITY MANAGEMENT FUND

AUTHORIZED SIGNATURE

[redacted]

ROWLAND TRUCKING COMPANY

PHONE
(505) 397-4994

418 SOUTH GRIMES
HOBBS, NEW MEXICO 88240

PHONE
(505) 393-9023

December 7, 1992

Mr. Jerry Sexton
Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88241

Re: Unichem International, Trucker's No. 2 Brine Station
Lea County, New Mexico - Discharge Permit Renewal
DP-371

Dear Jerry,

After obtaining your approval, we intend to run a mechanical integrity test on our Trucker's No. 2 brine well located in Section 33, Township 18S, Range 38E. We plan to close the discharge line and to use the system's triplex pump to charge the formation to approximately 425 PSI (top hole fracture pressure is 560 PSI).

When the formation stabilizes, we will install a 24-hour chart recorder and will monitor the pressure as required.

As soon as we get your approval, we will set a date and advise you before installing the recorder.

Sincerely,

ROWLAND TRUCKING COMPANY

Pete M. Turner
Manager

cc: Wayne Price
Richard Brakey

Fowler-Propst 12/3/92
Donahoo
Bailey
Bristol
Burton
Cervantes
Clayton
Cully, A
Cully, B
Custer
Garrasen
Hanson
Mullins
Orms
Richardson
Wilson
File:

NOTICE OF PUBLICATION

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

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan renewal application has been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

(BW-18) - Unichem International, Wayne Price, P.O. Box 1499, Hobbs, New Mexico, 88240, has submitted a renewal application for the previously approved discharge plan for their insitu extraction brine well facility. The Unichem Truckers #2 Brine Station is located in the NE/4 SW/4, Section 33, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Fresh water is injected into the Salado Formation at an approximate depth of 2000 feet and brine is extracted with an average total dissolved solids concentrations of about 390,000 mg/l. Groundwater most likely to be affected by an accidental discharge is at a depth of 60 feet with a total dissolved solids concentration of approximately 500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

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 discharge plan application may be viewed at the above address between 8:00 aa.m. and 5:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, 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. Requests for public hearing shall set forth the reasons why a hearing should be held., A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 30th day of November, 1992.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LEMAY, Director

NO EFFECT FINDING

The described action will have no effect on listed species, wetlands, or other important wildlife resources.

Date 12.17.92

SEAL

Consultation # 2-22-I-93-076

Approved by Michael J. Donahoo

U.S. FISH and WILDLIFE SERVICE
NEW MEXICO ECOLOGICAL SERVICES FIELD OFFICE
ALBUQUERQUE, NEW MEXICO

NOTICE OF PUBLICATION

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

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan renewal application has been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

(BW-18) - Unichem International, Wayne Price, P.O. Box 1499, Hobbs, New Mexico, 88240, has submitted a renewal application for the previously approved discharge plan for their insitu extraction brine well facility. The Unichem Truckers #2 Brine Station is located in the NE/4 SW/4, Section 33, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Fresh water is injected into the Salado Formation at an approximate depth of 2000 feet and brine is extracted with an average total dissolved solids concentrations of about 390,000 mg/l. Groundwater most likely to be affected by an accidental discharge is at a depth of 60 feet with a total dissolved solids concentration of approximately 500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

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 discharge plan application may be viewed at the above address between 8:00 aa.m. and 5:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, 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. Requests for public hearing shall set forth the reasons why a hearing should be held., A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 30th day of November, 1992.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

S E A L

WILLIAM J. LEMAY, Director

Affidavit of Publication

STATE OF NEW MEXICO)

) ss.

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

Notice Of Publication

and was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, once each week on the same day of the week, for one (1) day consecutive weeks, beginning with the issue of December 3, 19 92 and ending with the issue of December 3, 19 92

And that the cost of publishing said notice is the sum of $ 36.19 which sum has been (Paid) as Court Costs

Joyce Clemens

Subscribed and sworn to before me this 9th day of December, 19 92

Notary Public, Lea County, New Mexico

My Commission Expires Sept. 28, 19 94

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 New Mexico Water Quality Control Commission Regulations, the following discharge plan renewal application has been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505)827-5800:

(BW-18) - Unichem International, Wayne Price, P.O. Box 1499, Hobbs, New Mexico, 88240, has submitted a renewal application for the previously approved discharge plan for their insitu extraction brine well facility. The Unichem Truckers #2 Brine Station is located in the NE/4 SW/4, Section 33, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Fresh water is injected into the Salado Formation at an approximate depth of 2000 feet and brine is extracted with an average total dissolved solids concentrations of about 390,000 mg/l. Groundwater most likely to be affected by an accidental discharge is at a depth of 60 feet with a total dissolved solids concentration of approximately 500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

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 discharge plan application may be viewed at the above address between 8:00 a.m. and 5:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, 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. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 30th day of November, 1992.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
WILLIAM J. LEMAY,
Director

SEAL

Published in the Lovington Daily Leader December 3, 1992.

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 Water Quality Control Commission Regulations, the following discharge plan applications have been submitted to the Director of the Oil Conservation Division, State Land Office Building, PO Box 2088, Santa Fe, New Mexico 87504-2088, Telephone 505-827-5800:

(BW-18) - Unichem International, Wayne Price, PO Box 1499, Hobbs, New mexico 88240, has submitted a renewal application for the previously approved discharge plan for their insitu extraction brine well facility. The Unichem Truckers #2 Brine Station is located in the NE/4SW/4, Section 33, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Fresh water is injected into the Salado Formation at an approximate depth of 2000 feet and brine is extracted with an average total dissolved solids concentrations of about 390,000 mg/l. Groundwater most likely to be affected by an accidental discharge is at a depth of 60 feet with a total dissolved solids concentration of approximately 500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed

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 discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, 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. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is hel, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing

GIVEN under the Seal of the New Mexico Oil Conservation Commission at Santa Fe, New Mexico on this 30th day of November, 1992

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
s/William J. Lemay, Director

Journal: December 10, 1992

STATE OF NEW MEXICO
County of Bernalillo ss

Thomas J. Smithson being duly sworn declares and says that he is National Advertising manager of the **Albuquerque Journal** , and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chaper 167, Session Laws of 1937, and that payment therefore has been made or assessed as court costs; that the notice, a copy of which is hereto attached, was published in said paper in the regular daily edition,

for 1 times, the first publication being on the 10 day of Dec., 1992, and the subsequent consecutive publications on ....., 1992.

OFFICIAL SEAL
Bernadette Ortiz
NOTARY PUBLIC - STATE OF NEW MEXICO
NOTARY BOND FILED WITH CLERK OF STATES
My Commission Expires 12-18-93

Sworn and subscribed to before me, a Notary Public in and for the County of Bernalillo and State of New Mexico, this 10 day of Dec., 1992.

PRICE $23.14

Statement to come at end of month.

CLA-22-A (R-12/92) ACCOUNT NUMBER C81184

RMB

UNICHEM
INTERNATIONAL

707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, Fax 505/393-6754

November 12, 1992

Mr. Roger C. Anderson
State of New Mexico
Energy, Minerals & Natural Resources Dept.
Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504

Dear Roger:

Enclosed is the discharge plan application renewal for our Unichem International Trucker's #2 Brine Station, BW-18. Also enclosed is a check for $50.00 made out to the water quality management fund to cover the filing fee.

You should also be receiving a MIT in the near future per your request.

If you have any questions please call me.

Sincerely,

UNICHEM INTERNATIONAL INC.

Wayne Price
Staff Engineer

LWP:jd
Enc.
cc: R. Brakey
M. Hughes
B. Clements

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87501

DISCHARGE PLAN APPLICATION FOR BRINE EXTRACTION FACILITIES

(Refer to OCD Guidelines for assistance in completing the application.)

☐ NEW ☒ RENEWAL

I. FACILITY NAME: **UNICHEM INTERNATIONAL, TRUCKER'S #2 BRINE STATION**

II. OPERATOR: Rowland Trucking Company

ADDRESS: P.O. Box 1499, Hobbs, NM 88240

CONTACT PERSON: Wayne Price PHONE: 393-7751

III. LOCATION: ___/4 ___/4 Section 33 Township 18S Range 38E

Submit large scale topographic map showing exact location.

IV. Attach the name and address of the landowner of the facility site.

Information on file NMOCD, Santa Fe, NM Discharge Plan BW-18

V. Attach a description of the types and quantities of fluids at the facility.

Information on file NMOCD, Santa Fe, NM Discharge Plan BW-18

VI. Attach a description of all fluid transfer and storage and fluid and solid disposal facilities.

Information of file NMOCD, Santa Fe, NM Discharge Plan BW-18

VII. Attach a description of underground facilities (i.e. brine extraction well).

Information of file NMOCD, Santa Fe, NM Discharge Plan BW-18

VIII. Attach a contingency plan for reporting and clean-up of spills or releases.

Information of file NMOCD, Santa Fe, NM Discharge Plan BW-18

IX. Attach geological/hydrological evidence demonstrating that brine extraction operations will not adversely impact fresh water.

Information of file NMOCD, Santa Fe, NM Discharge Plan BW-18

X. Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

Information of file NMOCD, Santa Fe, NM Discharge Plan BW-18

XI. CERTIFICATION

I hereby certify under penalty of law that I have personnaly examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Name: Richard Brakey Title: Vice President - Rowland Trucking Co. Operations

Signature: Richard Brakey Date: 11/13/92

DISTRIBUTION: Original and one copy to Santa Fe with one copy to appropriate Division District Office.

Note that the completed and signed application form must be submitted with your discharge plan renewal request.

If you no longer have any actual or potential discharges a discharge plan renewal is not needed, please notify this office. If you have any questions, please do not hesitate to contact Kathy Brown at (505) 827-5884.

Sincerely,

Roger C. Anderson
Environmental Bureau Chief

RCA/kmb

Enclosures

xc: OCD Hobbs Office

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

October 6, 1992

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

CERTIFIED MAIL
RETURN RECEIPT NO.P-667-241-871

Mr. Richard Brakey
Rowland Trucking Operations
Unichem International Inc.
P. O. Box 1499
Hobbs, New Mexico 88240

RE: Discharge Plan BW-18 (formerly DP-371)
Unichem International, Trucker's #2 Brine Station
Lea County, New Mexico

Dear Mr. Brakey:

On July 19, 1988, the ground water discharge plan, BW-18 for the Unichem International Inc., Trucker's #2 Brine Station located in Section 33, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico, was approved by the Director of the Environmental Improvement Division (EID). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years. The approval will expire on July 19, 1993. Please note the new discharge plan number (BW-18), formerly DP-371, which will be the permanent designation used in all future correspondence.

If your facility continues to have potential or actual effluent or leachate discharges and you wish to continue operations, you must renew your discharge plan. The OCD is reviewing discharge plan submittals and renewals carefully and the review time can often extend for several months. Please indicate whether you have made, or intend to make, any changes in your discharge system, and if so, please include these modifications in your application for renewal. To assist you in preparation of your renewal application, I have enclosed an application form and a copy of the OCD's Guidelines for the Preparation of Ground Water Discharge Plans at Brine Extraction Facilities, revised May 1991, and a copy of the Water Quality Control Commission Regulations.

Note that the completed and signed application form must be submitted with your discharge plan renewal request.

If you no longer have any actual or potential discharges a discharge plan renewal is not needed, please notify this office. If you have any questions, please do not hesitate to contact Kathy Brown at (505) 827-5884.

Sincerely,

Roger C. Anderson
Environmental Bureau Chief

RCA/kmb

Enclosures

xc: OCD Hobbs Office

ROWLAND TRUCKING COMPANY

A DIVISION OF

EUNICE RENTAL TOOL COMPANY

PHONE
(505) 397-4994

418 SOUTH GRIMES

HOBBS, NEW MEXICO 88240

PHONE
(505) 393-9023

August 9, 1991

Ms. Kathy Brown
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504

Re: Brine Well Workover - Truckers II
Section 33, Township 18S, Range 38E
Lea County, New Mexico

Dear Ms. Brown:

You will find enclosed copies or originals of the following:

(1) Form C-103 Subsequent Report of Remedial Work
(2) 2-page Daily Progress Report of Workover
(3) Original and copy of Casing Integrity Test at 500# for 30 minutes witnessed by Eddie Seay, N.M.O.C.D.

This information is for your files. If we can be of further assistance, please call.

Thank you,

ROWLAND TRUCKING COMPANY

Pete M. Turner
Manager

PMT/dm

Submit 3 Copies to Appropriate District Office

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO. CONSERVATION DIVISION RECEIVED

5. Indicate Type of Lease STATE [X] FEE [ ]

'91 AUG 1 P1

6. State Oil & Gas Lease No.
Salt Mining Lease

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
Truckers Water Company
Unichem International

1. Type of Well:
OIL WELL [ ] GAS WELL [ ] OTHER Brine well

2. Name of Operator
Unichem International aka Truckers Water Company

8. Well No.
2

3. Address of Operator
418 S. Grimes, Hobbs, New Mexico 88240

9. Pool name or Wildcat

4. Well Location
Unit Letter k : 1980 Feet From The south Line and 1980 Feet From The west Line

Section 33 Township 18S Range 38E NMPM Lea County

10. Elevation *(Show whether DF, RKB, RT, GR, etc.)*
3637 GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	[ ]	PLUG AND ABANDON	[ ]	REMEDIAL WORK	[X]	ALTERING CASING	[ ]
TEMPORARILY ABANDON	[ ]	CHANGE PLANS	[ ]	COMMENCE DRILLING OPNS.	[ ]	PLUG AND ABANDONMENT	[ ]
PULL OR ALTER CASING	[ ]			CASING TEST AND CEMENT JOB	[ ]		
OTHER:	[ ]			OTHER: Casing Integrity Test 7-26-91	[XX]		

12. Describe Proposed or Completed Operations *(Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work)* SEE RULE 1103.

See Attached Sheets - 2 pages

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Pete M. Turner TITLE Manager, Rowland Trucking DATE August 8, 1991

TYPE OR PRINT NAME Pete M. Turner TELEPHONE NO (505)397-4994

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

TRUCKERS #2 WELL FILE

7-24-91 Rigged up DA&S and pull 2 3/8" tubing. Pulled 63 joints and a piece - 2,011'. Left 86' in the well. Ran an impression block back in the well on the end of the tubing and pulled back out. 5 1/2 " casing parted at 1,916' and at 2,026'. Shut down for the day.

7-25/91 Picked up overshot and 2 7/8" work string and went in the hole. Could not get to the tubing. Pulled back out of the hole and went back in the hole with an impression block. Pulled back out of the hole and looked at impression block. Go back in the hole with drill collars and 4 1/4" swedge. Swedged casing out about 4' at 2,026'. Pulled out of the hole and laid down the 4 1/4" swedge and picked up 4 3/4" swedge. Swedged casing out to same spot - 2,026'. Pulled out of the hole and shut down.

7-26-91 Go in the hole with 4 1/2" impression block. When to 2,165' and hit something. This is 139' past where we were at 2,026. Pulled out of the hole. Tubing was dragging coming out. Had 6 badly bent joints of tubing. Go back in the hole to 1,868' with a packer and tested the casing to 500# for 30 minutes. Lost 30# in that time frame. Pulled out of the hole with the packer and 2 7/8" tubing. Laid all the 2 7/8" tubing down. Laid collars down and started back in the hole with the 2 3/8" tubing. Shut down for the day.

7-27-91 Finished going in the hole and started drilling with 4 1/2" blade bit with cutright on it. Drilled 4' and bit torqued up. Could go in the hole, but could not turn the tubing. Pulled out of the hole - had 2 joints of bent pipe. Shut down for the day.

7-28-91 Shut down.

7-29-91 Picked up 2 7/8" tubing and tapered mill. Went in the hole and started to mill at 2,021'. Milled to 2,051'. Worked tapered mill in and out of the casing or tight spot with tubing turning. Stopped turning tubing and went down about 15' to 20'. No trouble going down, but could not turn the tubing. Pulled out of the hole. The bottom 2 joints were bent. Shut down for the day.

7-30-91 Ran all the 2 3/8" tubing in the hole out of the derrick and came out laying it down on the rack. Put 4 1/2" bit on 2 7/8" tubing and went in the hole to 2,026' and started drilling. Drilled to 2,116' and shut down for the day.

7-31-91 Bleed pressure off tubing and started up reverse pump. No problems. Kicked swivel in - no torque on tubing. Started drilling. Drilled to 2,141' and shut down to make a connection, could not - had pressure on tubing. Back flowed well for 4 1/2 hours. Sent crew home and continued to back flow well. Checked well at 4:00 pm - still flowing. Checked well at 8:00 pm - had stopped flowing.

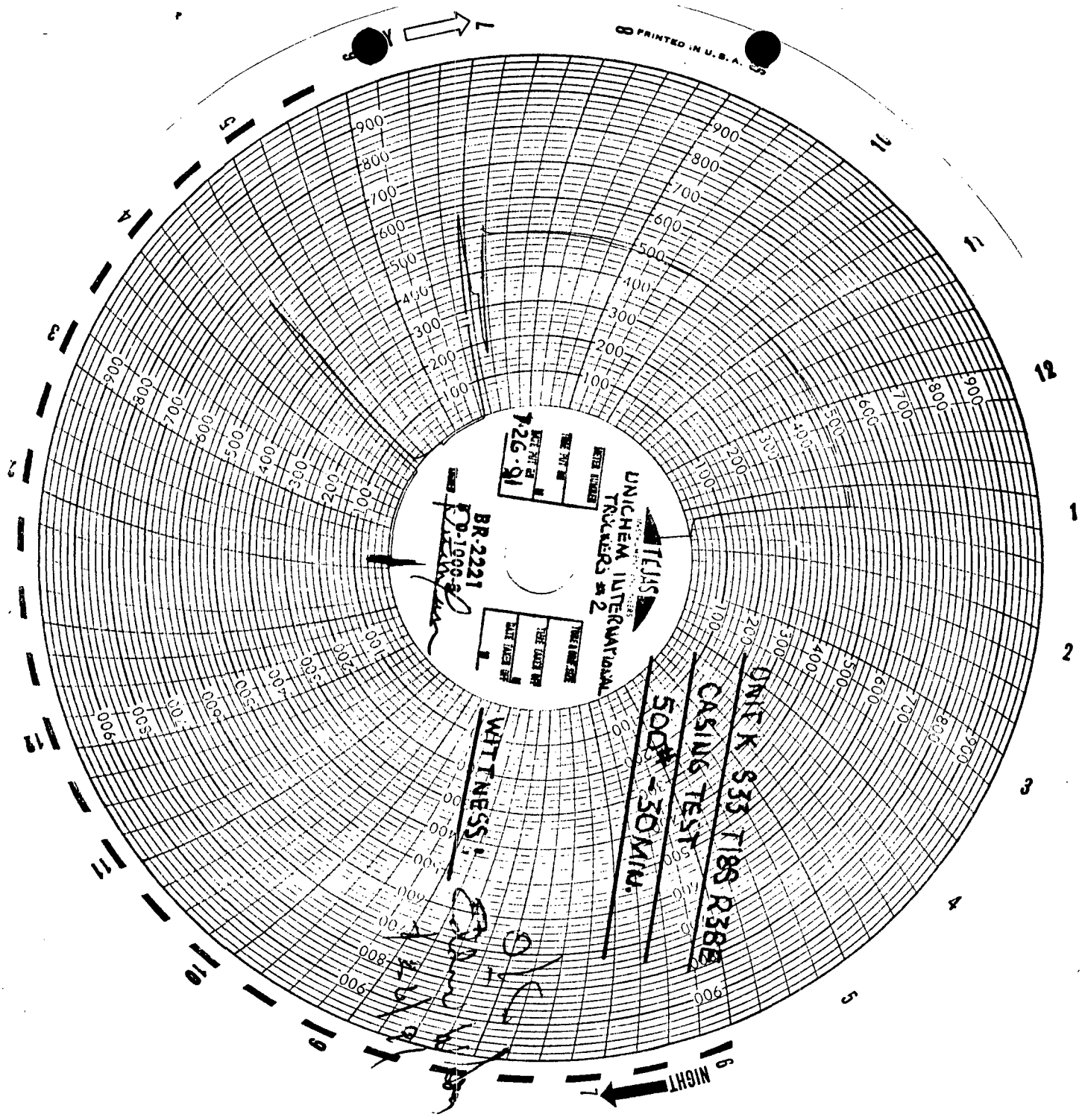
8-01-91 Picked up a joint of tubing and started to drill. Drilled down to 2,173.9'. There is 71 joints of 2 7/8" tubing and a 4 1/2" bit in the well. Release all equipment.

The well has 345' of 9 5/8" surface casing. The well was drilled to 3,175' and plugged back to 2,935'. It was then perforated at 2,060' to 2,070' with 20 holes and 2,400' to 2,410' with 20 holes. There was a packer set at 2,100' (Baker Loc Set).

The tubing and casing was knocked loose at 1,915' and 2,026', that is known. No trouble to go through the spot at 1,916'. Had trouble at 2,026' getting out of casing.

Submitted by Bruce Baird
August 2, 1991

dm



OIL CONSERVATION DIVISION
RECEIVED
'91 AUG 12 PM 1 30

TEJAS
INSTRUMENT ENGINEERS
UNICHEM INTERNATIONAL
TRUCKERS #2
METER NUMBER
TIME PUT ON
DATE PUT ON
16-26-91
TIME & CHART SIZE
TIME TAKEN OFF
DATE TAKEN OFF
BR-2221
D-1000-B
UNIT K S33 T18S R36E
CASING TEST
500# - 30MIN.
WITNESS
PRINTED IN U.S.A.
DAY
NIGHT

PART V QUESTIONS AND ANSWERS

Truckers #2 Brine Station
Submittal #2 - September 17, 1987

The following information is submitted for review in response to Part 5, Water Quality Control--Underground Injection Control:

5-100 REGULATIONS FOR EFFLUENT DISPOSAL AND IN SITU EXTRACTION WELLS:

Noted for in situ extraction wells.

5-101 DISCHARGE PLAN AND OTHER REQUIREMENTS:

A. Noted for in situ extraction wells.

B. (1) Noted for in situ extraction wells.

(2) Noted for in situ extraction wells.

(3) Noted for in situ extraction wells.

C. (1) Not applicable. ok

(2) If deemed necessary by the Environmental Improvement Division, Unichem International will utilize state of the art techniques in compliance with recommendations from the EID in order to restore any ground water damage caused by its operation under this discharge plan. ok

D. Not applicable. ok

E. Noted for in situ extraction wells.

F. Not applicable. ok

G. Noted for in situ extraction wells.

H. The Discharge Plan Signatory Requirement is set forth in Exhibit #10.

no "certification" change from OCD to EID

I. Not applicable. ok

J. Noted for in situ extraction wells.

5-102 PRE-CONSTRUCTION REQUIREMENTS:

Not applicable for permit renewal. Please refer to Exhibit #1 for a copy of the existing permit and documentation that is on file. ok

PART V QUESTIONS AND ANSWERS
(Continuation)

Truckers #2 Brine Station

5-103 DESIGNATED AQUIFERS:

Not applicable.

5-104 WAIVER OF REQUIREMENT BY DIRECTOR:

Not applicable.

5-105 AUTHORITY:

Noted for in situ extraction wells.

5-200 TECHNICAL CRITERIA AND PERFORMANCE STANDARDS FOR EFFLUENT DISPOSAL WELLS AND IN SITU EXTRACTION WELLS:

Noted for in situ extraction wells.

5-201 PURPOSE:

Noted for in situ extraction wells.

5-202 AREA OF REVIEW:

The area of review for this brine station has been determined as a 1/4-mile radius area from the wellhead. More detailed information will be provided in response to Section 5-210.B.

5-203 CORRECTIVE ACTION:

A. At the present time there are 11 known wells penetrating the injection zone in the area of review. These wells have been reviewed and are listed in Sections 5-210.2 and 5-210.3. According to the public records located on file at the Oil Conservation Division in Hobbs, New Mexico, each of the 11 wells has been reviewed and requires no corrective action.

B. Noted for in situ extraction wells.

C. (1) Noted for in situ extraction wells.

(2) Noted for in situ extraction wells.

(3) Noted for in situ extraction wells.

(4) Noted for in situ extraction wells.

(5) Noted for in situ extraction wells.

(6) Noted for in situ extraction wells.

(7) Noted for in situ extraction wells.

D. Noted for in situ extraction wells.

5-204 MECHANICAL INTEGRITY:

For a response to items A through D, please refer to the most recent mechanical integrity test performed, as shown in Exhibit #2.

5-205 CONSTRUCTION REQUIREMENTS:

All of the requirements set forth in this section have been included in the original OCD submittal contained in Exhibit #1.

5-206 OPERATING REQUIREMENTS:

A. (1) A maximum pressure of 450 psig at the wellhead has been used without any adverse effect on the formation.

(2) This statement has been duly noted and compliance is herein agreed to.

B. Not applicable.

C. (1) This statement has been duly noted and compliance is herein agreed to.

(2) This statement has been duly noted and compliance is herein agreed to.

5-207 MONITORING REQUIREMENTS:

A. Requirement noted and complied with. Please refer to the mechanical integrity test in Exhibit #2.

B. Not applicable.

C. (1) This requirement is agreed to--please note that our injected fluid is fresh water obtained from the City of Hobbs.

(2a) Items i and ii: Fluid volumes (fresh and brine) are metered and recorded daily by an automated electronic key system.

(2b) Items i and ii: Not applicable.

(2c) Unichem is aware of this requirement and agrees to comply as deemed necessary by the EID.

PART V QUESTIONS AND ANSWERS
(Continuation)

Truckers #2 Brine Station

(3) Not applicable. ok

5-208 REPORTING REQUIREMENTS:

A. Not applicable. ok

B. (1) Unichem International agrees to notify the New Mexico EID in the event of any leachate excursion and will provide subsequent reports necessary to explain any potential problem.

(2a) This statement has been duly noted and compliance is agreed to.

(2b) This statement has been duly noted and compliance is agreed to.

ok (3) Not applicable.

C. (1 & 2) Requirement noted and complied with. Please refer to Exhibit #10.

5-209 PLUGGING AND ABANDONMENT:

* Unichem International will abide by all of the requirements set forth in Section 5-209 where applicable and will seek approval from the EID on this matter. Please refer to the Blanket Plugging Bond (Surety Bond) in Exhibit #3.

5-210 INFORMATION TO BE CONSIDERED BY THE DIRECTOR:

A. Noted for in situ extraction wells.

B. (1) The information required in Part III, Sections 3-106C (1-8) has been provided under the original discharge plan submitted to the OCD. This information is also contained in Exhibit #1.

* no scale, no ¼ mi. radius circle

(2) The applicable area of review is set forth in Exhibit #4. Please note that there are no known springs, mines, quarries, or surface bodies of water within the area of review. With respect to the general location of residential properties and roads, page three of the OCD discharge plan in Exhibit #1 includes a map of Hobbs and the area of review for reference purposes.

There are eight possible water wells within the area of review currently listed by the State Engineer's office.

PART V QUESTIONS AND ANSWERS
(Continuation)

Truckers #2 Brine Station

These wells are shown and marked with a highlighter in Exhibit #5. The eight wells listed are all domestic wells and within the city limits of Hobbs, New Mexico; therefore, due to city ordinance, the wells have probably been abandoned.

(3) Refer to Exhibit #6 for a complete tabulation of the data available on all wells within the area of review. These 11 wells are under jurisdiction of the New Mexico OCD and are subject to OCD testing requirements. The required annual testing procedure includes a Bradenhead test, while a mechanical integrity test is performed every three years--the test records are available upon request.

(4) Noted for in situ extraction wells.

(5) Important fresh water (sands) appears to go to a depth of 200', with the primary ground water being the ogalalla aquifer found as shallow as 60'in the area of review.

Any potential usage ground water between 200' and the injection zone of 2,000' has not been identified at this time. Ground water in this area generally flows down-gradient from NW to SE. A map and cross-section can be provided if deemed necessary.

(6) There are no known faults, nor are any suggested from the investigation. Again, a map and cross-section can be provided if deemed necessary. The geological structure can be interpreted from the various well logs on file and listed in Exhibit #6.

(7) Generalized maps and cross-sections illustrating the regional geologic setting can be provided to the New Mexico EID upon request.

(8a) The average injected fluid is 745 bbl/day over a six-year time span. The maximum injected fluid rate possible is 128 bbl/hour or 3,072 bbl/day, which represents the injection pump capability. Refer to Exhibit #9, which represents a summary of the injection volumes.

(8b) The average injection pressure varies from 275 psig to 400 psig, with the maximum injection pressure experienced to date being 450 psig. Refer to Exhibit #9.

(8c) The injection fluid is fresh water obtained from the City of

PART V QUESTIONS AND ANSWERS
(Continuation)

Truckers #2 Brine Station

Hobbs, New Mexico. Chemical analysis of the injection fluid utilized will be made available upon request.

(9) This requirement is duly noted and compliance is agreed to as deemed necessary.

(10) Generally, fresh water is pumped down the casing through perforations at approximately 2,060' and the water is then mixed in an underground cavern created by continual injection of fresh water. The brine is returned through the tubing at approximately 2,400' and pumped to the surface. The pressure increases when salt builds up at the perforations, resulting in blockage.

(11) A proposed stimulation program consists of reversing the flow in order to clear any salt blockage.

(12) Actual injection procedures consist of pumping fresh water down the casing and producing brine out of the tubing, interspersed with short periods of reversal to clear lines of salt blockage.

(13) Please refer to page two of Exhibit #1, which is a surface plot plan; to page 4, which is a subsurface well schematic; and to Exhibit #6a, which details the well history.

(14) Not applicable, since this permit is for renewal and not for construction.

(15) The contingency plan for Truckers #2 Brine Station will include daily monitoring of the system. Should a potential problem occur, the system will be shut down and necessary repairs implemented in order to be in proper compliance.

It shall also include notification in accordance with the EID requirements, accompanied by restitution for any damaged ground water deemed to be the responsibility of Unichem International.

An additional aspect of the contingency plan shall consist of an updated plugging and abandonment procedure to include provision of all required bonds.

Unichem International will provide a more-detailed description of its contingency plan in accordance with Water Quality Control Commission guidelines at the request of the EID.

(16) This requirement is duly noted and compliance agreed to. Unichem International will submit additional material as

deemed necessary.

(17) This requirement is duly noted and compliance agreed to--please refer to Exhibit #3.

C. (1-7) Requirements noted and complied with in this submittal.

5-300 INJECTION WELL NOTIFICATION REQUIREMENT:

A. The requirement in this section is duly noted and the information indicated is currently on file with the EID.

B. This statement has been duly noted and compliance is agreed to.

Truckers # 2 Brine Station

5-101.H. DP-signatory lacks "certification"

5-203.A. "according to ...." insufficient need actual documents .... burden should be on applicant

5-205.4.b. Sometime within next 5 years we'll need a cement log / temp log during well workover.

5-206 A.1 need a comparison of frac press for salt at ____ ft and max operating press (450 psi) at ____ ft.

5-207.C.1 - send copy of City of Hobbs periodic analysis? - Public info or waive requirement?

5-208.C.1. - need letter duly authorizing Wayne Price.

5-209.A. need plugging and abandonment plan now.

5-210.B.5. need map showing area of review giving either scale or 1/4 mi. radius circle drawn in.

2-210.B.5. need maps showing vert & lateral limits of all groundwater having <10,000 mg/l TDS. (also need H_2O quality - 3-106.C.3)

B.6. need maps can provide reference

B.7. "

B.15. need detailed contingency plan

FILE REVIEW

Permit No. DD-371 Pass ____ Fail ____

Well Class 3X Reviewer: Parker

Operator Unichem Date: 10/26/87

Well Name Fowlkes #2 State: NM

Well Location Hobbs Agency: EID

Lease Name ____ Drill Date: ____

CONSTRUCTION

	size	depth	cement (sacks)	calculated interval
Surface csg.	9 5/8		200	
Intermediate csg	?	?	?	
Long string csg.	5 1/2"		1000	
Tubing				

Hole size 7 7/8

Is construction adequate? ____ yes ____ no

Packer required? X yes ____ no

Packer depth 2100'

Total Depth ____

HYDROLOGY

USDW Depth (10,000 mg/l) ____

Log Types? ____

Faults in area addressed? ____ yes ____ no

Chemical analysis, formation fluid included? X yes ____ no

Chemical analysis injected fluid included? X yes ____ no

Adequate confining layer? X yes ____ no

Permitted injection pressure ____

Permitted injection rate ____

Does pressure and rate exceed allowable? ____

Type of injectant ____

GENERAL INFORMATION

Plugging bond or financial assurance included? X yes ___ no

Public notice included? X yes ___ no

Hearing required? ___ yes X no

Citizen comments addressed? NA ___ yes ___ no

Workover, if yes put in general comments ___ yes ___ no

AREA OF REVIEW

Calculated _____ 1/4 mile X minimum State AOR _____

Wells in AOR: 11 injection _____ production _____ abandoned

Deficient wells: _____ construction _____ plugging

Wells receiving CA: 2 injection 6 production _____ abandoned

Were all wells addressed for CA? ___ yes ___ no

If no, comments: _____

AOR landowners notified? ___ yes ___ no

Has well received (pressure test) MIT? X yes ___ no

Date of most recent MIT 2/16/87 X pass ___ fail

Has absence of fluid movement been demonstrated? ___ yes X no

Enforcement actions included? ___ yes ___ no

If yes, comments: _____

Has well been a SNC? ___ yes X no

Is all information in permit? ___ yes ___ no

Is permit issued properly? _____ yes _____ no

Citizen comments and investigations? _____ yes _____ no

If yes, comments: _____

_____

_____

_____

PLUGGING AND ABANDONMENT

Properly Plugged? _____yes _____ no

Cement Placement Cement (sx)

_____ from _____ to _____

_____ from _____ to _____

_____ from _____ to _____

Required Placement from _____ to _____

from _____ to _____

from _____ to _____

from _____ to _____

_____

GENERAL COMMENTS

_____

_____

_____

_____

_____

_____

_____

Santa Fe

Submit 4 Copies
to Appropriate
District Office

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-134
Aug. 1, 1989

Permit No. H-6
(For Division Use Only)

APPLICATION FOR EXCEPTION TO DIVISION ORDER R-8952
FOR PROTECTION OF MIGRATORY BIRDS Rule 8(b), Rule 105(b), Rule 312(h), Rule 313, or Rule711(I)

Operator Name: Unichem International Inc.

Operator Address: 707 North Leech - Hobbs, NM 88240

Lease or Facility Name Truckers #2 Location ____ (Ut.) ____ (Ltr.) 33 (Sec.) 18S (Twp.) 38E (Rge)

Size of pit or tank: 137' X 137'

Operator requests exception from the requirement to screen, net or cover the pit or tank at the above-described facility.

X The pit or tank is not hazardous to migratory waterfowl. Describe completely the reason pit is non-hazardous.
This is a brine storage pit only.

1) If any oil or hydrocarbons should reach this facility give method and time required for removal:
Skim hydrocarbons off with vacuum trucks continuously until clean.

2) If any oil or hydrocarbons reach the above-described facility the operator is required to notify the appropriate District Office of the OCD with 24 hours.

____ Operator proposes the following alternate protective measures: ____

CERTIFICATION BY OPERATOR: I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature Richard Brakey Title Vice President Date August 15, 1989

Printed Name Richard Brakey Telephone No. (505) 393-7751

FOR OIL CONSERVATION DIVISION USE

Date Facility Inspected 8/18/89

Inspected by Eddie W Seay

Approved by ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

Title ____

Date AUG 23 1989

New Mexico Health & Environment Department

CARL A. MUTH
Secretary

MICHAEL J. BURKHART
Deputy Secretary

RICHARD WITZELFELT
Director

April 3, 1989

Wayne Price
Unichem International
P. O. Box 1499
Hobbs, NM 88240

Dear Mr. Price:

Thank you for your cooperation and assistance during our pressure test of Unichem #2 on March 7th.

This pressure test was performed in partial fullfillment of the mechanical integrity requirements found in Part 5-204 of the New Mexico Water Quality Control Commission Regulations. Results showed no leakage from Unichem #2.

If you have any questions, please feel free to call me at 827-0027.

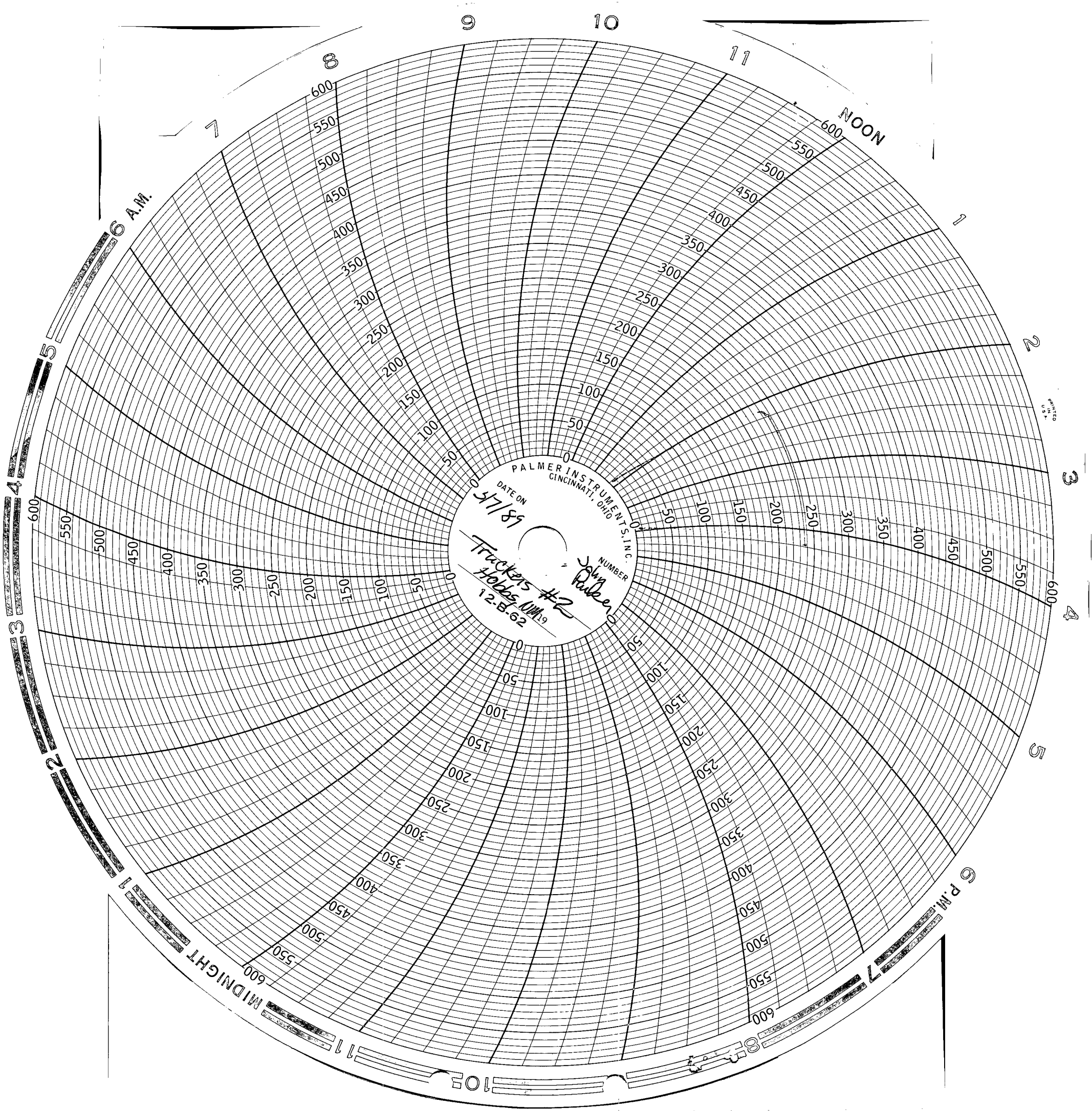
Sincerely,

John Parker

John Parker
Water Resource Specialist
Ground Water Section

JP/pr

— ENVIRONMENTAL IMPROVEMENT DIVISION —
Harold Runnels Building
1190 St. Francis Dr.
Santa Fe, New Mexico 87503


PALMER INSTRUMENTS, INC.
CINCINNATI, OHIO
DATE ON
5/7/85
NUMBER
John Ruben
Truckers #2
Hobbs NM
12-8-62
NOON
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NEW MEXICO
HEALTH AND ENVIRONMENT
DEPARTMENT

Post Office Box 968
Santa Fe, New Mexico 87504-0968

ENVIRONMENTAL IMPROVEMENT DIVISION

Michael J. Burkhart
Director

GARREY CARRUTHERS
Governor

CARLA L. MUTH
Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

July 19, 1988

James H. Brutton, President
Unichem International, Inc.
P.O. Box 1499
Hobbs, NM 88240

RE: Approval of DP-370 and DP-371

Dear Mr. Brutton:

Pursuant to the Settlement Agreement entered into by Unichem International, Inc. (Unichem) and the Environmental Improvement Division (EID) on February 24, 1988, as amended May 5, 1988, EID has reviewed all financial assurance materials submitted by Unichem, and hereby certifies that it has found these financial assurances to be adequate. This terminates Unichem's obligations under the Settlement Agreement.

The applications for renewal of discharge plans DP-370 and 371 for Trucker's #1 and Trucker's #2 respectively in Lea County, New Mexico are hereby approved. The approved discharge plan renewals consist of the materials dated September 17, and 22, 1987; December 22, 1987; March 17, 1988; May 5, 1988, May 17, 1988; June 6, 1988; June 29, 1988; June 30, 1988; and July 7, 1988, plus the information and materials submitted as part of the original discharge plan approved December 18, 1982.

The discharge plan renewal applications were submitted pursuant to Section 3-106 of the New Mexico Water Quality Control Commission Regulations. It is approved pursuant to Section 3-109. Please note Subsections 3-109.E. and 3-109.F., which provide for possible future amendment of the plan. Please be advised that the approval of this plan does not relieve you of liability should your operation result in actual pollution of surface or ground waters which may be actionable under other laws and/or regulations.

Monitoring and reporting shall be as specified in the discharge plan and supplements thereto. These requirements are summarized on the attached sheets. Any inadvertent omissions from this summary of a discharge plan monitoring or reporting requirement shall not relieve you of responsibility for compliance with that requirement.

Pursuant to Subsection 3-109.G.4., these plan renewals are for a period of five years. This approval will expire July 18, 1993, and you should submit an application for a new approval in ample time before that date.

On behalf of the staff of the Ground Water Section I wish to thank you for your cooperation during these discharge plan reviews.

Sincerely,

Michael Burkhart
Director

MB:JP:[redacted]

cc: Garrison McCaslin, EID District IV Manager, Roswell
Wayne Price, Unichem Staff Engineer
Gini Nelson, HED Office

send Wayne Copy

BRINE STATION INSPECTION FORM

DATE 12/1 1987 EID INSPECTOR Lambert/Parker
FACILITY Truckers #2 LOCATION Hobbs
FACILITY REP ON SITE Price, Turner Root COUNTY Lea

WELL OPERATION

WELL IS INJECTING: ✓ THROUGH ANNULUS ___ THROUGH TUBING
SOURCE OF FRESH WATER City of Hobbs
TRACE INJECTION/PRODUCTION LINES Buried

WELL HEAD PRESSURE ___ PSIG PUMP PRESSURE ___ PSIG
LEAKS AROUND WELL OR PUMP Fresh water prevents freezing No problem 270-300 PSI

STORAGE AREA

FOR PONDS:
GENERAL LINER APPEARANCE Good need general clean up, "weeds"
AMOUNT OF FREEBOARD > 2 ft
ANY SIGN OF OVERFLOW OR LEAKS None
LEAK DETECTION SYSTEM ✓ FLUIDS ___ DRY French Drain

FOR TANKS:
GENERAL APPEARANCE ___
LABLED PLAINLY ___ YES ___ NO
BERMED TO PREVENT RUNOFF ___ YES ___ NO
CHECK CONTENTS TO ASSURE PROPER FLUID/LABLE MATCH ___

NUMBER OF TANKS FOR BRINE ___ FRESH WATER ___

LOADING AREA

PROPERLY GRADED AND BERMED TO CONTAIN SPILLAGE	✓ YES	___ NO
ANY EVIDENCE OF RECENT SPILLAGE	___ YES	✓ NO
DOES FACILITY HAVE A SPILL COLLECTION SYSTEM	✓ YES	___ NO
ANY EVIDENCE OF OIL SPILLING/DUMPING	✓ YES	___ NO

looking to install oil separator in future

MONITORING WELLS

DEPTH ___ FT STATIC WATER LEVEL ___ FT BELOW CASING
SAMPLED THIS VISIT ___ YES ✓ NO TEMP ___ Ec ___
leak detection system French drain

COMMENTS Need to look at impgaving bermying around loading area and clean up oil spillage

UNICHEM
INTERNATIONAL

Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

December 22, 1987 **VIA FEDERAL EXPRESS: Airbill #3287718803**

John Parker, Water Resource Specialist
Ground Water Section
State of New Mexico
Environmental Improvement Division
P.O. Box 968, Runnels Building
Santa Fe, NM 87504-0968

SUBJECT: Truckers #2 Brine Station - Hobbs, New Mexico
Discharge Plan Submittal #4

Dear Mr. Parker:

The information contained herein is provided in response to your verbal request of 21 December for clarification regarding Comment No. 7 as addressed in Unichem's Discharge Plan Submittal #3 of December 15, 1987.

Comment No. 7:

Unichem International needs to submit a plugging and abandonment plan for our review. This plan should also include decommissioning of surface facilities. Copies of the blanket plugging/surety bonds submitted for Truckers #1 and #2 (Exhibits 6 and 3 respectively) have been forwarded to our Legal Bureau for review. Please submit documentation that demonstrates the $50,000 sum of each bond is adequate to properly plug and abandon the brine wells (5-209.A.).

Clarification regarding Response of December 11, 1987:

Plugging and Abandonment Plan: A bridge plug will be set at the top of the salt formation and 200' of cement will be poured into the well casing, constituting a 200' plug to begin at the top of the salt formation (approximately 1,950' above sea level) and to extend upward approximately 200'.

Another bridge plug will be set approximately 50' below the Ogallala formation (approximately 3,375' above sea level), to extend upward to the surface of the

well casing. This plug will have a minimum depth of 262'. A P&A marker will then be set at the surface, which represents an approximate ground level elevation of 3,637' above sea level. Please note that the elevation measurements provided herein were obtained from the cross section geology map B - B' previously submitted in Exhibit #2-3 of Submittal #3.

Decommission of Surface Facilities: The surface facilities will be removed as outlined in the Detailed Estimate previously provided in our response to Comment No. 7, Submittal #3.

Documentation regarding Adequacy of Blanket Plugging/Surety Bond: Please note that the removal documentation provided in the Detailed Estimate referenced above also provides information demonstrating that the $50,000 Blanket Plugging/Surety Bond is adequate to cover the costs that would be incurred in the event that plugging and abandonment is required.

Unichem International is very interested in completing the process for obtaining a discharge plan permit for Truckers #2. Therefore, if any additional information for permitting is required, please contact me immediately so that we can take the necessary action to comply.

Sincerely,

UNICHEM INTERNATIONAL INC.

Wayne Price
Staff Engineer

LWP:mms

NEW MEXICO
HEALTH AND ENVIRONMENT
DEPARTMENT

Post Office Box 968
Santa Fe, New Mexico 87504-0968

ENVIRONMENTAL IMPROVEMENT DIVISION

Michael J. Burkhart
Director

GARREY CARRUTHERS
Governor

LARRY GORDON
Secretary

CARLA L. MUTH
Deputy Secretary

November 2, 1987

Wayne Price
Unichem International
P.O. Box 1499
Hobbs, NM 88240

Dear Mr. Price:

The Environmental Improvement Division (EID) Ground Water Section has completed review of Unichem International's September 17 and 22, 1987 submittals for renewal of discharge plan numbers 370 and 371 respectively. The comments and additional information requested herein apply to both facilities unless designated otherwise. As correctly stated in your cover letters to the previously referenced submittals, the focus of our review for both brine well renewals is on conformance to Part V of the Water Quality Control Commission (WQCC) Regulations.

Comments and informational requests are itemized as follows (WQCC regulatory reference follows in parenthesis):

1. The Discharge Plan Signatory Requirement (Exhibit 11) lacks the certification: "I certify under penalty of law ..." which should precede signature. (5-101.H.2).

2. The number of water wells within the area of review, and the status of these wells is difficult to determine for the Truckers #1 Brine Station. There appears to be more than two wells listed in Exhibit 8, however the penciled-in legend at the top of the page states that the two wells are listed twice, even though the location for at least one of the wells listed is different. Please clarify (5-203.A).

3. In order to determine existence of possible conduits for fluid movement, an integral aspect of the Part V MIT requirements, Unichem International must commit to performing a cement bond log at some point during the five year renewal period (5-204.B.2 and 5-205.A.4.b.).

4. Unichem International needs to make a commitment to notify this office "prior to commencement of drilling, cementing and casing, well logging mechanical integrity tests and any other well workover ..." (5-205.A.5).

5. Please provide a comparison of fracture pressure for salt at injection interval (approximately 2,100 feet) with the down-hole pressure resulting from the maximum operating pressure (300 psi for Truckers #1, 450 psi for Truckers #2) (5-206.A.1.).

6. Please provide a letter of authorization for Wayne Price so as to comply with report signatory requirements (5-208.C.1.).

7. Unichem International needs to submit a plugging and abandonment plan for our review. This plan should also include decommissioning of surface facilities. Copies of the blanket plugging/surety bonds submitted for Truckers #1 and #2 (Exhibits 6 and 3 respectively) have been forwarded to our Legal Bureau for review. Please submit documentation that demonstrates the $50,000 sum of each bond is adequate to properly plug and abandon the brine wells (5-209.A.).

8. Maps submitted for Truckers #1 and #2 depicting area of review lack reference scale. Please submit maps including scales and with the ¼ mile area of review drawn in (5-210.B.2.).

9. Please provide maps showing vertical and horizontal limits of all ground water having less than 10,000 mg/l TDS (5-210.B.5.). Also, we need water quality information for water-bearing formations penetrated by brine well (3-106.C.3.).

10. Please provide generalized and specific maps and cross-sections depicting both the regional and site-specific geology (5-210.B.6 and 7).

11. Please provide a detailed contingency plan which at a minimum address: surface spills of brine and loss of mechanical integrity in the injection well (5.210.B.15).

12. The chemical analysis of samples taken from the Trucker #2 monitor sump (Exhibit 7) indicates an exceedance of the 3-103 standards for magnesium, chloride and TDS. Please explain what has caused the violation of the standards and what plans you have to prevent further contamination.

Should you have any questions, please feel free to contact Mr. Kevin Lambert (827-2902) or myself (827-0027).

Sincerely,

John W Parker

John Parker
Water Resource Specialist
Ground Water Section

JP:egr

cc: Garrison McCaslin, EID District IV Manager, Roswell
Roelf Ruffner, EID Field Office, Hobbs

NEW MEXICO
HEALTH AND ENVIRONMENT
DEPARTMENT

Post Office Box 968
Santa Fe, New Mexico 87504-0968

ENVIRONMENTAL IMPROVEMENT DIVISION

Michael J. Burkhart
Director

GARREY CARRUTHERS
Governor

LARRY GORDON
Secretary

CARLA L. MUTH
Deputy Secretary

MEMORANDUM

TO: Louis Rose, HED Office of General Counsel

FROM: John Parker, Ground Water Section

SUBJ: Review of Blanket Plugging Bonds for Brine Wells

DATE: October 30, 1987

The Ground Water Section's Underground Injection Control (UIC) program is working on discharge plan renewal for the first two of eight brine well facilities due to expire in 1987. All eight facilities were initially permitted by the Oil Conservation Division (OCD) and now must comply with the requirements of Part V of the WQCC regulations. Renewals conducted by former UIC staffers involved substantail changes to the terms of the bond (see attached September 17, 1985 correspondence from Page Morgan). However, my reading of 5-210.B.17 is that the existing bonds posted to the OCD are at least in that respect adequate.

JP:egr

Attachment

NEW MEXICO
HEALTH AND ENVIRONMENT
DEPARTMENT

Post Office Box 968
Santa Fe, New Mexico 87504-0968

ENVIRONMENTAL IMPROVEMENT DIVISION

Michael J. Burkhart
Director

GARREY CARRUTHERS
Governor

LARRY GORDON
Secretary

CARLA L. MUTH
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

October 7, 1987

Truckers #2 Brine Station
Wayne Price, Engineer
Unichem International
707 North Leech
P.O. Box 1499
Hobbs, New Mexico 88240

Dear Mr. Price:

Enclosed is a copy of the public notice pertaining to your proposed discharge which was issued by this division pursuant to New Mexico Water Quality Control Commission Regulations, Section 3-108.

If you have any questions, please do not hesitate to contact me at the address listed above or at phone number (505) 827-2900.

Sincerely,

Ernest C. Rebuck
Program Manager
Ground Water Section

ECR/mp

Enclosure

P 484 024 923

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to	Truckers #2 Brine Station
Street and No.	Wayne Price, Engineer
P.O., State and ZIP Code	Unichem International
	707 North Leech
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	

P.O. Box 1499
Hobbs, New Mexico 88240

PS Form 3800, June 1985

U.S.G.P.O. 153-503

NEW MEXICO
HEALTH AND ENVIRONMENT
DEPARTMENT

Post Office Box 968
Santa Fe, New Mexico 87504-0968

ENVIRONMENTAL IMPROVEMENT DIVISION

Michael J. Burkhart
Director

GARREY CARRUTHERS
Governor

LARRY GORDON
Secretary

CARLA L. MUTH
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

October 7, 1987

The Honorable JoAnn Martin, Mayor
City of Hobbs
P.O. Box 1117
Hobbs, New Mexico 88240

Dear Mayor Martin:

Enclosed is a public notice which includes notice of a proposed discharge plan(s) for one or more operations in or near your city.

If you have any questions, please do not hesitate to contact me at the address given above or at 827-2900.

Sincerely,

Ernest C. Rebuck
Program Manager
Ground Water Section

ECR/mp

Enclosure

P-484 024 929

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to JoAnn Martin, Mayor	
Street and No. City of Hobbs	
P.O. State and ZIP Code P.O. Box 1117	
Hobbs, New Mexico	88240
Certified Fee	
Special Delivery Fee	

U.S.G.P.O. 153-506

NEW MEXICO
HEALTH AND ENVIRONMENT
DEPARTMENT

Post Office Box 968
Santa Fe, New Mexico 87504-0968

ENVIRONMENTAL IMPROVEMENT DIVISION

Michael J. Burkhart
Director

GARREY CARRUTHERS
Governor

LARRY GORDON
Secretary

CARLA L. MUTH
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

October 7, 1987

Board of County Commissioners
Lea County Courthouse
215 East Central
Lovington, New Mexico 88260

Board of County Commissioners:

Enclosed is a public notice for one or more operations located in your county.

If you have any questions, please do not hesitate to contact me at the address listed above or at phone number (505) 827-2900.

Sincerely,

Ernest C. Rebuck
Program Manager
Ground Water Section

ECR/mp

Enclosure

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

U.S.G.P.O. 153-506

Sent to Board of County Commissioners	
Street and No. Lea County Courthouse	
P.O. State and ZIP Code 215 East Central	
Lovington, New Mexico 88260	
Certified Fee	
Special Delivery Fee	

(DP-222) TAOS PHOTOGRAPHIC LABORATORY, J. Gordon Adams, Owner, P.O. Box 2446, Taos, New Mexico 87571, proposes to renew previously approved discharge plan (DP-222) which allows for the discharge of 1400 gallons per day of photographic processing washwater onto 2 acres of land and an intermittent flow of processing solutions into a fiberglass holding tank to be periodically emptied by a commercial service. The discharge site is located 1.4 miles west of Taos in Section 18, T25N, R13E, Taos County, New Mexico. Groundwater below the site is at a depth of 3 feet and has a total dissolved solids concentration of 305 mg/l.

(DP-232) TAOS, TOWN OF, The Honorable Lawrence A. Santistevan, Mayor, P.O. Drawer M, Taos, New Mexico 87571, proposes to modify the public notice published on or before April 10, 1987. The modification consists of changing the sludge application site to 32 acres adjacent to the previously used site to the south and southwest.

(DP-370) TRUCKERS #1 BRINE STATION, Wayne Price, Engineer, Unichem International, 707 North Leech, P.O. Box 1499, Hobbs, New Mexico 88240, proposes to renew their approved discharge plan (DP-370) for a brine water in situ extraction well and surface facility located at Section 1, T19S, R35E, Lea County, New Mexico. The operation involves injection of fresh water into an underlying salt formation thereby dissolving the salt and forming a brine water solution which is then extracted via a production well and used for oil and gas production. The groundwater below the site is at a depth of 70 feet and has a total dissolved solids concentration of approximately 500 mg/l.

(DP-371) TRUCKERS #2 BRINE STATION, Wayne Price, Engineer, Unichem International, 707 North Leech, P.O. Box 1499, Hobbs, New Mexico 88240, proposes to renew their approved discharge plan (DP-371) for a brine water in situ extraction well and surface facility located at Section 33, T18S, R38E, Lea County, New Mexico. The operation involves injection of fresh water into an underlying salt formation thereby dissolving the salt and forming a brine water solution which is then extracted via a production well and used for oil and gas production. The groundwater below the site is at a depth of 60 feet and has a total dissolved solids concentration of approximately 500 mg/l.

Any interested person may obtain further information from the Ground Water Section, Ground Water Bureau, EID, and may submit written comments to the Director of the EID at the address given above. Prior to ruling on any proposed discharge plan or its modification, the Director of EID will allow thirty (30) days after the date of publication of this Notice during which comments may be submitted to him and a public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why the hearing should be held. A hearing will be held if the Director determines that there is significant public interest.

OCTOBER 5, 1987

TO BE PUBLISHED ON OR BEFORE OCTOBER 14, 1987

PUBLIC NOTICE
NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION

Notice is hereby given that, pursuant to New Mexico Water Quality Control Commission Regulations, the following proposed discharge plans have been submitted for approval to the Director of the New Mexico Environmental Improvement Division, P.O. Box 968, Santa Fe, New Mexico 87504-0968; telephone 827-2900.

(DP-520) ALBUQUERQUE UTILITIES CORPORATION, Mr. Raymond Lucero, 4300 Sara Road, Rio Rancho, New Mexico 87124, proposes to discharge 29,000 gallons per day of domestic and commercial sewage to a lined, aerated lagoon located at T12N, R2E, Section 11, Sandoval County. The treated sewage will then be land applied to 14 acres of undeveloped rangeland approximately 1 mile from the lagoon. The estimated total nitrogen content of the discharge is 32 mg/l. The depth to groundwater in this area is 625 feet with a total dissolved solids content of 250 mg/l.

(DP-471) KIT CARSON CHILE PROCESSING PLANT, Nick and Rena Carson, Owners, P.O. Box 101, Rincon, New Mexico 87940, propose to modify their previously approved discharge plan for the disposal of 35,000 gallons per day of chile wash water to five acres of cropland. The facility is located in the NE¼ of the SE¼ of Section 7, T19S, R2W, NMPM in Dona Ana County. The proposed modification requests that the groundwater monitoring frequency be reduced from biweekly during the months of September to January and monthly during the months of February to August to a frequency of three times per year (August, November and February). The groundwater most likely to be affected is at a depth of approximately 15 feet with a total dissolved solids content of approximately 4000 mg/l.

LAS CRUCES, THE CITY OF, D. Craig Andrews, Associate Director of Wastewater, P.O. Drawer CLC, Las Cruces, New Mexico 88004, proposes to renew the approved discharge plan for the disposal of digested municipal sludge. The current flowrate is 35,000 gallons per day with a 2% solids content. The design flowrate is 61,200 gpd at 4% solids. The sludge is land applied in T23S, R1W, Section 25, SE¼, NMPM in Dona Ana County. The groundwater most likely to be affected is at a depth of approximately 300 feet with a total dissolved solids content of approximately 700 mg/l.

(DP-519) LOVELACE I.T.R.I., J.J. Thompson, P.O. Box 5890, Albuquerque, New Mexico 87185, proposes to continue discharging approximately 35,000 gallons per day of liquid waste from their Biomedical Research Laboratory and Animal Housing facility to a system of six lagoons. This discharge consists of the following: kennel washwater (15%), cage washwater (15%), sewage from restrooms, lab sinks, and cafeteria (20%), mechanical (pump cooling and sealing) and boiler and cooling tower blowdown (50%). The discharge has between 60 and 90 mg/l Nitrate (as NO_3) and is located at T8N, R4E, Section 3 in Bernalillo County. The depth to groundwater in this area is approximately 60 feet with a total dissolved solids content of 870 mg/l.

UNICHEM
INTERNATIONAL

Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

February 27, 1987

VIA CERTIFIED MAIL: P169568906

Mr. Kevin A. Lambert, Hydrologist
Ground Water & Hazardous Waste Bureau
State of New Mexico
Environmental Improvement Division
P.O. Box 968, Runnels Building
Santa Fe, NM 87504-0968

Dear Kevin,

SUBJECT: TRUCKERS #2 BRINE STATION
BROADWAY PLACE - HOBBS, NEW MEXICO

Please find enclosed an integrity well test performed on our brine well located at Broadway Place in Hobbs. Please accept this as the first portion of our required application for a discharge plan under the new requirements to become effective in 1988.

For your information, we will be submitting a more-detailed plan for the brine well in the future. In the meantime, I believe that you should already have some information on hand from the Oil Conservation Division for Truckers #2. Would you please provide me with some sort of indication as the extent of the information that you do have available? This would greatly assist us in our efforts.

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

Sincerely,

UNICHEM INTERNATIONAL INC.

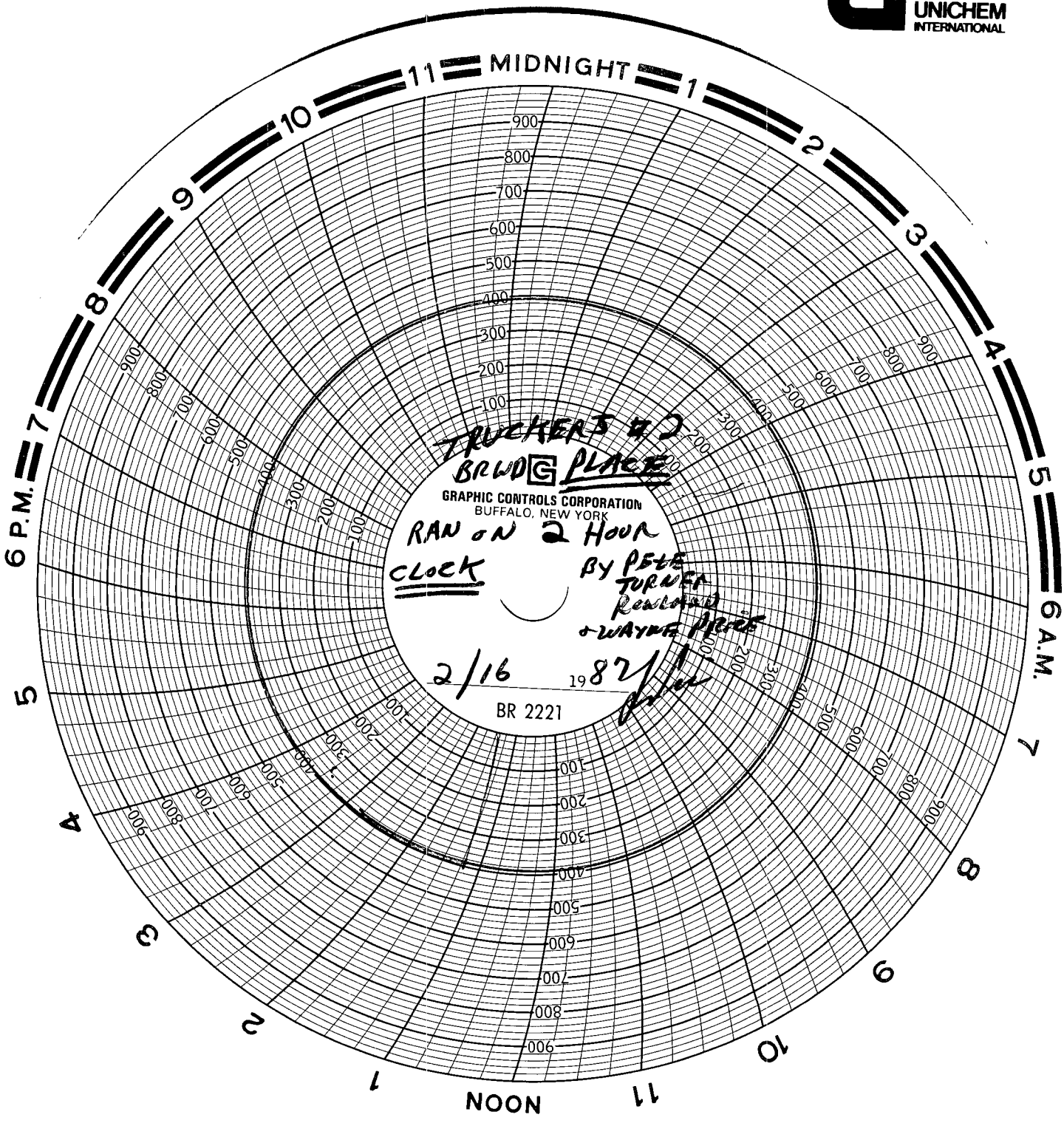
Wayne Price
Staff Engineer

WP:mms

Enclosure

cc: Richard Brakey

UNICHEM
INTERNATIONAL



MECHANICAL INTEGRITY TEST - FEBRUARY 16, 1987
TRUCKERS #2 BRINE STATION
BROADWAY PLACE - HOBBS, NEW MEXICO

BRINE STATION INSPECTION FORM

DATE 12/10 1986 EID INSPECTOR Lambert, Koschal [redacted] Baker
FACILITY Unichem Teuckers #2 LOCATION Hobbs
FACILITY REP ON SITE None COUNTY LEA

DP-371

WELL OPERATION

WELL IS INJECTING: __ THROUGH ANNULUS __ THROUGH TUBING
SOURCE OF FRESH WATER City of Hobbs water
TRACE INJECTION/PRODUCTION LINES Buried Lines

WELL HEAD PRESSURE _____ PSIG PUMP PRESSURE _____ PSIG
LEAKS AROUND WELL OR PUMP None

STORAGE AREA

FOR PONDS:
GENERAL LINER APPEARANCE Hypalon Lined Good Shape

AMOUNT OF FREEBOARD ~4 ft
ANY SIGN OF OVERFLOW OR LEAKS None
LEAK DETECTION SYSTEM __ FLUIDS __ DRY

FOR TANKS:
GENERAL APPEARANCE _____
LABLED PLAINLY __ YES __ NO
BERMED TO PREVENT RUNOFF __ YES __ NO
CHECK CONTENTS TO ASSURE PROPER FLUID/LABLE MATCH _____

NUMBER OF TANKS FOR BRINE _____ FRESH WATER _____

LOADING AREA

PROPERLY GRADED AND BERMED TO CONTAIN SPILLAGE	X YES	__ NO
ANY EVIDENCE OF RECENT SPILLAGE	X YES	__ NO Nothing major on collection pad
DOES FACILITY HAVE A SPILL COLLECTION SYSTEM	X YES	__ NO
ANY EVIDENCE OF OIL SPILLING/DUMPING	__ YES	X NO

MONITORING WELLS

DEPTH _____ FT STATIC WATER LEVEL _____ FT BELOW CASING
SAMPLED THIS VISIT __ YES __ NO TEMP _____ Ec _____

COMMENTS _____

No. of Samples	Ion
	Na
	K
	Ca
	Mg
	Cl
	HCO3
	CO3
	SO4
	TDS
////////	////////////
	NO3+ NO2
	NH3
	kjeld N
////////	////////////
	As
	Ba
	Cd
	CN
	Cr
	F
	Pb
	Hg
	Se
	Ag
	U
	V
	Ra 226
	Ra 228
////////	////////////
	Cu
	Fe
	Mn
	Phenols
	Zn
////////	////////////
	Al
	B
	Co
	Mo
	Ni
////////	////////////
	pH
	Conduct.

FIELD TRIP REPORT
GROUND WATER SECTION

SLD USER CODES

County Leq

Ground Water: 59300
NO_3, HC, & Toxics: 59600
UIC: 59500

FACILITY VISITED

Name of Facility: Chichem Trucked #2.

Location: Hobbs

Discharge Plan Number: DP-

Type of Operation: Brine Station

ENVIRONMENTAL IMPROVEMENT DIVISION FIELD VISIT

EID Inspector(s): Sawey/Baker

Date of Inspection or Visit: 6/17/86

Discharger's Representative Present During EID Visit:

Name: None

Title or Position:

Purpose of Visit:

a. Evaluation of Proposed Discharge Plan

b. Compliance Inspection of Discharge with Approved Plan ✓

c. Other (specify)

Inspection Activities During Field Visit:

a. Inspection of Facilities or Construction (specify)

—

b. Sampling of Effluents (give sampling locations)

—

c. Sampling of Ground Water (give names or locations of wells)

—

d. Evaluation of geology, soils, water levels or other physical characteristics of the location (specify)

—

e. Other (specify)

—

Observations and Information Obtained during the Visit:

Looks good on surface, Couldn't tell how well is injecting. Concrete drain Pad drains to sump. Check DP for construction. Liner looks in good shape

ACTION REQUIRED

UNICHEM INTERNATIONAL

Home Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

VIA CERTIFIED MAIL

December 2, 1985

Paige Grant Morgan
Water Resource Specialist
State of New Mexico
Environmental Improvement Division
P.O. Box 968
Santa Fe, New Mexico 87504-0968

RE: Unichem's Truckers Brine Well No. 2

Dear Paige:

Regarding your letter of November 14, 1985 to Richard Brakey, the surface inspection of Unichem's Truckers Brine Well No. 2 by the EID on that date showed the existence of oily waste on the surface near the sump. This contamination has now been removed, and we have made a point to adjust our maintenance schedule to prevent this from reforming.

Sincerely,

UNICHEM INTERNATIONAL INC.

Wayne Price
Staff Engineer

WP/sar

cc: Jim Britton
Richard Brakey
Charlie Root

HEALTH ENVIRONMENT department

STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION
P.O. Box 968, Santa Fe, New Mexico 87504-0968
(505) 984-0020

TONEY ANAYA
GOVERNOR

DENISE D. FORT
DIRECTOR

November 14, 1985

Richard Brakey
Unichem International
P.O. Box 1499
Hobbs, New Mexico 88240

Re: DP-371

Dear Mr. Brakey:

On a surface inspection of Unichem's Truckers Water Company Brine Well #2 on November 11, 1985, I noted that the sump intended to capture spillage during truck loading had overtopped, causing oily waste to flow onto the surface. Please remove the surface contamination as soon as possible and adjust your maintenance schedule so that the fluid level in the sump is checked often, so as to prevent a repetition of the problem. This request constitutes the EID's attempt to obtain your voluntary compliance with the New Mexico Water Quality Control Commission (WQCC) regulations at this facility.

You will soon be receiving a separate letter regarding serious violations of the state's ground water protection regulations at your Carlsbad brine facility.

Sincerely,

Paige Grant Morgan
Water Resource Specialist
Ground Water Section

PGM/mp

cc: Wayne Price, Unichem
John Guinn, EID District IV Manager

No. of Samples	Ion
	Na
	K
	Ca
	Mg
	Cl
	HCO3
	CO3
	SO4
	TDS
////////	////////
	NO3+ NO2
	NH3
	kjeld N
////////	////////
	As
	Ba
	Cd
	CN
	Cr
	F
	Pb
	Hg
	Se
	Ag
	U
	V
	Ra 226
	Ra 228
////////	////////
	Cu
	Fe
	Mn
	Phenols
	Zn
////////	////////
	Al
	B
	Co
	Mo
	Ni
////////	////////
	pH
	Conduct.

FIELD TRIP REPORT
GROUND WATER SECTION

SLD USER CODES

County *Lea*

Ground Water: 59300

NO_3, HC, & Toxics: 59600

UIC: 59500

FACILITY VISITED

Name of Facility: *Unichem Truckers #2 Brine Station*

Location: *west end of Broadway (past where Broadway swings south to join Marland), Hobbs*

Discharge Plan Number: DP- *371*

Type of Operation: *brine extraction well*

ENVIRONMENTAL IMPROVEMENT DIVISION FIELD VISIT

EID Inspector(s): *Morgan, Sares*

Date of Inspection or Visit: *11/11/85*

Discharger's Representative Present During EID Visit:

Name: *NONE*

Title or Position:

Purpose of Visit:

a. Evaluation of Proposed Discharge Plan _____

b. Compliance Inspection of Discharge with Approved Plan *x*

c. Other (specify) _____

Inspection Activities During Field Visit:

a. Inspection of Facilities or Construction (specify)

Took a look at general housekeeping of surface facilities, the valving of the wellhead for pattern of injection.

b. Sampling of Effluents (give sampling locations)

c. Sampling of Ground Water (give names or locations of wells)

d. Evaluation of geology, soils, water levels or other physical characteristics of the location (specify)

e. Other (specify)

Observations and Information Obtained during the Visit:

Spill collection sump had overflowed and spread oily waste over an area approx. 5' by 40'. Well was hooked up for injection of water down annulus (preferred pattern).

ACTION REQUIRED

Send letter to clean up sump.

NOTICE OF PUBLICATION

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

SANTA FE, NEW MEXICO

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following proposed discharge plan has been submitted for approval to the Director of the Oil Conservation Division, P. O. Box 2088, State Land Office Building, Santa Fe, New Mexico 87501, telephone (505) 827-3260.

UNICHEM INTERNATIONAL, P. O. Box 1499, Hobbs, New Mexico 88240, telephone (505) 393-7751, requests approval of their discharge plan for their four brine in situ extraction wells and facilities located in Section 3, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico; Section 33, Township 18 South, Range 38 East, NMPM, Lea County; Section 3, Township 22 South, Range 37 East, NMPM, Lea County; Section 36, Township 22 South, Range 26 East, NMPM, Eddy County, New Mexico. Unichem injects water down each injection well to an underlying salt formation thereby dissolving the salt to form a brine water solution with a total dissolved solids content of approximately 300,000 mg/L. Unichem extracts and sells the brine water solution to various companies for use in oil and gas production.

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. Prior to ruling on any proposed discharge plan or its modification, 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 a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

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

GIVEN Under the Seal of the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 12th day of November, 1982.

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION

JOE D. RAMEY

Director

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

December 18, 1982

Unichem International
P.O. Box 1499
Hobbs, New Mexico 88240

RE: GWB-10
Discharge Plan

Gentlemen:

The discharge plan submitted for the brine production facility and in situ extraction well located in Section 33, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico, is hereby approved.

The discharge plan was submitted pursuant to Section 3-106 of the Water Quality Control Commission regulations. It is approved pursuant to Section 109. Please note subsections 3-109.E and 3-109.F which provide for possible future amendment of the plan. Please also be advised that the approval of this plan does not relieve you of liability should your operation result in actual pollution of surface or ground waters which may be actionable under other laws and/or regulations.

Yours very truly,

JOE D. RAMEY
Director

JDR/OS/dp

cc: Hobbs District Office

UNICHEM
Truchers Water Co. #2
T 18 S R 38 E

BSW #10

UNICHEM
INTERNATIONAL

Home Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

September 20, 1982

OIL CONSERVATION DIVISION
DEC 9 1982
RECEIVED

Mr. Joe Ramey
Energy and Minerals Department
Oil Conservation Division

RE: Brine Well Discharge Plan
Truckers Water Co. Brine Well #2
Sec. 33-T18S-R38E
Lea County, New Mexico

Dear Sir:

Attached herewith, please find schematic drawings of our brine producing facility in the captioned location.

In explanation of the schematics, fresh water is pumped from the city line, down the 5 1/2" casing, through perforations at 2060 feet into the salt cavity at a pressure of 325#. Brine water is returned to the surface from the perforations at 2400, where it is stored in a plastic lined 11,000 barrel pit. The system is monitored functionally on a daily basis. Water quality is monitored as the need arises, and/or usually on a monthly basis. Quantity of production varies with demand. The demand over the past two years has been extremely large, and was metered at 370,000 barrels.

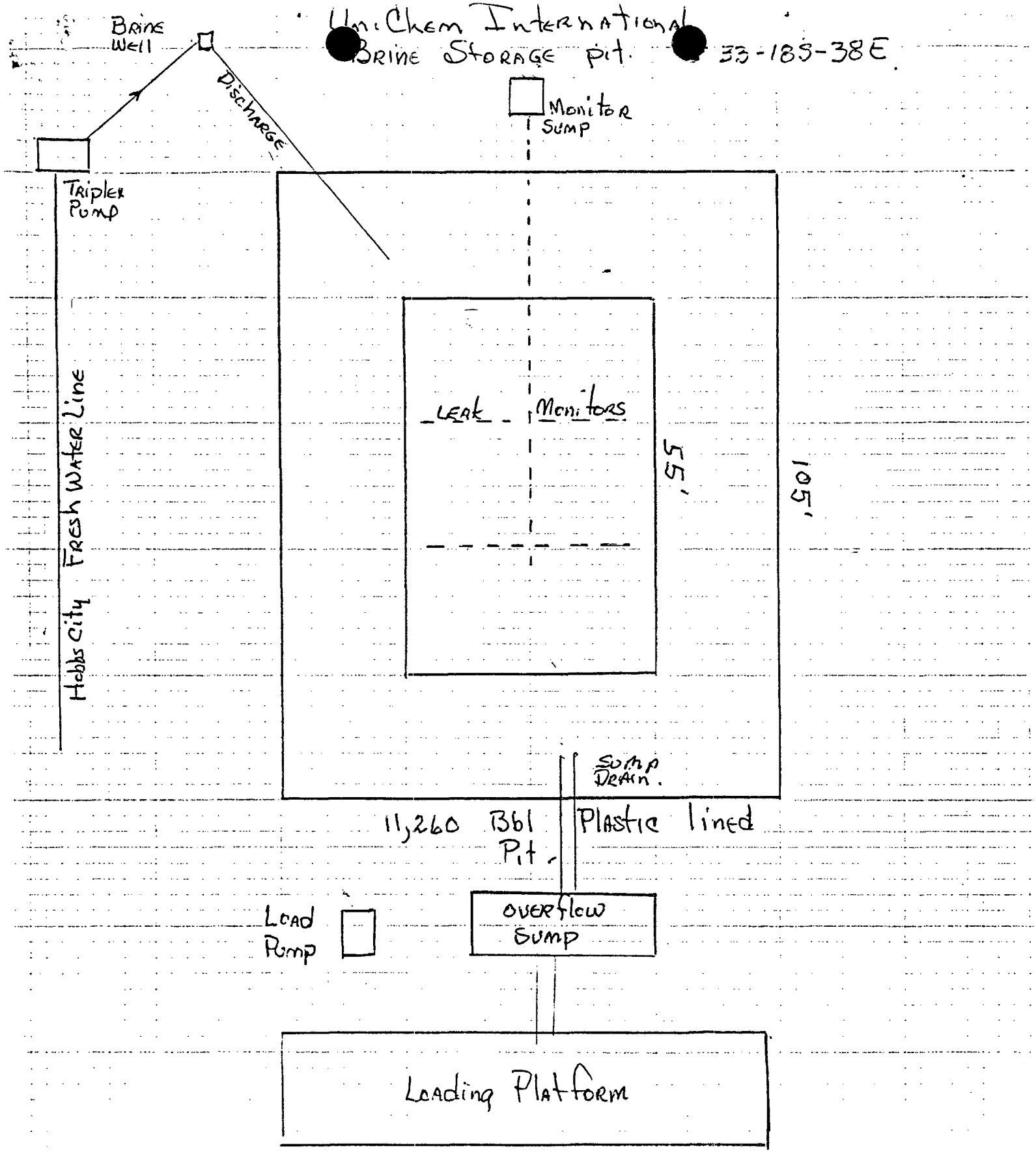
The surface storage facility was constructed in accordance to oil conservation commission specifications. The monitor sump is checked daily to insure against lining failure. The loading platform is designed to catch any overflow from trucks being loaded.

The ground water that could possibly be contaminated would be the ogalalla aquifer at an estimated 60 feet. To our knowledge there are no wells being produced from the aquifer in the immediate area. However, there are no doubt many wells that have been drilled to the ogalalla in the area that are no longer in use, and probably have never been suitably plugged.

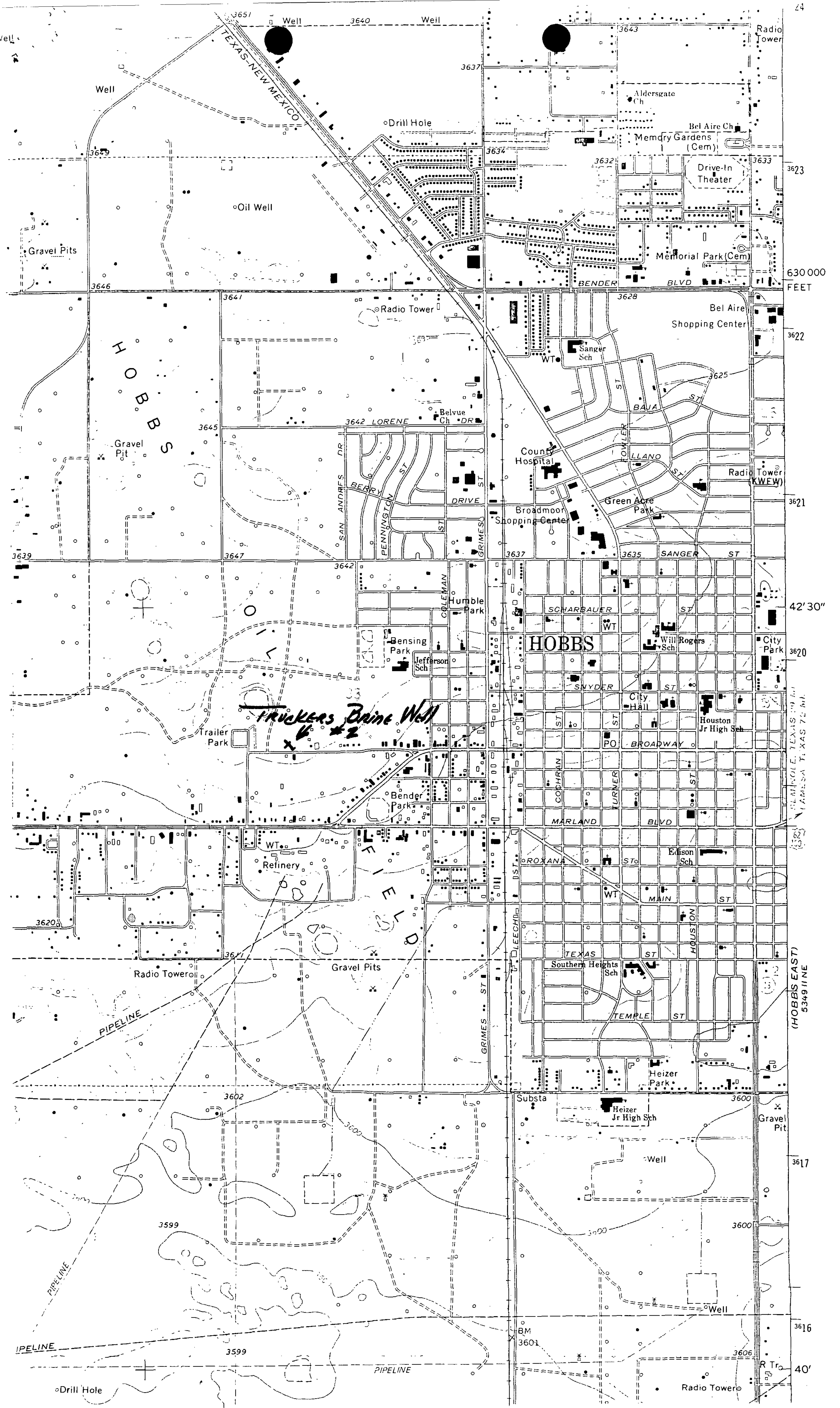
We trust this meets your requirements for a suitable discharge plan and meets with your approval.

Very truly yours,

UNICHEM INTERNATIONAL INC.



Pit prepared and inspected in accordance to New Mexico Oil Conservation Commission Specifications
Permit # LP-H-107



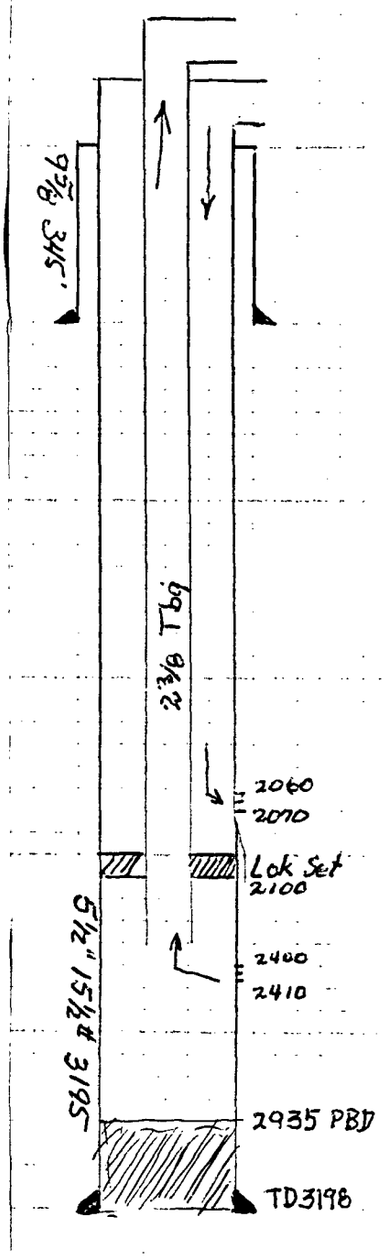
24
Well
3640
Well
3643
Radio Tower
TEXAS-NEW MEXICO
Aldersgate Ch
Drill Hole
Bel Aire Ch
Memory Gardens (Cem)
Drive-In Theater
Oil Well
Gravel Pits
Memorial Park (Cem)
630 000 FEET
BENDER BLVD
Radio Tower
Bel Aire Shopping Center
Sanger Sch
WT
BAJA ST
HOBBS OIL FIELD
Belvue Ch
LORENE DR
Gravel Pit
County Hospital
LLANO ST
FOWLER
Radio Tower (KWEW)
BERRY DRIVE
SAN ANDRES DR
PENNINGTON ST
GRIMES ST
Broadmoor Shopping Center
Green Acre Park
SANGER ST
COLEMAN
Humble Park
SCHARBAUER ST
42′30″
Bensing Park
HOBBS
Will Rogers Sch
City Park
Jefferson Sch
SNYDER ST
City Hall
Houston Jr High Sch
Truckers Brine Well #2
Trailer Park
PO
BROADWAY
COCHRAN ST
TURNER ST
Bender Park
MARLAND BLVD
WT
Refinery
ROXANA ST
Edison Sch
MAIN ST
LEECH ST
HOUSTON ST
TEXAS ST
Southern Heights Sch
Radio Tower
Gravel Pits
PIPELINE
TEMPLE ST
(HOBBS EAST) 5349 II NE
SEMINOLE, TEXAS 34 MI.
LAMESA, TEXAS 72 MI.
Heizer Park
Substa
Heizer Jr High Sch
Gravel Pit
Well
Well
BM 3601
PIPELINE
R Tr
40′
Drill Hole
Radio Tower

INJECTION WELL DATA SHEET

Uni Chem International — OPERATOR; Truckers Water Company — LEASE

# 2	Unit K	33	18S	38E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic



Tabular Data

Surface Casing

Size 9⅝" Cemented with 200 SX sx.

TOC CIRC. feet determined by _____

Hole size _____

~~Intermediate~~ Long Casing

Size 5½" 15.5#" Cemented with 1000 sx.

TOC CIRC - feet determined by _____

Hole size 7⅞

~~Long string~~

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Total depth _____

Injection interval

_____ feet to _____ feet

(perforated or open-hole, indicate which)

Drillers Log
0-30' Caliche
30-310 Red Bed + Snd.
310-1930 Anyhydrite + Sh.
1930-2045 Salt + Anyhydrite
2045-2430 Salt

Tubing size 2 3/8 lined with None (material) set in a

Baker Lok-set (brand and model) packer at 2100. feet.

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Salt
2. Name of Field or Pool (if applicable) Hobbs
3. Is this a new well drilled for injection? ☐ Yes ☒ No

   If no, for what purpose was the well originally drilled? Oil Well Bowers Snd
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No

   Plugged back to 2935 and Abandoned by Continental O.C.
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

UNICHEM INTERNATIONAL

601 NORTH LEECH P.O.BOX1499

HOBBS, NEW MEXICO 88240

COMPANY : ROWLAND TRUCKING
DATE : 3-26-82
FIELD,LEASE&WELL : TRUCKERS #2 BRINE
SAMPLING POINT: SALT WATER WELL
DATE SAMPLED : 3-24-82

SPECIFIC GRAVITY = 1.206
TOTAL DISSOLVED SOLIDS = 304165
PH = 6.92

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	93.3	1870.
MAGNESIUM	(MG)+2	46.6	567.
SODIUM	(NA).CALC.	5057.	116264.
ANIONS			
BICARBONATE	(HCO3)-1	2.8	170.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	90.2	4335.
CHLORIDES	(CL)-1	5104.	180959.
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		1.5
BARIUM	(BA)+2	NOT RUN	
MANGANESE	(MN)	NOT RUN	

SCALING INDEX	TEMP
	30C 86F
CARBONATE INDEX	-2.1
CALCIUM CARBONATE SCALING	UNLIKELY
SULFATE INDEX	-.02
CALCIUM SULFATE SCALING	UNLIKELY

WATER ANALYSIS — IONIC

TELEPHONE: HOBBS 393-7751
AREA CODE - 505

KE-TONE®

UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LEECH P. O. BOX 1499
HOBBS, NEW MEXICO 88240

Company Rowland Trucking

Field West Hobbs Station

Lease Truckers

Type of Sample Fresh Water

WATER ANALYSIS

IONIC FORM		me/l *	mg/l *
Calcium (Ca++)	(CALCULATED)	3.36	67
Magnesium (Mg++)		1.00	12
Sodium (Na+)		1.58	36
Iron (Total)			
Bicarbonate (HCO_3^-)		4.00	244
Carbonate ($CO_3^=$)		Not	Found
Hydroxide (OH^-)		Not	Found
Sulphate ($SO_4^=$)		0.81	39
Chloride (Cl^-)		1.13	40
Total Dissolved Solids			438
7.65 ph c 68 °F			
Dissolved Solids on Evap. at 103° - 105° C			
Hardness as $CaCO_3$		4.36	218
Carbonate Hardness as $CaCO_3$ (temporary)		4.00	200
Non-Carbonate Hardness as $CaCO_3$ (permanent)		0.36	18
Alkalinity as $CaCO_3$		4.00	200
Specific Gravity c 68° F 1.000			

* mg/l = milligrams per Liter

* me/l = milliequivalents per Liter

$CaCO_3$ Scaling Index slightly positive @ 86°F(0.52)

$CaSO_4$ Scaling Index negative

Mabee Water Work

(AB-31 (2) EA

MIDESSA INDUSTRIAL VINYL CO

RT. 4 5203 WEST 42ND STREET
ODESSA, TEXAS 79763
(915) 381-2077 337-6775

"Growing Bigger By Serving Better"

UNICHEM INTERNATIONAL
P. O. BOX 1499
HOBBS, NEW MEXICO

INVOICE NO	001028
DATE	OCTOBER10, 1980
LOCATION	HOBBS, NEW MEXICO
WORK ORDER NO	672
TERMS	NET 30
SHIP VIA	INSTALLED
DATE INSTALLED	10/10/80
ORDERED BY	MR. BRAKEY

QTY.	UNIT	DESCRIPTION	UNIT PRICE	AMOUNT
		INSTALL PIT LINER		
1	ea.	30 mil black hypalon blanket		
		155' x 155' = 24,025 sq. ft. @	$ 60	$14,415 00
16	hrs.	Labor (eight men) to rake down pit area	9 00	144 00

78 x 155
18 x 155

19007 95
Hobbs Brine well

PLEASE PAY FROM THIS INVOICE
NO STATEMENT WILL BE SENT.

THANK YOU

SUB TOTAL	$14,559 00
TAX	
TOTAL	$14,559 00

APPLICATION FOR PERMIT PERMIT NO. LP-H-107

TO UTILIZE A LINED EVAPORATION PIT

New Mexico Oil Conservation Commission

Name of Operator Unichem International Inc

Address Box 1499, Hobbs, New Mexico

Name of lease upon which evaporation pit will be located Truckers Water Co. Brine Well #2

Location of ~~evaporation~~ brine storage pit: Unit Letter K Section 33 Township 18S Range 38E

Lease(s) which will be producing into pit Truckers Water Co. Brine Well #2

Pool(s) which will be producing into pit N/A

Analysis of disposal water: Chlorides N/A ppm. Total dissolved solids N/A ppm.
(If more than one pool will be producing into pit, give water analysis for each pool.)

Quantity of water to be disposed of into this pit N/A barrels per day.

Water production from these same wells six months ago N/A bpd. Three months ago N/A bpd
(If more than one pool will be producing into pit, give water production data for each)

Method of hydrocarbon entrapment to be employed: Settling tank N/A Header pit

If settling tank is to be used, give size and number of barrels

If header pit is to be used, give dimensions and depth

Header pit lining material Thickness

Dimensions of Evaporation Pit ("A" and "B" on diagram) See Attached

Number of square feet contained in above 11,025

Depth (Top of levee to floor of pit--"D" on diagram) 9 feet

Material to be used as liner HYPALON Thickness 30 mil

Does manufacturer recommend protection of material from direct sunlight? Yes No x

If yes, what means will be provided to so protect the material?

Is material resistant to hydrocarbons? Yes x No

Is material resistant to acids and alkalis? Yes x No

Is material resistant to salts? Yes x No

Is material resistant to fungus? Yes x No

Is material rot-resistant? Yes x No

Will joints in material be fabricated in the field? Yes 1 No

If yes, describe method to be used in joining material Lapped and glued with adhesive

Attach manufacturer's brochure describing the qualities of the lining material. See Attached

Describe the leakage detection system to be used See Attached

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and further, that the subject evaporation pit and appurtenances, when installed, will be kept in good repair, and that all due diligence will be exercised in keeping the surface of the water free of oil and other debris.

Name [signature] Title Administrative Mgr. Date 11-16-82

Approved by JERRY SEXTON Title Date NOV 22 1982

STATE OF NEW MEXICO

Revised 6-17-77

$50,000.00 BLANKET PLUGGING BOND

BOND NO. 4446488
(For Use of Surety Company)

(Note: File with Oil Conservation Commission, P. O. Box 2088, Santa Fe 87501)

KNOW ALL MEN BY THESE PRESENTS:

That Unichem International, Inc., et al. (~~an individual~~) (a partnership) (a corporation organized in the State of New Mexico, with its principal office in the city of Hobbs, State of New Mexico, and authorized to do business in the State of New Mexico), as PRINCIPAL, and HARTFORD ACCIDENT & INDEMNITY, a corporation organized and existing under the laws of the State of Connecticut, and authorized to do business in the State of New Mexico, as SURETY, are held firmly bound unto the State of New Mexico, for the use and benefit of the Oil Conservation Commission of New Mexico pursuant to Section 65-3-11, New Mexico Statutes Annotated, 1953 Compilation, as amended, in the sum of Fifty Thousand Dollars ($50,000.00) lawful money of the United States, for the payment of which, well and truly to be made, said PRINCIPAL and SURETY hereby bind themselves, their successors and assigns, jointly and severally, firmly by these presents.

The conditions of this obligation are such that:

WHEREAS, The above principal has heretofore or may hereafter enter into oil and gas leases, or carbon dioxide (CO_2) gas leases, or helium gas leases with the State of New Mexico; and

WHEREAS, The above principal has heretofore or may hereafter enter into oil and gas leases, or carbon dioxide (CO_2) gas leases, or helium gas leases on lands patented by the United States of America to private individuals, and on lands otherwise owned by private individuals; and

WHEREAS, The above principal, individually, or in association with one or more other parties, has commenced or may commence the drilling of wells to prospect for and produce oil or gas, or carbon dioxide (CO_2) gas or helium gas, or does own or may acquire, own or operate such wells, or such wells started by others on land embraced in said State oil and gas leases, or carbon dioxide (CO_2) gas leases, or helium gas leases, and on lands patented by the United States of America to private individuals, and on lands otherwise owned by private individuals, the identification and location of said wells being expressly waived by both principal and surety hereto.

NOW, THEREFORE, If the above bounden principal and surety or either of them or their successors or assigns, or any of them, shall plug all of said wells when dry or when abandoned in accordance with the rules, regulations, and orders of the Oil Conservation Commission of New Mexico in such way as to confine the oil, gas, and water in the strata in which they are found, and to prevent them from escaping into other strata;

THEN, THEREFORE, This obligation shall be null and void; otherwise and in default of complete compliance with any and all of said obligations, the same shall remain in full force and effect.

PROVIDED, HOWEVER, That thirty (30) days after receipt by the Oil Conservation Commission of New Mexico of written notice of cancellation from the surety, the obligation of the surety hereunder shall terminate as to property or wells acquired, drilled, or started after said thirty (30) day period but shall continue in effect, notwithstanding said notice, as to property or wells theretofore acquired, drilled, or started.

UNICHEM INTERNATIONAL I[illegible], et al
PRINCIPAL

P.O. Box 1499, Hobbs, N.M. 88240
Address

By William D. Walton
Signature

Vice President
Title

(Note: Principal, if corporation, affix corporate seal here.)

HARTFORD [illegible]CIDENT & INDEMNITY CO.
SURETY

6061 S. Willow Dr., Englewood, Colo. 80111
Address

By Pat Cargile
Attorney-in-Fact
Pat Cargile

(Note: Corporate surety affix corporate seal here.)

ACKNOWLEDGMENT FORM FOR NATURAL PERSONS

STATE OF _____)
COUNTY OF _____) ss.

On this _____ day of _____, 19____, before me personally appeared _____, to me known to be the person (persons) described in and who executed the foregoing instrument and acknowledged that he (they) executed the same as his (their) free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

_____
Notary Public

_____
My Commission expires

ACKNOWLEDGMENT FORM FOR CORPORATION

STATE OF New Mexico)
COUNTY OF Lea) ss.

On this 26th day of October, 19 81, before me personally appeared William D. Walton, to me personally known who, being by me duly sworn, did say that he is Vice President of Unichem International, Inc., et al and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

Linda Andrews
Notary Public

4-21-82
My Commission expires

ACKNOWLEDGMENT FORM FOR CORPORATE SURETY

STATE OF New Mexico)
COUNTY OF Lea) ss.

On this 26th day of October, 19 81, before me appeared Pat Cargile, to me personally known, who, being by me duly sworn, did say that he is attorney in fact of HARTFORD ACCIDENT & INDEMNITY CO. and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

Linda Andrews
Notary Public

4-21-82
My Commission expires
(Note: Corporate surety attach power of attorney.)

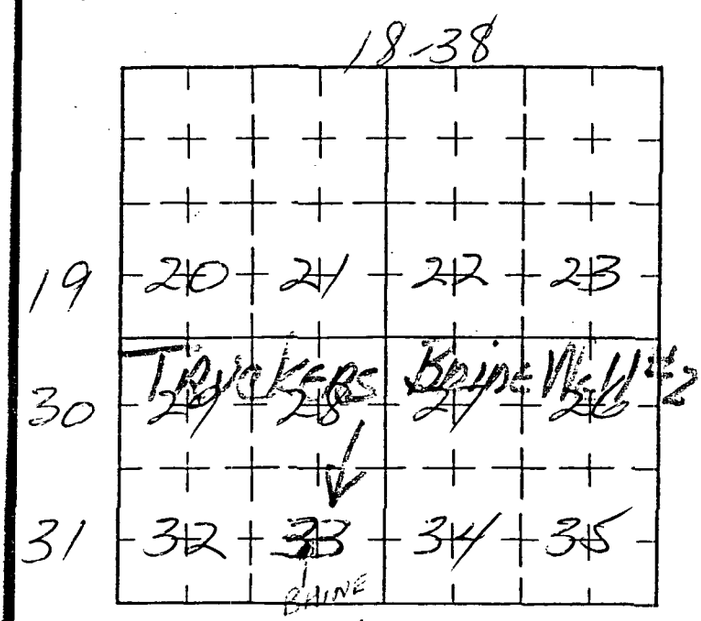
APPROVED BY:
OIL CONSERVATION COMMISSION OF NEW MEXICO

By _____

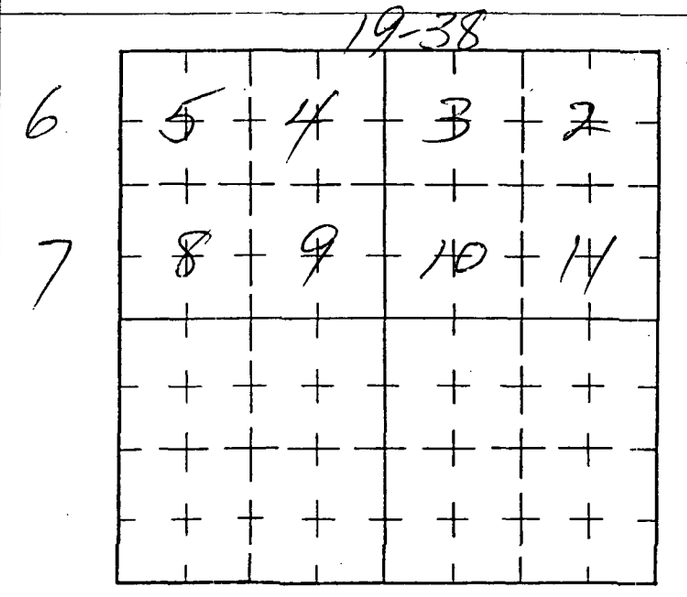
Date _____

Sec._____T._____ R._____

18-38



19-38



L-333	NW¼SW¼NW¼	r.
L-1120	Tr C-North Acres Sub-dn-Hobbs	Dom.
L-3174	SW¼NE¼NW¼	Dom.
L-3199	NE¼NW¼NW¼	Dom.
L-3264	SE¼SE¼NW¼	Dom.
L-3266	SW¼SW¼NE¼	OWD
L-1250		Limited Comm.
L-1266		OWD.
L-1294		Dom.
L-2506	SW¼NW¼SE¼	Dom.
L-1362		Dom.
L-3651	SE¼SW¼	Dom.
L-3709	SW¼SE¼	Dom.
L-2716	NE¼SW¼	Dom.
L-3655	SW¼SE¼NW¼ (over)	Dom.

L-4477	SE¼	Dom.
L-4825	SW¼SE¼NW¼	3 of Com.
L-5309	S½	Dom.
L-5477	SW¼SE¼	Dom.
L-5489	W½SW¼	Comm. & Dom.
L-5977	SW¼SE¼	Dom.
L-6015	SW¼SW¼SE¼	Dom.
L-1937	NWNWSW	IRR
L-6499	SE¼NW¼NW¼SW¼	Dom
L-7529	SE¼SE¼SW¼	
L-7653	NW¼NW¼NW¼	DTC
L-7662	NE¼NW¼SW¼SE¼NW¼	DTC & Ind.
L-7811	SE¼SE¼SW¼NW¼SE¼	DTC
L-7829	NW¼NW¼	DTC
L-7848	SE¼SW¼NW¼SE¼NW¼	DTC

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SECTION 21 TOWNSHIP 18 SOUTH RANGE 38 EAST

L-7930	NW¼NW¼	DTC
L-8025	SE¼NW¼NW¼	DTC
L-8190	NE¼SW¼NW¼	DTC
L-8379	NW¼SW¼NW¼	DTC
L-8595	NW¼SW¼NW¼	DTC
L-8668	NW¼SW¼NW¼	DTC
L-8687	SW¼NE¼SW¼NW¼	DTC

L-362	$S\frac{1}{2}SE\frac{1}{4}$	Dom.
L-2247		Dom.
L-1226		Dom.
L-1394		Dom.
L-1414		Dom.
L-1419		Dom.
L-1474		Dom.
L-1588		Dom.
L-1764		Dom.
L-2006		Irr.
L-2020		Dom.
L-2030		Dom.
L-3319		Dom.
L-3326		Dom.
L-3324	Lot 1, Blk. 9 (over)	Dom.
L-3339	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-3353		Dom.
L-2900	$NE\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-2324		Dom.
L-2325		Dom.
L-3415	$SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-3502		Dom.
L-3665	$SW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-3688	$NW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-2454	$SW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-2542	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-2728 (withdrawn)	$SW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Irr.
L-1336	$SE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-2856	$NE\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-2866	$NW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-2871	$NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-2879	$NW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.

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Section 22 Township 18 South Range 38 East

L-3030	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-3285	$NE\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-3657	$SW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-3805	$NE\frac{1}{4}NE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-3804	$NE\frac{1}{4}NE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-3838	$SW\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}$	Dom.
L-3272	[illegible]	Dom.
L-364-A	~~$NW\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$~~ SESENE	Irr.
L-367	$SW\frac{1}{4}NW\frac{1}{4}$	Irr.
L-383 Plugged	$NE\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Irr.
L-3071	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-3094	$SE\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-3095	$SE\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-3096	$NW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$ (over)	Dom.
L-847	$SW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Irr.
L-3085	$NE\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-3108	$SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-1102	$NW\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-3175	$SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-3182	$NW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-3201	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-3222	$NW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-3247	$NW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-3261	$N\frac{1}{2}S\frac{1}{2}NE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-364		Irr.
L-81 & L-364-Combined		Irr.
L-367-A-A		Irr.
L-3277	$NE\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-2909	$NW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-2911	$NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-2912	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-2913	$SE\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Dom.

Section 22 Township 18 South Range 38 East

L-2927	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-2892	$NW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-2959	$NW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-2972	$NW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-2980	$NE\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-98-A	$S\frac{1}{2}S\frac{1}{2}NE\frac{1}{4}SE\frac{1}{4}$	Irr.
L-2998	$NW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-74	$NW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Irr.
L-81	$NW\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Irr.
L-98	$N\frac{1}{2}S\frac{1}{2}NE\frac{1}{4}SE\frac{1}{4}$	Irr.
L-3030	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-143	$N\frac{1}{2}SE\frac{1}{4}$ — NW/28 [illegible]	Irr.
L-3894	$SE\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-3908	$SE\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-2828	$SE\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$	Dom.

(over)

L-3923	$NW\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-3930	$SE\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-3943	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-3959	$SE\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-3973	$SW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4047	$N\frac{1}{2}S\frac{1}{2}NE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-4072	$NE\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4083	$E\frac{1}{2}NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4103	$NE\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4132	$SE\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-4140	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4179	$SE\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-4182	$SE\frac{1}{4}$	Dom.
L-367-A-F & L-1764-Comb.		Irr.
L-4216	$SE\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4275	$SE\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-4294	$NE\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	Dom.

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Section 22 Township 18 South Range 38 East

L-4292	$SE\frac{1}{4}$	Dom.
L-4380	$SW\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4381	$N\frac{1}{2}S\frac{1}{2}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4390	$SE\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4439	$NE\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-4451	$SW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-4452	$NE\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-4518	Lot 16	Dom.
L-5056	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4479 (C)	$SW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Irr.
L-4544	$S\frac{1}{2}NW\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4593	$SW\frac{1}{4}NE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-4594	$NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-4605	$NE\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-4904	$SE\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4928	$S\frac{1}{2}S\frac{1}{2}SE\frac{1}{4}$	Dom.
L-4954	$SE\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4973	$NE\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-4979	$SE\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-4983	$SE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4987	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4994	$SW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-5005	$SE\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-5051	$SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-5100	$SE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-5192	$SE\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-367-A-I	$S\frac{1}{2}N\frac{1}{2}NW\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	Irr.
L-5305	$NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-5388	$NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-5432	$SE\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-5495	$NW\frac{1}{4}$	Dom.

Section 19	Township 18 South	Range 38 East
L-502	NW¼NE¼SE¼	Irr.
L-502-S renum.	SW¼NW¼SE¼ L-502-C	Irr.
L-4470	NE¼NE¼	Irr.
L-4675		Dom.
L-4803	SE¼SW¼SE¼	Dom.
L-4813	SW¼SE¼SE¼	Dom.
L-4886	SE¼	Dom.
L-4998	SW¼SE¼SE¼	Dom.
L-5253	SE¼SE¼SE¼	Dom.
L-5258	SE Corner	Dom.
L-5358	NE¼SE¼	Dom.
L-6017	SE¼SW¼	Oil
L-6018	SE¼SW¼	Oil
L-6019	SE¼SW¼	Oil

Section 19	Township 18 South	Range 38 East
L-6020	SE¼SW¼	Oil
L-6233	S½SE¼	Dom.
L-6306	S½SE¼	Dom.
L-6312	SW¼SE¼	Dom.
L-6337	SW¼NE¼SE¼	OWD
L-6343	SW¼	Dom. & Stk.
L-6344	NE¼SW¼	Irr.
L-6593	SE¼SE¼SW¼	Dom.
L-6632	SE¼SE¼	Dom. & Stk.
L-6635	SE¼SE¼	Dom. & Stk.
L-6660(E)	NE¼SW¼SW¼	OWD
L-6740	SE¼NE¼SW¼SE¼	Dom.
L-6732(1)	SE¼SE¼	Dom. & Stk.

Section 19	Township 18 South	Range 38 East
L-6827	S½SE¼	Dom.
L-6828	S½SE¼	Dom.
L-98-A into L-6344	NE¼SW¼	Irr.
L-6980(E)	SE¼SE¼SE¼	DOM.
L-7271	S½SE¼	Dom.

L-502-S - renumbered L-502-C

L-8150	NW¼SW¼SE¼ 19-18-38	DOM
L-8268	S½SE¼	DOM
L-8325	NE¼NE¼	DOM
L-8386	SE¼SE¼	DOM
L-8504	NW¼SW¼	DOM & STK
L-757-A	NE¼NE¼	IRR

L-8637	NW¼SW¼SW¼SE¼	DOM
L-8791	SE¼SW¼	DOM

L-1173	NE¼NE¼SW¼	rr.
~~L-502~~		rr.
L-1213		Shallow-Dom.
L-3445	SE¼NE¼NW¼	Dom.
L-2733	NE¼SE¼SW¼	Dom.
L-3863		Dom.
L-4043	SW¼NW¼SW¼	Irr.
L-502-A-Enlarged	SW¼NW¼SW¼	Irr.
L-5107	SE¼	Dom.
L-5371	SW¼SW¼SW¼	Dom.
L-5437	S½SW¼	Dom.
L-5607	S½SW¼	dom.
L-502-A-Enlgd-B	NW¼SW¼SW¼	Irr.
L-502-A-Enlgd-C - cancelled	E½SW¼SW¼	Irr.

L-6127	S½SW¼	Dom & Stk
L-6264	S½SW¼	Dom.
L-6317	N½SW¼	Dom.
L-6329	S½SW¼	Domestic
L-6374	S½SW¼	Dom.
L-6541	N½SW¼	Dom
L-6645	S½SW¼	Dom & Stk.
L-7100	SE¼SW¼	Dom.
L-476 & L-333-Comb-A	NE¼NW¼NW¼	Irr.
L-476 & L-333-Comb-A - CLW & P & PU well now located in the SW¼NE¼		A Ind.
L-7546	S½SW¼	Dom.
L-7777	NE¼NE¼	DTC
L-7810	NE¼NE¼NE¼	DTC

SECTION 20 TOWNSHIP 18 SOUTH RANGE 38 EAST

L-502-A-Enlarged-D	NW¼SW¼SW¼	IRR
L-7885	NE¼NE¼	DTC
L-7903	SE¼SE¼	DOM
L-8024	SE¼SE¼SW¼	DOM
L-8090	SW¼NW¼NE¼	DOM
L-8193	SW¼NE¼	DTC
L-8313	SW¼SW¼	DOM
L-8408	NE¼SW¼	DOM
L-8516	SE¼NE¼NE¼	DTC
L-8520	S½SW¼	DOM
L-8600	NE¼NE¼	DTC
L-8617	S½NW¼NE¼	DOM
L-8651	NE¼NW¼NW¼SE¼NE¼	DTC
L-8716	S½NW¼NE¼	DTC
L-8728	SE¼NE¼SW¼	DTC
L-8817	NE¼NE¼SE¼	STK
L-8851	NW¼SW¼NE¼	DTC

Section 22. Township 18 South Range 38 East

L-5592	$SW\frac{1}{4}SE\frac{1}{4}$	Dom
L-5612	$SW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-5618	$SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-5649	$SE\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-5654	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-5660	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-5752	$NE\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-5781	$SE\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-5783	$SW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-5838	$SE\frac{1}{4}NE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-5952	$NE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-6187	$NW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	DOM.
L-6210	$NE\frac{1}{4}NE\frac{1}{4}$	Dom
L-6229	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom
L-6258	$NW\frac{1}{4}NW\frac{1}{4}$	Dom.

L-6298	$NW\frac{1}{4}$	Dom & Stk,
L-6327	$SW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Domestic
L-6339	$SW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-6359	$NW\frac{1}{4}NW\frac{1}{4}$	Domestic
L-6671	$SW\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Domestic
L-6705		
L-367-A-J into L-4380	$SW\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Irr.
L-6948(E)	$NW\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-7084	$Nw\frac{1}{4}$	Dom.
L-7184	$NE\frac{1}{4}SE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-7232	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-2837	$NW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-7415	$SW\frac{1}{4}$	Dom.
L-7448	$SW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-7621	$SW\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}$	Dom.

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SECTION 22 TOWNSHIP 18 South Range 38 East

L-7650	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-7652	$SE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-7684	$NE\frac{1}{4}NE\frac{1}{4}$	Dom
L-7855	$NE\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	DOM
L-7920	$NE\frac{1}{4}NE\frac{1}{4}$	DOM
L-8010	$NW\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$	DOM
L-364-B	$NW\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	COM
L-8947	$SE\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	DOM

Section 23	Township 18 South	Range 38 East
L-1742		Dom.
L-2935	$SE\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-2948	$SW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Irr.
L-1896	$NW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Irr.
L-112 & L-112-Enlgd.	$NW\frac{1}{4}NW\frac{1}{4}$	Irr.
L-129	$SW\frac{1}{4}NW\frac{1}{4}$	Irr.
L-129-A	$NW\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}$	Irr.
L-250	$NW\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Irr.
L-250-A	$NW\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Irr.
L-3064	$SW\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}$	Mun.
L-1039	$SW\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-1309		Dom.
L-1359		Dom.
L-1342		Dom.
L-3293	(over)	Dom.

L-1501		Dom.
L-1509		Dom.
L-3578	$SW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-2522	$SE\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-1978		Dom.
L-3310	$SW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-3532		Dom.
L-3666	$SW\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-2512	$NW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-2519	$SW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-3566	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-129-B	$S\frac{1}{2}SW\frac{1}{4}NW\frac{1}{4}$	Irr.
L-4073	$NW\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4172	$NW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-4682	$N\frac{1}{2}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-5089	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4893	$SW\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Dom.

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Section 23	Township 18 South	Range 38 East
L-5046	$SW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Irr.
L-5293	$N\frac{1}{2}NW\frac{1}{4}NW\frac{1}{4}$	Irr.
L-5326	$SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-5338	$S\frac{1}{2}$	Air-Condition
L-5460	$SW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-5476	$NW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-5491	$NE\frac{1}{4}NE\frac{1}{4}SW\frac{1}{4}$	Dom.
L-129-C		Irr.
L-5723	$NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-6781	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-7594	$SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-7711	$NW\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Dom
L-7828	$SE\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	DOM
L-366-A	$SE\frac{1}{4}SE\frac{1}{4}$	IRR
L-8430	$SW\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	DOM
L-8778	$NW\frac{1}{4}NW\frac{1}{4}$	DOM

Section 24	Township 18 South	Range 38 East
L-2035		Irr.
L-2414	$SE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-3828	$SW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-6299	$SW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom & Stk.

#3 SECTION 25	TOWNSHIP 18 SOUTH	RANGE 38 EAST
L-8939	$SE\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	DOM
L-8970	$MW\frac{1}{4}NE\frac{1}{4}$	D & S

Section 25 — Township 18 South — Range 38 East

L-2950	NE¼SE¼	OWD
L-1810		Irr. & Dom.
L-2034		Irr.
L-2309		OWD
L-3439	NE¼SE¼SE¼	Dom.
L-3662	SE¼NW¼SE¼	Dom.
L-2345	NE¼SW¼SE¼	OWD
L-2431	SW¼NE¼	OWD
L-3500	SE¼NW¼	Dom.
L-3899	NE¼SW¼SE¼	Dom.
L-4086	SE¼NW¼SE¼	Dom.
L-4089	NW¼SE¼SE¼	Irr.
L-4274	NW¼NW¼NE¼	Dom.
L-4299	NW¼SE¼SE¼	Irr.
L-4759	SE¼SW¼SE¼ (over)	Dom.
L-4834	SE¼	Dom.
L-4885	SE¼	Dom.
L-4299-S	NE¼SW¼SE¼ (existing well L-4885)	Dom.
L-6105		Dom.
L-6438	SE¼SE¼SE¼	Dom.
L-6442	SE¼SE¼SE¼	Dom.
L-6744	SW¼SE¼SE¼	Dom.
L-6829	SE¼SE¼NW¼	Dom.
L-7488	NE¼	Dom.
L-7504	SW cor of SE¼	Dom & Stk
L-7599	SE¼SE¼	Dom.
L-7689	SW¼NW¼SE¼SE¼	DOM
L-7726	SW¼NE¼SE¼	DOM
L-7850	NW¼SW¼SE¼	DOM
L-7853	NE¼SW¼NE¼	DOM

#2 SECTION 25 TOWNSHIP 18 SOUTH RANGE 38 E.

L-7876	SE¼SE¼	DOM
L-7938	NW¼SW¼SE¼	DOM
L-8145	NW¼NE¼	DOM, STK & DTC
L-8262	SW¼SE¼	DOM
L-8285	NW¼SE¼	DOM
L-8413	NW¼SW¼	DOM
L-8443	SW¼NE¼	DOM
L-8496	SW¼SE¼	DOM & STK
L-8533	SE¼NW¼SE¼	DOM
L-8685	N½SW¼NW¼SE¼	DOM
L-8953	NW¼SE¼	Domes.
L-8686	N½SW¼NW¼SE¼	DOM
L-8710	NW¼SE¼	DOM
L-8757	SW¼	DOM
L-8777	NW¼SE¼	DOM
L-8779	NW¼SE¼	DOM
L-8805	SW¼NW¼SE¼	DOM
L-8807	SE¼NW¼SE¼	DOM
L-8826	SW¼NW¼SE¼	DOM
L-8843	NW¼SE¼	DOM
L-8863	SW¼NE¼	DOM
L-8891	NW¼SE¼	DOM
L-8900	NW¼SE¼	DOM
L-8917	NW¼SW¼SE¼	DOM

Section 26 . Township 18 South Range 38 East .

L-2416	$SW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-2604	$NW\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-2609	$NW\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}$	Comm.
L-2659	$NW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-2683	$NW\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-2708	$SW\frac{1}{4}NE\frac{1}{4}SW\frac{1}{4}$	Dom.
L-2717	$SW\frac{1}{4}NE\frac{1}{4}SW\frac{1}{4}$	Dom.
L-4130	$SE\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-739	$SW\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}$	Irr.
L-4724	$NE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-5040	$NE\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-5391	$SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-5420	$SW\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-2922	$NW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$ (over)	Dom.
L-2979	$SE\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.

L-104	$SW\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Irr.
L-125	$E\frac{1}{2}NW\frac{1}{4}$	Irr.
L-128 into L-298 & L-299-Comb.	$SE\frac{1}{4}NW\frac{1}{4}$	Irr.
L-225	$SW\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}$	Irr.
L-277	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Irr.
L-410	$S\frac{1}{2}SW\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}$	Irr.
L-902	$SW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-3105	$NW\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-938	$SW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-1031	$SW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-1084	$SW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-1090	$SW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-1116	$NW\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-1126	$SW\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-1128	$NE\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}$	Dom.
L-1448		Dom.
L-3276		Dom.

#2

Section 26 Township 18 South Range 38 East

L-3295		Dom.
L-1370		Dom.
L-3300		Dom.
L-1677		Dom.
L-1780		Dom.
L-3307	$SW\frac{1}{4}NE\frac{1}{4}SW\frac{1}{4}$	Dom.
L-2176		Irr.
L-2213		Irr.
L-3374	$SW\frac{1}{4}SE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-3447		Dom.
L-2583	$NW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-2580	$NE\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-128	$SW\frac{1}{4}SE\frac{1}{4}NW\frac{1}{4}$	Comm.
L-128 into L-298 & L-299-Comb.	$SE\frac{1}{4}NW\frac{1}{4}$ (OVER)	Irr.

L-5510	$NE\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	26-18-38	Dom.
L-5513	$NE\frac{1}{4}NW\frac{1}{4}$	26-18-38	Dom.
L-5661	$S\frac{1}{2}SE\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}$	26-18-38	Dom.
L-5889	$SW\frac{1}{4}SW\frac{1}{4}$	26-18-38	Dom.
L-6215	$NW\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}$	26-18-38	Dom
L-6805	$SW\frac{1}{4}NW\frac{1}{4}$	26-18-38	Dom.
L-6846	$SW\frac{1}{4}SW$	26-18-38	Dom.
L-7881	$NW\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$		DOM

L-5877	NE¼SE¼	Dom.
L-5907	NE¼	3 af com.
L-6289	NE¼NE¼NE¼	Comm. 3a/f
L-6348	NW¼NW¼NE¼	oil
L-6349	NE¼NE¼NW¼	oil
L-6350	NE¼NE¼NW¼	oil
L-6351	SE¼NE¼NW¼	oil
L-6352	NE¼NW¼NW¼	oil
L-6353	SE¼NW¼NW¼	oil
L-6354	SE¼SE¼NW¼	oil
L-6355	NW¼SW¼NE¼	oil
L-7526	SW¼SW¼NE¼	cathodic
L-7527	SW¼NW¼SW¼	cathodic
L-7656	SE¼NW¼NE¼	dom
L-7678	SE¼NW¼NE¼	Dom

SECTION 28 #2 TOWNSHIP 18 SOUTH RANGE 38 EAST

L-7679	NE¼SW¼NE¼	Dom
L-7717	NW¼NE¼SW¼NE¼	Dom
L-7716	NE¼SW¼NE¼	Dom
L-7720	SE¼NW¼NE¼	Dom
L-7729	NE¼SW¼NE¼	DOM
L-7745	NE¼SW¼NE¼	Dom
L-8009	NW¼NW¼NW¼	DTC
L-8013	NE¼SW¼NE¼	Dom
L-8192	NE¼NW¼NW¼	DTC
L-8485	NW¼NW¼	DTC

Section 29 Township 18 South Range 38 East

L-4547	$NW\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	m.
L-5577	$NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-6203	$NE\frac{1}{4}$	Dom.
L-6444	$W\frac{1}{2}SW\frac{1}{4}$	Dom.
L-6453(E)2	$NW\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}$	OWD
L-6570(E)	$SW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	OWD
L-6603	$NE\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Domestic
L-6717	$SE\frac{1}{4}NE\frac{1}{4}$	Domestic
L-6745	$NW\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	OWD
L-7005	$NW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Drinking &
L-7017	$SW\frac{1}{4}SW\frac{1}{4}$ Dom.	San. Pur.
L-7068	$SW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-7427	$SE\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-7432	$SE\frac{1}{4}NE\frac{1}{4}$	Dom.

L-7434	$SE\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-7530	$SE\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	
L-7531	$NW\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	
L-7528	$SE\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	
L-7570	$SW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-7628	$NW\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-7673	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom
L-7754	$NE\frac{1}{4}NE\frac{1}{4}$ $SE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	DTC
L-7825	$NW\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	DOM
L-7826	$SW\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	DOM
L-7839	$SE\frac{1}{4}NE\frac{1}{4}$	DOM
L-8131	$NW\frac{1}{4}SW\frac{1}{4}$	DOM
L-8135	$SE\frac{1}{4}NE\frac{1}{4}$	DOM
L-8191	$NE\frac{1}{4}$ $SE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	DTC

#2 SECTION 29 TOWNSHIP 18 SOUTH RANGE 38 EAST

L-8228	$SE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	DTC
L-8229	$NW\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	DOM
L-8362	$NW\frac{1}{4}SW\frac{1}{4}$	DTC
L-8370	$NE\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	DTC
L-8429	$NE\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	DOM
L-8446	$SE\frac{1}{4}$ $NE\frac{1}{4}NE\frac{1}{4}$	DOM
L-8448	$NW\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	DTC
L-8737	$SE\frac{1}{4}NE\frac{1}{4}$	DOM
L-8860	$N\frac{1}{2}NE\frac{1}{4}$	D & S
L-8867	$NE\frac{1}{4}NE\frac{1}{4}$	D & S

#1
Section 30 Township 18 South Range 38 East

L-2629	$SE\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-2660	$NE\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-2858	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-2873	$SE\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-3130	$SE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$ of $NE\frac{1}{4}$	Dom.
L-3136	$NE\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-3996	$NE\frac{1}{4}NE\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4224	Tract #15, Watkins Survey	Dom.
L-4428	$NW\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-4438	$NE\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4483	$SW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4484	$SW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4511	$SW\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4519	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4561	$SE\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$ (over)	Dom.
L-4864	$NE\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4941	$NW\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-5027	$SW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	OWD

#2
Section 30 Township 18 South Range 38 East

L-3259	$NW\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-1433		Dom.
L-1835	N½SE¼NE¼	Irr.
L-1835-A	SW¼SE¼NE¼	Irr.
L-1835-B	NW¼NE¼NE¼	Irr.
L-1835-C	N½SW¼NE¼NE¼	Irr.
L-1835-D (c)		Irr.
L-1836 (w)		Dom.
L-1862 (c)		Irr.
L-1862-A	SE¼NE¼NE¼	Irr.
~~L-1937~~	~~NW¼NW¼SE¼~~ See 21	~~Irr. 60ac.~~
L-2167	SWNENW	Dom.
L-3352	NWNENE	Dom.
L-2244	S½NWNENE	Dom.
L-2271	SWNENE (over)	Dom.
L-2314		OWD
L-3526		Dom.
L-3545	$NE\frac{1}{4}$	Expl.
L-3650	$NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-3659	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-3690	$SW\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-2395	$SW\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	OWD
L-2577	$NW\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-1433	$NE\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-3737	$E\frac{1}{2}NW\frac{1}{4}$	Dom.
L-3802	$NE\frac{1}{4}$	Dom.
L-3912	$NW\frac{1}{4}NW\frac{1}{4}$	Irr.
L-3979	$SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-5084	$NW\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-5101	$E\frac{1}{2}NW\frac{1}{4}$	Dom.
L-5213	$E\frac{1}{2}NW\frac{1}{4}$	Dom.
L-3130	$SE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$ of $NE\frac{1}{4}$	Dom.

Section 30 Township 18 South Range 38 East

L-3136	$NE\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-3903	$NE\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-3904	$NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-1862-C	$NE\frac{1}{4}NE\frac{1}{4}$	$2\frac{1}{2}$ ac.
L-1862-C-A	$NE\frac{1}{4}NE\frac{1}{4}$	$2\frac{1}{2}$ Ac.
L-4397	$SW\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4617	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4962	$E\frac{1}{2}NW\frac{1}{4}$	Dom.
L-5047	$N\frac{1}{2}SW\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-5148	$SE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-5162	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-5216	$SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-5405	NE Corner	Dom.
L-5406	$SE\frac{1}{4}SE\frac{1}{4}NW\frac{1}{4}$	Dom.

(over)

L-5473	$NE\frac{1}{4}NE\frac{1}{4}SW\frac{1}{4}$	Dom.
L-5593	$SE\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-5596	$SW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	OWD
L-5596-X	$SW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	OWD
L-5596-X-2	$SW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	OWD
L-5624	$SW\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	OWD
L-5625	$SE\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	OWD
L-5626	$SW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	OWD
L-5627	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	OWD
L-5628	$NE\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	OWD
L-5629(ES)	$NW\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	OWD
L-5630(ES)	$NE\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	OWD
L-5655	$SW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	OWD
L-5656	$SE\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	OWD
L-5657	$SW\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	OWD
L-5666	$NE\frac{1}{4}$	Dom.
L-5678	$SE\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Dom.

Section 30 Township 18 South Range 38 East

L-5818	$SE\frac{1}{4}SE\frac{1}{4}NW\frac{1}{4}$	OWD
L-5840	$S\frac{1}{2}SE\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-5841	$W\frac{1}{2}SW\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-5846	$NW\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-5847	$NE\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-5849	$SE\frac{1}{4}SE\frac{1}{4}NW\frac{1}{4}$	OWD
L-5865	$SW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Oil
L-5866	$SW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Oil
L-5867	$SW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Oil
L-5868	$SW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Oil
L-5869	$SW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Oil
L-5870	$SW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Oil
L-5871	$NW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Oil

over

L-5886	$N\frac{1}{2}SW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Oil
L-5887	$SW\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Oil
L-5888	$SW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Oil
L-5893	$SW\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Oil
L-5894 (2)	$E\frac{1}{2}NW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Oil
L-5895	$SW\frac{1}{4}NE\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Oil
L-5896	$SE\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Oil
L-5897	$N\frac{1}{2}SW\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Oil
L-5905	$NE\frac{1}{4}$	Dom.
L-5906	$NE\frac{1}{4}$	Dom.
L-5911	$NE\frac{1}{4}$	Dom.
L-5925	$SW\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Oil
L-5927	$NW\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-5928	$SW\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Dom.

cont.

#5

Sec. 30 Twp. 18-S. R 38-E.

L-5929	NW¼SE¼NE¼	Oil
L-5930	NW¼SE¼NE¼	Oil
L-5931	NW¼SE¼NE¼	Oil
L-5932	NW¼SE¼NE¼	Oil
L-5933	NW¼SE¼NE¼	Oil
L-5934	NW¼SE¼NE¼	Oil
L-5935	NW¼SE¼NE¼	Dom.
L-5938	W½NE¼	Dom.
L-5939	NW¼NW¼SW¼NW¼	Oil
L-5940	SW¼NE¼	Dom.
L-5941	W½NE¼	Dom.
L-5946 (2)	E½NW¼SW¼NE¼	Oil
L-5947	E½NW¼SW¼NE¼	Oil

over

L-5948 (2)	SW¼NE¼SW¼NE¼	Oil
L-5949	SW¼NE¼SW¼NE¼	Oil
L-5950	NW¼NW¼NW¼	Dom.
L-5960	NE¼NW¼NE¼	Dom.
L-5974	SE¼NW¼NE¼	Dom.
L-5986	SW¼SW¼NE¼	Oil
L-5987	SW¼SW¼NE¼	Oil
L-5993	NE¼SW¼	Stk.
L-6000	SE¼SW¼NE¼	Oil
L-6001	SE¼SW¼NE¼	Oil
L-6002	SE¼SW¼NE¼	Oil
L-6003	SE¼SW¼NE¼	Oil
L-6004	NW¼NW¼SE¼	Oil
L-6005	NW¼NW¼SE¼	Oil
L-6006 (LC)	NE¼NW¼SE¼	Oil
L-6007 (LC)	NE¼NW¼SE¼	Oil

#6

Sec. 30 Twp. 18-S. Rge. 38-E.

L-6011	NW¼NW¼SE¼	Oil
L-6012	NW¼NW¼SE¼	Oil
L-6013 (LC)	NE¼NW¼SE¼	Oil
L-6014 (LC)	NE¼NW¼SE¼	Oil
L-6025 (LC)	SW¼SE¼SW¼NE¼	Oil
L-6026	NE¼NW¼NW¼SE¼	Oil
L-6027	SE¼SW¼SW¼NE¼	Oil
L-6032 thru L-6041	S½NW¼SE¼NE¼	Oil
L-5818 (1)	SE¼SE¼NW¼	Oil
L-5849 (1)	SE¼SE¼NW¼	Oil
L-6124	NW¼NE¼	Dom
L-6141	SE¼NW¼NW¼SE¼	Oil
L-6142	SE¼NW¼NW¼SE¼	Oil

L-6143	SW¼NW¼NW¼SE¼	Oil
L-6144	SW¼NW¼NW¼SE¼	Oil
L-6145	SW¼NW¼NW¼SE¼	Oil
L-6150	NE¼NE¼SW¼	"
L-6150-X	"	"
L-6150-X-2	"	"
L-6150-X-3	"	"
L-6150-X-4	"	"
L-6176 (1)	NW¼SW¼NE¼	Salvage oil
L-6177 (1)	NW¼SW¼NE¼	
L-6178 (1)	NE¼SW¼NE¼	
L-6179 (1)	NE¼SW¼NE¼	

L-5949 (1) (2) SW¼NE¼SW¼NE¼ L-5894 (1) E½NW¼SW¼NE¼
L-5895 (1) (2) SW¼NE¼SW¼NE¼ L-5946 (1) E½NW¼SW¼NE¼
L-5947 (1) (2) E½NW¼SW¼NE¼ L-5948 (1) SW¼NE¼SW¼NE¼
L-5929(1); L-5930(1); L-5931(1); L-5932(1); L-5933(1); L-5934(1)

Section 30 Township 18 S. Range 38 E.

L-6200	SE¼SW¼SW¼NE¼	OWD
L-6025(E)(3)	SW¼SE¼SW¼NE¼	OWD
L-6026(E)(3)	NE¼NW¼NW¼SE¼	OWD
L-6027(E)(3)	SE¼SW¼SW¼NE¼	OWD
L-6291	NE¼SW¼NE¼	Irr
L-6294 (E2)	NW¼NE¼NW¼SW¼	Dom & OWD
L-6295 (E2)	SW¼NW¼NW¼SW¼	Dom & OWD

L-6032(1); L-6033(1); L-6034(1); L-6035(1); L-6036(1); L-6037(1); L-6038(1) S½SE¼NE¼ OWD

L-6340 NE¼SW¼SW¼NE¼
L-6340-X " L-6340-X-2 NE¼SW¼SW¼NE¼
L=6340-X-3 SW¼SW¼SE¼NE¼ (also L-6340-X-4 & L-6340-X-5)
L-6340-X-6 SE¼SE¼SW¼NE¼ (also L-6340-X-7, 8, 9)

L-6365	NE¼SW¼NE¼	Salvage Oil
L-6366	NW¼SW¼NE¼	Salvage Oil

(L-6340 thru L-6340-X-9 now numbered L-6340(E-2) thru L-6340-X-9(E-2)

L-6150-X-5	NW¼NE¼NE¼NE¼SW¼	Oil
L-6150-X-6	SW¼NE¼NE¼NE¼SW¼	Oil
L-6150-X-7	NW¼SE¼NE¼NE¼SW¼	Oil
L-6150-X-8	SW¼SE¼NE¼NE¼SW¼	Oil
L-7169	NW¼NW¼NE¼	Dom.
L-7245	SE¼NE¼	Dom.
L-7286	NE¼NW¼NE¼	Dom.
L-7532	SW¼SE¼SE¼	
L-7597	NE¼NW¼	Dmm.
L-7602	NE¼NE¼NE¼	Dom.

#9

Section 30 Township 18 S Range 38 E

L-6514(E)	SE¼SW¼NE¼	30-18-38	oil salvage
L-6514(E)X	"	"	"
L-6514(E)X2	"	"	"
L-6518	SE¼NE¼	Domestic	
L-6527	NW¼NE¼SW¼	Oil Salvage	
L-6545(E)	SE¼SE¼NE¼	OWD	
L-6514 (E-2)	SW¼SE¼SW¼NE¼	OWD	30-18-38
L-6514-X ~~(E-2)~~ (E-3)	SW¼SE¼SW¼NE¼	OWD	30-18-38
L-6514-X-2 ~~(E-2)~~ (E-4)	SW¼SE¼SW¼NE¼	OWD	30-18-38
L-6971(E)	NW¼NE¼NW¼SE¼		OWD
L-6972(E)	NW¼NE¼NW¼SE¼		OWD
L-6973(E)	NE¼NE¼NW¼SE¼		OWD
L-6974(E)	NW¼NE¼NW¼SE¼		OWD
L-6975(E)	NW¼NW¼NW¼SE¼		OWD
L-6992(E)	NE¼NE¼NW¼SE¼		OWD
L-6993(E)	NE¼NW¼NW¼SE¼		OWD
L-6994(E)	SE¼NW¼NW¼SE¼		OWD
L-6995(E)	NE¼NE¼NW¼SE¼		OWD
L-6996(E)	NE¼NE¼NW¼SE¼		OWD
L-7732	NE¼NW¼		DOM
L-7962	NE¼SW¼NE¼		DOM
L-8018	NE¼NE¼NE¼		DOM
L-8036	NW¼NW¼NE¼		DOM
L-8391	NE¼SW¼		DOM & STK
L-8445	NW¼NE¼		DOM
L-8447	NW¼NE¼		DTC
L-8545	NW¼NE¼		Dom
L-8546	NW¼NE¼		DOM

#

SECTION 30 TOWNSHIP 18 SOUTH RANGE 38 EAST

L-8928	SW¼NE¼	DOM

Section 31	Township 18 South	Range 38 East.
L-2564	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4121	$SW\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-5400	$SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-6684	$SE\frac{1}{4}SE\frac{1}{4}$	Stk.
L-7447	$SW\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-7533	$SW\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	

Section 32	Township 18 South	Range 38 East
L-4187	$SE\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-2964	$SE\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-3078	$SW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-1245		Dom.
L-1260		OWD
L-1264		OWD
L-1265		OWD
L-1268		Dom.
L-1565	Dom.	
L-2112		Dom.
L-2302		OWD
L-3623	$SE\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}$	Dom.
L-2555	$SW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-2688	$SW\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}$ (over)	Comm.
L-2709	$SW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Ind.
L-3849	S	Dom.
L-5431	$NW\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-5505	$SW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Comm.
L-5736	$NW\frac{1}{4}$	Comm.
L-5874	$N\frac{1}{2}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-6090	$SE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-6245	$N\frac{1}{2}NW\frac{1}{4}$	Dom
L-1245(1) (2) (3)(4)	$NE\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}$ (E 5)	OWD
L-6488(E)	$SW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	OWD
L-7103	$SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-7204	$SE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-7461	$SE\frac{1}{4}SW\frac{1}{4}$	DTC
L-7534	$NW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	
L-7535	$NW\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$	
L-7536	$SE\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	

#2

SECTION 32	TOWNSHIP 18 SOUTH	RANGE 38 EAST
L-7774	$NW\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}$	DOM
L-8050	$NW\frac{1}{4}SW\frac{1}{4}$	DOM
L-8128	$NW\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}$	DTC
L-8377	$SW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	DTC

Section 33	Township 18 South	Range 38 East
L-143	SW¼NW¼SW¼	C[illegible] & IRR
L-2766	SE¼NE¼NE¼	Dom.
L-113	NE¼SE¼	Irr.
L-1701		Dom.
L-1196		Dom.
L-1786		Dom.
L-3299	NW¼SE¼SE¼	Dom.
L-2232		Dom.
L-2264		Dom.
L-2272		Dom.
L-2316		Dom.
L-2440	S½SW¼	Dom.
L-3729	NE¼SW¼	Dom.
L-4144	NE¼SW¼	Dom.
L-4362	E½W½NW¼ (over)	Dom.
L-4750	SE¼NE¼SW¼	Dom.
L-6186	SE¼NE¼	Dom.
L-6385	SW corner	Dom
L-6574(E)	SW¼SW¼NW¼	OWD
L-1268(E)	NE¼NW¼NE¼	OWD
L-2836	SW¼SW¼SE¼	Mun.
L-7523	NW¼SE¼SE¼	
L-8063	SE¼NE¼NE¼	DOM
L-8223	SW¼	DTC
L-8564	SW¼SW¼	DOM
L-8845	SW¼	DOM

Section 34	Township 18 South	Range 38 East
L-106	Lot 15, Blk 46 Orig Hobbs	Ind.
L-940	SW¼NE¼NW¼	Mun.
L-941	SW¼NE¼NW¼	Mun.
L-942	SW¼NE¼NE¼	Mun.
L-943	SW¼NE¼NW¼	Mun.
L-944	SW¼NE¼NW¼	Mun.
L-945	SW¼NE¼NW¼	Mun.
L-1082	NE¼NE¼NW¼	Dom.
L-1097	NE¼SW¼SE¼	Dom.
L-3159	NE¼NE¼SW¼	Dom.
L-3182	Lot 12, Blk 9 Albertson Sub-div.	Dom.
L-1340		Dom.
L-1635		Dom.
L-2097		Dom.
L-5357	SW¼NE¼SW¼ (over)	Dom.
L-2007		Mun.
L-2143		Dom.
L-2323		Dom.
L-2903	SE¼NE¼NW¼	Dom.
L-3573	SE Corner	Dom.
L-3916	NE¼NE¼	Dom.
L-3944	SE¼SW¼SE¼	Dom.
L-5749	NE¼NE¼SW¼	To Drill
L-6268	NE¼NE¼NE¼	Dom.
L-7524	SE¼NW¼NW¼	
L-7525	NE¼SE¼SW¼	
L-7541	SW¼NE¼NW¼	

#1
Section 35 Township 18 South Range 38 East

L-1517		Dom.
L-2915	$SW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Dom. & Comm.
L-2150	$SW\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$	4 ac.
L-3003	$SE\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-101	$S\frac{1}{2}S\frac{1}{2}NW\frac{1}{4}NW\frac{1}{4}$	Irr.
L-108	$SE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Irr.
L-132	$NW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Irr.
L-159		Irr.
L-195	$SW\frac{1}{4}SE\frac{1}{4}$	Irr.
L-220	$SE\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Mun.
L-220-S	$SW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Mun.
L-221	$SW\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Mun.
L-225-B-Enlgd.	$NE\frac{1}{4}NW\frac{1}{4}$	Irr.
L-1040	$NE\frac{1}{4}SE\frac{1}{4}$ (over)	Dom.
L-1051	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Irr.
L-1058	$SE\frac{1}{4}NE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-1101	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-1150	$S\frac{1}{2}S\frac{1}{2}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-3162	$SE\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-2616	$NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-571		Irr.
L-1229		Dom.
L-1228		Dom.
L-1225		Dom.
L-1184		Dom.
L-1179		Dom.
L-3347		Dom.
L-1351		Dom.
L-1352		Dom.
L-1366		Dom.
L-1367		Dom.

#2
Section 35 Township 18 South Range 38 East

L-1387		Dom.
L-1420		Dom.
L-1451		Dom.
L-1452		Dom.
L-1497		Dom.
L-1500		Dom.
L-1512		Dom.
L-1528		Dom.
L-1778		Mun.
L-1804		Dom.
L-1805		Mun.
L-1832		Mun.
L-3320		Dom.
L-2074	(over)	Dom.
L-2223		Mun.
L-3348		Dom.
L-2277		Dom.
L-2285		Dom.
L-2292		Dom.
L-2293		Dom.
L-3675	$SE\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-2485	$NE\frac{1}{4}SW\frac{1}{4}$	Dom.
L-2626	$NW\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-3858	$SW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-2637	$NW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-2321		Dom.
L-2886	$SE\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-3691	$SW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-3935	$SW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-3950	Lots 6, 7, 8 Blk 2 Campbell Add.	Dom.
L-4244	$SE\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$	Dom.

#3

Section 35 Township 18 South Ra[illegible] 38 East

L-4307	$SE\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4440	$NW\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-4441	$SE\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-4641	$NE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-5083	$NW\frac{1}{4}NE\frac{1}{4}SW\frac{1}{4}$	Dom.
L-4891	$S\frac{1}{2}S\frac{1}{2}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-5702	Supply: $SW\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$ Return: $NW\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	Air-Conditioning
L-6078	$SW\frac{1}{4}NW\frac{1}{4}$	stk.
L-220	$SE\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Mun.
L-6398	$NW\frac{1}{4}$	Dom.
L-6675.	$SW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-6743	$NE\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-7550	$E\frac{1}{2}SW\frac{1}{4}$	Dom & Stk
L-7836	$NE\frac{1}{4}SW\frac{1}{4}$	DOM
L-8194	$SW\frac{1}{4}SE\frac{1}{4}$	DOM

Section 36 Township 18 South Range 38 East

L-2223 & L-2223-A-A into L-2223	$NE\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	Irr.
L-2223-B	NW	Withdrawn Mun.
L-2223-A		Mun.
L-2535	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-2223-A-A into L-2223	$NW\frac{1}{4}$	Irr.

Section 2 Township 19 South Range 38 East

L-2939	$SW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-3010	$NE\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-48-C	$S\frac{1}{2}N\frac{1}{2}NE\frac{1}{4}NE\frac{1}{4}$	Irr.
L-195-A & L-1454-Enlgd.	$NW\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$ (CANCELLED)	Irr. NOT
L-946	$SW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Mun.
L-3196	$NE\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-183	$NW\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Irr.
L-662	$NE\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Irr.
L-1354		Dom. & Stk.
L-1454		Irr.
L-1811		Dom.
L-1502		Dom.
L-1872		Dom.
L-2098		Irr. NOT

(over)

L-2220		Dom.
L-3402	$SE\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-3418	$SE\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-3535	$N\frac{1}{2}NE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-3543	$N\frac{1}{2}NE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-3679	East $\frac{1}{2}$	Dom.
L-2511	$NE\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-2539	$NW\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-2541	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-2867	$E\frac{1}{2}SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-2882	$NW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-3780	$SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-3942	$NE\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-3971	$N\frac{1}{2}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-3997	$NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4004	$SW\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-6164	$NE\frac{1}{4}NE\frac{1}{4}SE\frac{1}{4}$	Dom

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Section 2 Township 19 South Range 38 East

L-2037		Irr. NOT
L-4100	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4190	$NW\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4310	East $\frac{1}{2}$	Dom.
L-48	$NE\frac{1}{4}$	Irr.
L-48-A		Irr.
L-48-A-A	$SW\frac{1}{4}NE\frac{1}{4}$	Irr.
L-48-B	$NE\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Irr.
L-48-C		Irr.
L-50	$NE\frac{1}{4}NW\frac{1}{4}$	Irr.
L-4459	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4527	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4600	$E\frac{1}{2}$ Tract 8	Dom.
L-4698	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.

(over)

L-4986	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-5155	$SW\frac{1}{4}SE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-5278	$NE\frac{1}{4}NE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-5485	$SW\frac{1}{4}SE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-5635	$SW\frac{1}{4}S\frac{1}{2}SW\frac{1}{4}$	Dom.
L-6086	$NE\frac{1}{4}NE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-6211	$NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-6382	$NW\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom & Stk.
L-6697	$N\frac{1}{2}NE\frac{1}{4}SE\frac{1}{4}$	Domestic
L-6741	$SW\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Dom. & Stk.
L-6780	$NW\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-7000	$SW\frac{1}{4}$	Observation
L-7001	$SW\frac{1}{4}$	"
L-7002	$SW\frac{1}{4}$	"
L-7052	$NE\frac{1}{4}NE\frac{1}{4}$	Dom.

III

SECTION 2 TOWNSHIP 19 South, RANGE 38 East

L-220-S-6	$NE\frac{1}{4}NE\frac{1}{4}SW\frac{1}{4}$	MUN
L-220-S-7	$SE\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}$	MUN
L-220-S-8-New Mexico	$NW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	MUN
L-7502	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom. IRR

Section 3 Township 19 South Range 38 East

L-188	$NW\frac{1}{4}NE\frac{1}{4}SE\frac{1}{4}$	Irr.
L-3084	Lot 9 Blk 20 So. Hts. Add. to Hobbs, $SW\frac{1}{4}(NE\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4})$	Dom.
L-947	$SW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Mun.
L-1016	$SE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-1172	$E\frac{1}{2}NE\frac{1}{4}SW\frac{1}{4}$	Dom.
L-1397		Dom.
L-1411		Ind.
L-1518		Dom.
L-1579		Dom.
L-1593		Dom.
L-1626		Dom.
L-3330	$SW\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-2175		Dom.
L-2320	(over)	Dom.
L-3416	$SE\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-2388	Lot 1, Blk 24	Dom.
L-3714	$SE\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-2570	$SE\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-2868	$NW\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$	OWD
L-3808	$SE\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-4181	$SE\frac{1}{4}SW\frac{1}{4}$	Dom.
L-4316	$SE\frac{1}{4}SW\frac{1}{4}$	Dom.
L-4317	$SE\frac{1}{4}SW\frac{1}{4}$	Dom.
L-4616	$NE\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}$	Dom.
L-4635	$NE\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-5153	$SW\frac{1}{4}$	Dom.
L-5642	$SE\frac{1}{4}SE\frac{1}{4}$	Dom.
L-5830	$SW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-5936	$SE\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-6192	$NE\frac{1}{4}SW\frac{1}{4}$	Dom
L-6373	$NW\frac{1}{4}NE\frac{1}{4}SW\frac{1}{4}$	Dom

Section 3 Township 19 S Range 38 E

L-6390	SW¼SE¼	Domestic
L-6578	SE¼SE¼	Domestic
L-6669	SW¼SE¼SW¼	Domestic
L-6902	NW¼SW¼	Domestic
L-6941	NW¼SW¼	Domestic
L-7176	SW¼	Domestic
L-7297	SW¼SE¼SE¼	Dom & Stk
L-7522	SE¼NW¼NW¼	-
L-7661	E½NE¼SW¼	Domestic
L-7758	NW¼NE¼SE Cor	DOM

Section 4 Township 19 South Range 38 East

L-2982	SW¼SE¼NE¼	Dom.
L-241	NW¼NE¼	Irr.
L-937	Blk A-NEw Hobbs Add.	Ind.
L-1104	SE¼SW¼NE¼	Dom.
L-1105	NE¼ Lot 10-Blk 3	Dom.
L-1345		Dom.
L-1592		Dom.
L-2536	SW¼NE¼	OWD
L-5707	NE¼SE¼	Dom./
L-6097	SE¼NE¼	Dom.
L-7521	SW¼NW¼NE¼	
L-7540	NW¼NW¼NW¼	
L-227	NE¼NW¼NW¼	IND.
L-228	NW¼NE¼NW¼	IND
L-229	SW¼NW¼NW¼	IND
L-230	NE¼NE¼NW¼	IND
L-231	SW¼NE¼NW¼	IND
L-8158	SE¼SE¼NE¼	DOM
L-8200	SE¼SE¼	OWD
L-8317	SW¼NW¼NW¼	DTC

Section 5 Township 19 South Range 38 East

L-2464	$NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-2966	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-2985	$SW\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-2994	$SW\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$ or $NW\frac{1}{4}SE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-3082	$SE\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-995	$NW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-1010	$NW\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-3127	$NE\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-1017	$SW\frac{1}{4}SE\frac{1}{4}ME\frac{1}{4}$	Dom.
L-1060	$SE\frac{1}{4}SE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-1071	$NE\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-1115	$S\frac{1}{2}SE\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-1162	$SW\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-3223	$S\frac{1}{2}NE\frac{1}{4}$	Dom.
L-3245	$SE\frac{1}{4}$ $W\frac{1}{2}$ (over)	Dom.
L-1181		Dom.
L-1369		Dom.
L-2375	$NW\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-1418		Dom.
L-1432	Do	Dom.
L-1513		Dom.
L-1520		Dom.
L-1583		Dom.
L-1941		Dom.
L-1971		Dom.
L-1998		Dom.
L-2005		Irr. Not
L-2029		Dom.
L-2100		Dom.
L-3337		Dom.
L-2233		OWD
L-2263		Dom.

#2
Section 5 Township 19 South Range 38 East

L-2590	$NE\frac{1}{4}SE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-2265		Dom.
L-2298		Dom.
L-2405	$NE\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-2591	$SE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-2410	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-2425	$SW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-2560	$SW\frac{1}{4}SW\frac{1}{4}$ $NE\frac{1}{4}$	Dom.
L-2589	$NE\frac{1}{4}SE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-2594	$NE\frac{1}{4}$ Lot 2	Dom.
L-2646	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-2736	$SE\frac{1}{4}NE\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-1458	$S\frac{1}{2}NW\frac{1}{4}$	Irr.—
L-2891	$S\frac{1}{2}$ Lot 1	Dom.
L-3183	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	Irr Not
L-3747	$E\frac{1}{2}NW\frac{1}{4}$ (over)	Dom.
L-3760	$NE\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-3829	$SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-3865	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-3879	$NE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-3880	$NE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-3881	$E\frac{1}{2}NW\frac{1}{4}$	Dom.
L-3897	$E\frac{1}{2}NW\frac{1}{4}$	Dom.
L-4061	$E\frac{1}{2}NW\frac{1}{4}$	Dom.
L-4063	$SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4078	$S\frac{1}{2}NE\frac{1}{4}$	Dom.
L-4114	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4141	$N\frac{1}{2}NW\frac{1}{4}$	Dom.
L-4204	$NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4203	$NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4202	$NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4215	$NE\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Dom.

#3

Section 5 Township 19 South Range 38 East

L-4387	$SE\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-4423	$NE\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	Ind. & Comm.
L-4528		Dom.
L-4612	$SE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4657	$NE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4758	$NW\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4867	$SE\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-5117	$SW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-5166	$NW\frac{1}{4}$	Dom.
L-5304	$NE\frac{1}{4}$	Dom.
L-5452	$SE\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-5474	$NW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-5560	$NE\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-5687	$SE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.

L-5777	$SW\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	5-19-38	Dom.
L-5989	$S\frac{1}{2}SE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	5-19-38	Oil
L-6162	$SE\frac{1}{4}NE\frac{1}{4}$	5-19-38	Dom
L-6287	$SE\frac{1}{4}NE\frac{1}{4}$	5-19-38	Dom
L-6308	$NE\frac{1}{4}NW\frac{1}{4}$	5-19-38	Dom
L-6309	$SE\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	5-19-38	Dom
L-6718	NW Cor.	5-19-38	Dom
L-6747	$SE\frac{1}{4}NW\frac{1}{4}$	5-19-38	Dom
L-6806	$SE\frac{1}{4}NE\frac{1}{4}$	5-19-38	Dom.
L-6938	$SE\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	5-19-38	Dom.
L-7043	$NW\frac{1}{4}$	5-19-38	Dom.
L-7104	$NE\frac{1}{4}$	5-19-38	Dom.
L-7207	$SW\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	5-19-38	Dom.
L-7247	$NW\frac{1}{4}NE\frac{1}{4}$	5-19-38	Dom.
L-7393	$SE\frac{1}{4}NW\frac{1}{4}$	5-19=38	Dom.

SECTION 5 TOWNSHIP 19 South RANGE 38 East

#4

L-7467	$SE\frac{1}{4}SE\frac{1}{4}$	Dom & Stk.
L-7537	$SE\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	
L-7538	$SW\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	
L-7539	$SW\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	
L-7608	$NE\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-7625	$NW\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-7782	$NW\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	DOM
L-7856	$NE\frac{1}{4}SW\frac{1}{4}$	DOM
L-7888	$SE\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	DOM
L-8037	$SE\frac{1}{4}NW\frac{1}{4}$	DOM
L-8183	$NE\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	DTC
L-8235	$NW\frac{1}{4}$	DOM & DTC
L-8649	$NE\frac{1}{4}$	DOM

Section 6	Township 19 South	Range 39 East
L-1098	$N\frac{1}{2}NE\frac{1}{4}NW\frac{1}{4}$	20 ac.
L-2438	$N\frac{1}{2}NE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-1098-B	$W\frac{1}{2}NE\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$, $E\frac{1}{2}NW\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$ and $E\frac{1}{2}W\frac{1}{2}NW\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	$12\frac{1}{2}$ ac.
L-3429	$NW\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-2534	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-3717	$N\frac{1}{2}N\frac{1}{2}NE\frac{1}{4}$	Irr.
L-3710	$NW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	Dom.
L-3931	$E\frac{1}{2}NE\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4322	~~$SE\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$~~ $NW\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4398	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4426.	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4890	$W\frac{1}{2}N\frac{1}{2}$	Dom.
L-5228	$NE\frac{1}{4}NW\frac{1}{4}$	Irr.
L-4509	$NW\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}$	Dom

L-5890	$SW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-6062	$SW\frac{1}{4}NW\frac{1}{4}$	dom.
L-6089		dom & stk.
L-6114	$NW\frac{1}{4}$	Dom.
L-6217	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Domestic
L-4322-Enlgd	$NW\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$	Irr.
L-6495	$SE\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$	Dom
L-4322-S	Wildhorse $S\frac{1}{2}NW\frac{1}{4}$	Irrigation
L-7154	$N\frac{1}{2}SW\frac{1}{4}NE\frac{1}{4}$	Domestic
L-7268	$SW\frac{1}{4}$	Comm
L-7268-S	$SE\frac{1}{4}$	Comm

Section 6	Township 19 South	Range 38 East
L-2887	$SE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-4033	$NE\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	OWD
L-4426	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.
L-4868	$SE\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	Dom.
L-6345	$NE\frac{1}{4}$	Dom & Stk.

Section 7	Township 19 South	Range 38 East
L-4208	$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	Dom.

Section 8	Township 19 South	Range 38 East
L-4138	$NE\frac{1}{4}NE\frac{1}{4}SE\frac{1}{4}$	OWD

Section 9	Township 19 South	Range 38 East
L-2411	$NE\frac{1}{4}NE\frac{1}{4}$	OWD
L-6517	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Dom & Stk
L-269 & Enl.	Pt. $NW\frac{1}{4}$	Irr.
L-7242	$NE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$	Drink & Sa r

Section 10	Township 19 South	Ra[illegible] 38 East
L-532	$SE\frac{1}{4}SE\frac{1}{4}NW\frac{1}{4}$	Irr.
L-3181	$NE\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$	OWD
L-1292		Dom.
L-2002		Irr. Not
L-3342	$NE\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Dom.
L-2262		Irr. MTU
L-2640	Center $NW\frac{1}{4}SW\frac{1}{4}$	OWD
L-5677	~~$NE\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$~~	Irr.
L-6454	$SW\frac{1}{4}SE\frac{1}{4}$	Dom & Stk
L-6751	$SW\frac{1}{4}SE\frac{1}{4}NW\frac{1}{4}$	Stock
L-7238	$NE\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$	Dom & Stk
L-5677	$NW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$	Irr.
L-532-S	$NW\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$	Irr.
L-8167	$NE\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$	DTC.
	(overy)	

L-8375	$SW\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$	DOM

Section 11	Township 19 South	Range 38 East
L-3467	$NW\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$	Dom.
L-6196	$SE\frac{1}{4}NE\frac{1}{4}$	Dom & Stk
L-7817	$SW\frac{1}{4}NW\frac{1}{4}$	DOM
L-8422	$SW\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}$	DTC
L-8740	$W\frac{1}{2}NW\frac{1}{4}$	DTC
L-7817 is renumbered L-5677-A		
L-5677-A	$SW\frac{1}{4}NW\frac{1}{4}$	MUN

UNICHEM
INTERNATIONAL

Home Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

September 20, 1982

Mr. Joe Ramey
Energy and Minerals Department
Oil Conservation Division

RE: Brine Well Discharge Plan
Truckers Water Co. Brine Well #2
Sec. 33-T18S-R38E
Lea County, New Mexico

Dear Sir:

Attached herewith, please find schematic drawings of our brine producing facility in the captioned location.

In explanation of the schematics, fresh water is pumped from the city line, down the 5 1/2" casing, through perforations at 2060 feet into the salt cavity at a pressure of 325#. Brine water is returned to the surface from the perforations at 2400, where it is stored in a plastic lined 11,000 barrel pit. The system is monitored functionally on a daily basis. Water quality is monitored as the need arises, and/or usually on a monthly basis. Quantity of production varies with demand. The demand over the past two years has been extremely large, and was metered at 370,000 barrels.

The surface storage facility was constructed in accordance to oil conservation commission specifications. The monitor sump is checked daily to insure against lining failure. The loading platform is designed to catch any overflow from trucks being loaded.

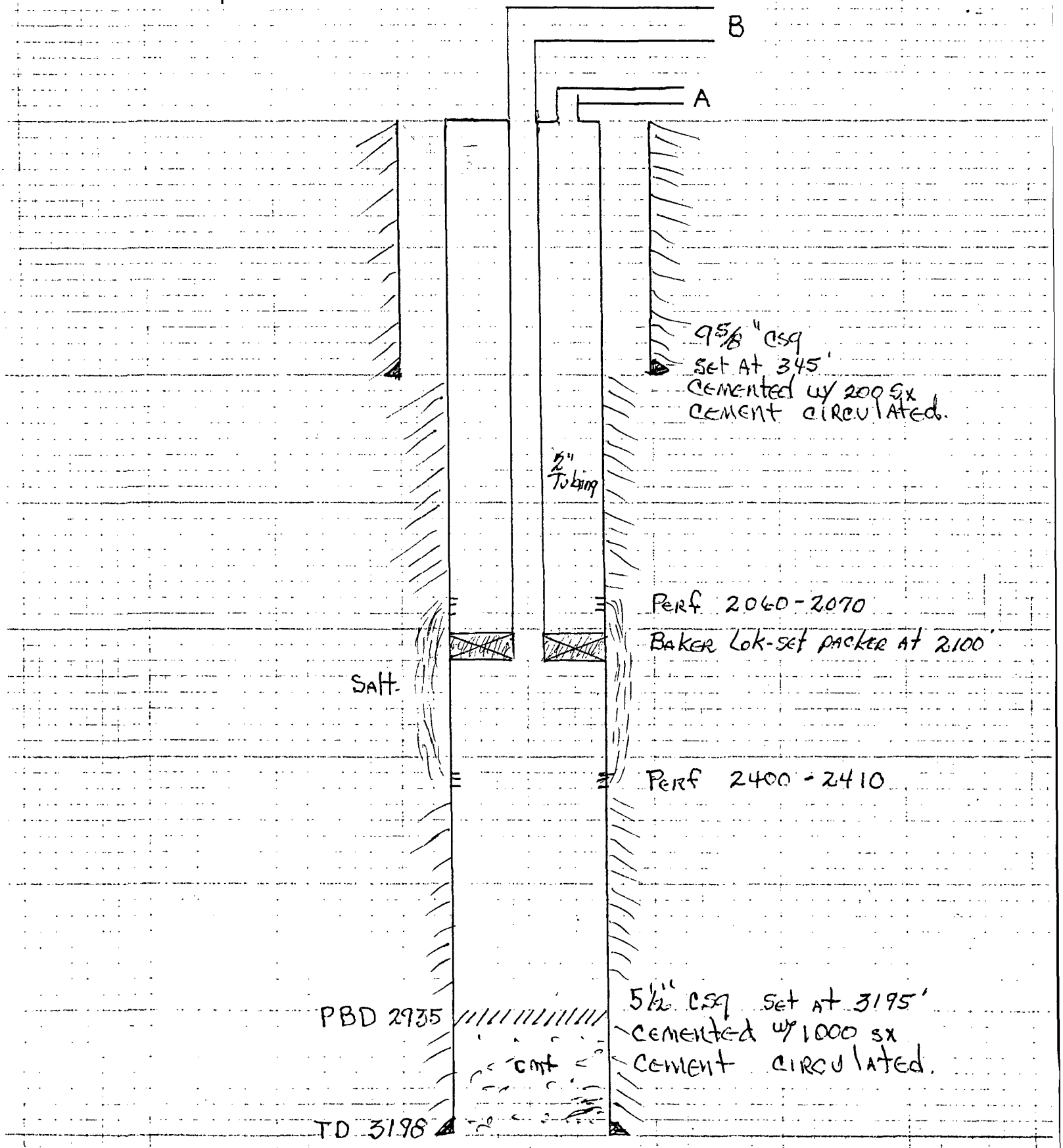
The ground water that could possibly be contaminated would be the ogalalla aquifer at an estimated 60 feet. To our knowledge there are no wells being produced from the aquifer in the immediate area. However, there are no doubt many wells that have been drilled to the ogalalla in the area that are no longer in use, and probably have never been suitably plugged.

We trust this meets your requirements for a suitable discharge plan and meets with your approval.

Very truly yours,

UNICHEM INTERNATIONAL INC.

Unichem International
Truckers Water Co.
Brine Well #2
Unit "K" T33-18S-R38E
Originally Conoco A 33-10



Pit prepared and inspected in accordance to New Mexico Oil Conservation Commission Specifications

UNICHEM
INTERNATIONAL

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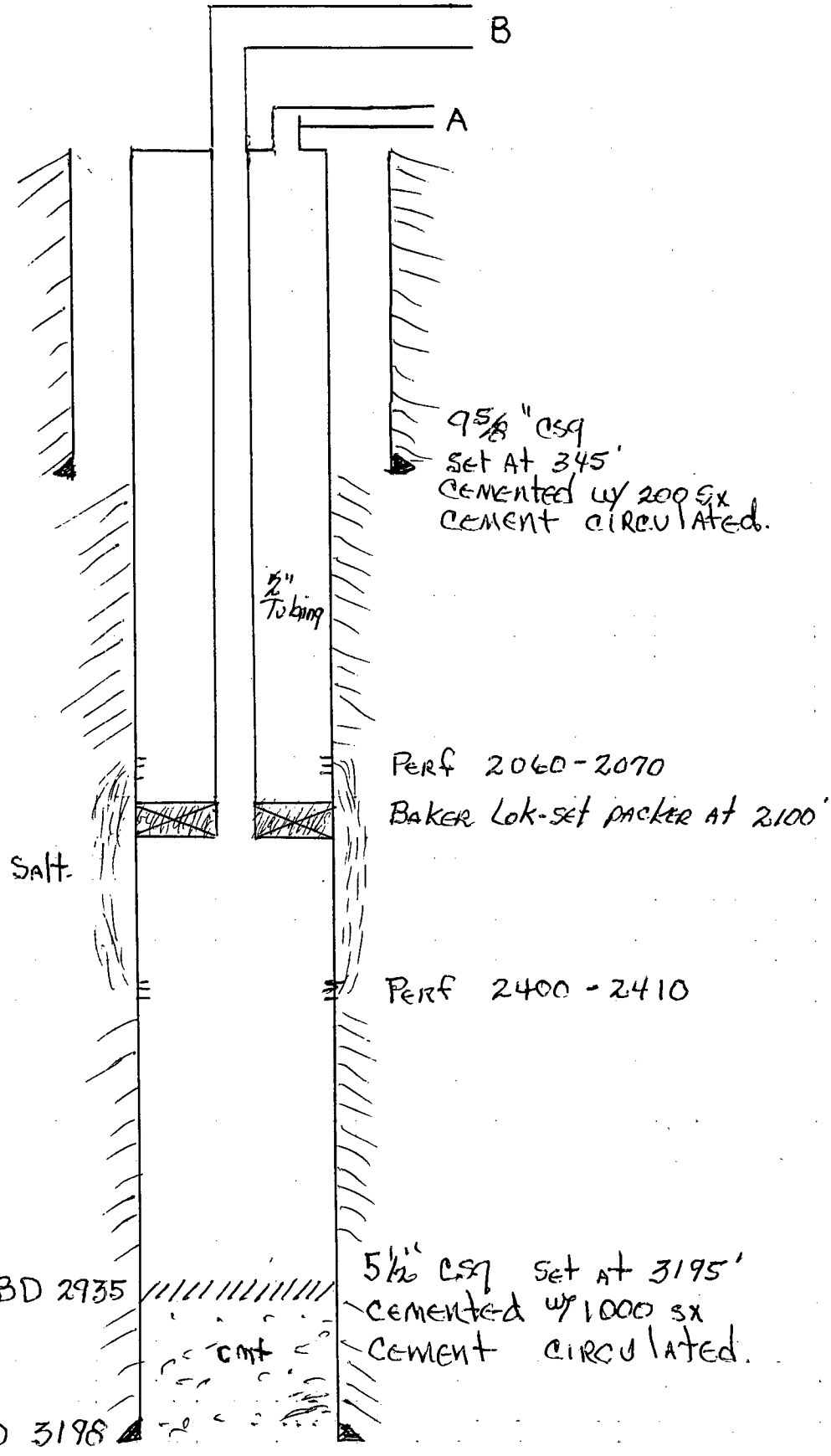
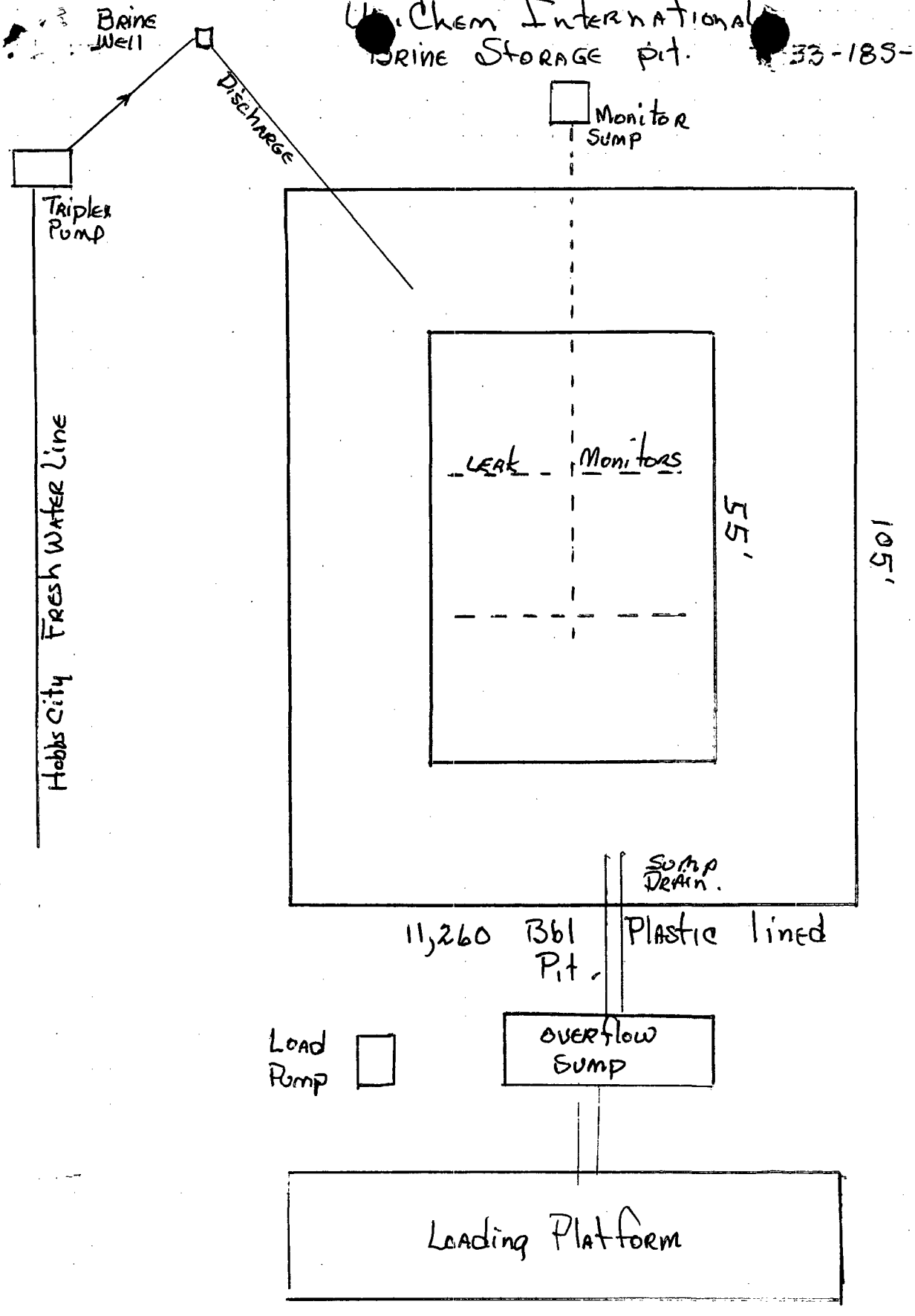


Uni-Chem International
Brine Storage pit. 33-18S-38E



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