

P.O. BOX 636
HOBBS, NEW MEXICO 88240
OFFICE (505) 392-1915

PEAK
CONSULTING SERVICES
ENVIRONMENTAL,
GEOLOGICAL & REGULATORY
SPECIALISTS

Oil Conservation Division
February 19 1992



PCS

February 21, 1992

Mr. David Catanach
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Re: Unichem International Inc.
SWD Application
RA State No. 1
Sec. 31 - T18S - R36E
Lea County, New Mexico

Dear David:

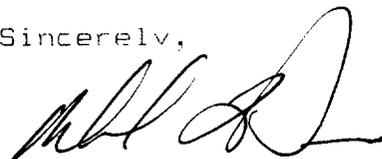
Please find enclosed two copies of Unichem International Inc.'s SWD application. We propose to dispose of produced water in the open hole section of the RA State No. 1 well. The well has 8 5/8" csg set at 4600', and circulated to surface. The TD of the well is 12,415' in the Devonian. It is anticipated that the Devonian will be on a vacuum and that fluid level will never be high enough for the other sections to take water.

When we rig up on this well we will test the integrity of the 8 5/8" csg before drilling out the shoe plug. All perforations currently open will be squeezed and tested.

We would like to clean out the open hole section to the first plug at 6425', and conduct an injectivity test on this section (4600 - 6425) to determine if it necessary to continue on to the Devonian. If this interval will take fluid in sufficient volumes and at low enough pressure, we would like the option to stop here. We request that the remainder of the open hole section be permitted, so that we may continue the re-entry operations, and complete the well as a Devonian SWD well.

If you have any questions or if I can be of any assistance,
please let me know. Thank you for your time and cooperation.

Sincerely,

A handwritten signature in black ink, appearing to read 'M. L. Pierce', with a stylized flourish at the end.

Michael L. Pierce
Peak Consulting Services

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? yes no
- II. Operator: UNICHEM INTERNATIONAL INC.
Address: 707 N. Leech Hobbs, New Mexico
Contact party: M. Pierce (PEAK CONSULTING SERVICES) Phone: 505-392-1915
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? yes no
If yes, give the Division order number authorizing the project NA.
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- * VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Michael L. Pierce Title Consultant

Signature: _____ Date: _____

- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. Logs previously submitted by Shell Oil Company.

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

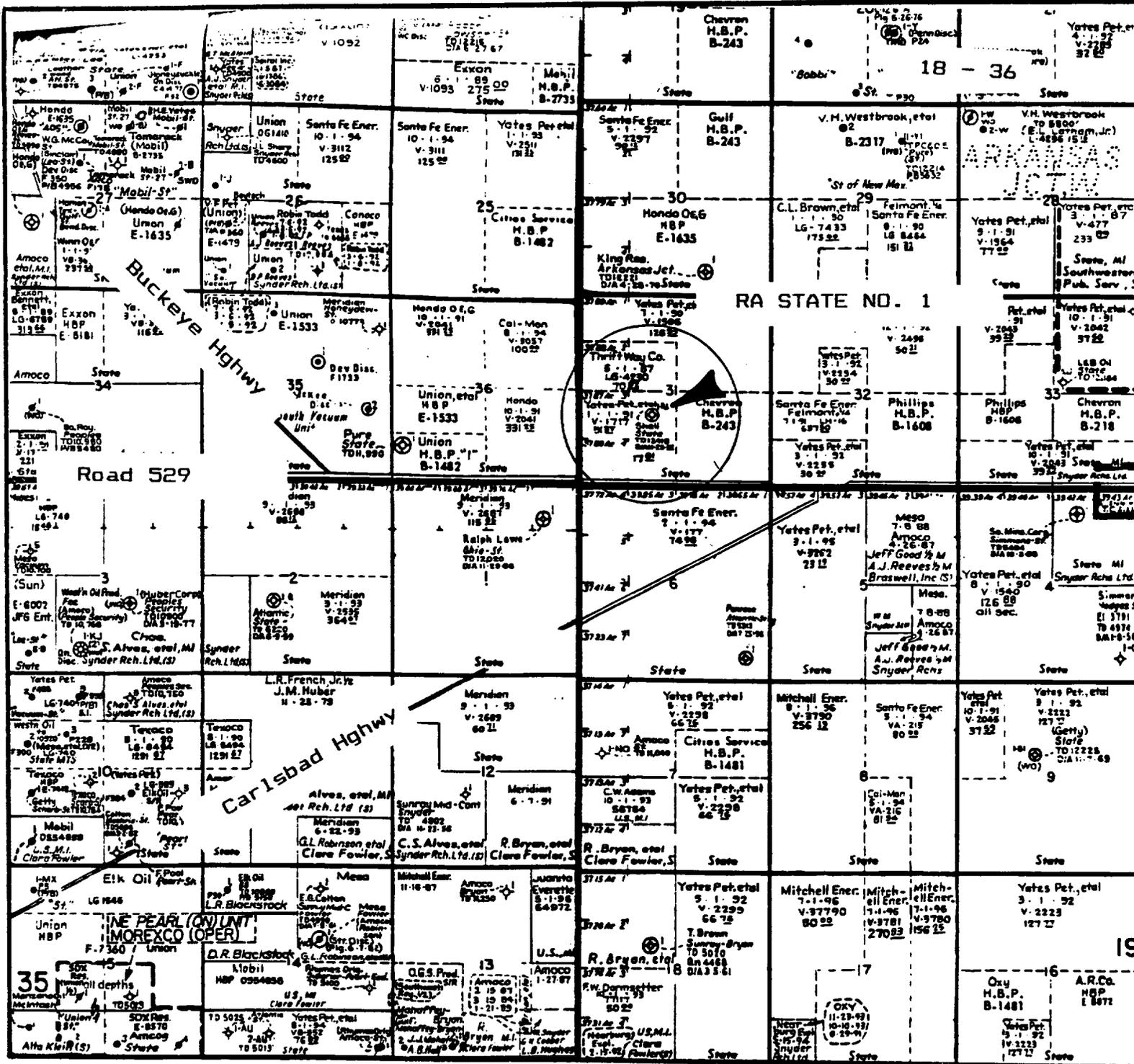
All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.



UNION CHEMICAL INTERNATIONAL INC.
 RA STATE NO. 1
 31 - T18S - R36E
 LEA COUNTY, NEW MEXICO

FORM C - 108 cont.

Part III. A

- 1.) RA State No. 1
1980' FSL and 1980' FWL
Sec. 31 - T18S - R36E
Unit K
Lea County, New Mexico
- 2.) See attached wellbore schematic.
- 3.) Propose to run approximately 4550' of 2 7/8" plastic lined tubing.
- 4.) Propose to use a Tension Packer as a seal, and load the casing annulus with inhibited fluid.

Part III. B

- 1.) The injection formation is the Devonian, and the well is not located in a field.
- 2.) The injection interval will be the Devonian and possibly the Wolfcamp, and is open hole. The open hole section also includes the Delaware, Bone Spring, Pennsylvanian, and Mississippian sections. From log data, the only sections that look like it will take fluid on a vacuum is the Wolfcamp and Devonian.
- 3.) This well was originally drilled as an oil well.
- 4.) See wellbore schematic
- 5.) There is no deeper oil horizon in the area. There is no production in the area.

Part VII.

- 1.) Proposed average daily injection will be 3500 bbls/ day. Maximum will be 10000 bbls./ day.
- 2.) The system will be closed.
- 3.) The average injection pressure will be 0(Vacuum). The maximum will not exceed the limits set forth by the OGD.

- 4.) The source of the water will vary, but will be from leases from the surrounding area.
- 5.) There are no productive wells in any formation within one mile of the RA State No. 1 well.

Part VIII

The injection interval is the Devonian Formation, and is composed of Limestone and porous Dolomite. The top of the Devonian is at approximately 12370(-8525). This entire area is overlain by the Quaternary Alluvium and Caliche. The Ogallala at 150' to 300' below surface is the major source of fresh water in the area. The Santa Rosa at approximately 1400' below surface has TDS of less than 10,000 PPM. There are no fresh water zones below the Devonian.

Part IX

The disposal interval will be treated with a 5000 to 7500 gallon acid job.

Part X

The logs were previously submitted by Shell Oil Company.

Part XI

There are two active fresh water wells within one mile of the RA State No. 1 location. The chemical analysis for these wells are attached.

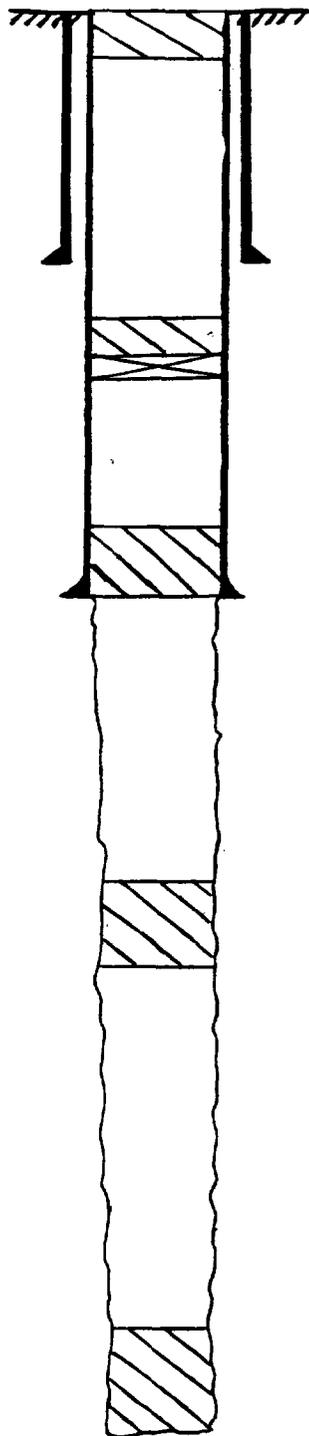
Part XII

We have examined all available geologic and engineering data, and find no evidence of open faults or any other hydrologic connection between the disposal interval and any underground source of drinking water.

OPERATOR C.W. TRAINER (originally Shell Oil Company)		DATE 1-7-92
LEASE RA STATE	WELL No. 1	LOCATION sec 31-T18S-R36E unit K

1980' FSL & 1980' FVL
Lea County, New Mexico

STATUS: P&A



10 sack plug set at surface

13 3/8 csg set at 352' cmtd w/ 300 sxs circulated
17 1/4 hole

35 sack plug set from 1850 to 1950

set CIRP at 3650 + 35' cmt
perf 3670 to 3714 a/ 2000 gal

perf 4432 to 4458 treat w/ 10000 # snd and 10000 gal oil

8 5/8 " casing set at 4600 ' with 3000 sx of _____ cement

Hole size 11 " circulated

50 sack plug set from 4435 to 4600

70 sack plug set from 6425 to 6700

60 sack plug set from 12265 to 12415

NO PRODUCTION CASING SET

_____ " casing set at _____ ' with _____ sx of _____ cement

Total Depth 12415 ' Hole size 7 7/8 "

Part VI:

Tabulation of Well Data

RA State No. 1

sec. 31 - T18E - R36E

1980' FSL & 1980' FWL

Unit K

Drilled by Shell Oil Company in 1952

13 3/8 csg set at 352' w/ 300 sxs cmt circ.

8 5/8 csg set at 4600' w/ 3000 sxs cmt circ.

Drilled 7 7/8 hole to 12,415' TD

P&A 1952

60 sx plug @ 12,415 top of plug @ 12,266'

70 sx plug @ 6700' top of plug @ 6319. dressed to 6425

50 sxs @ 8 5/8 csg shoe 4600' - 4435'

15 sxs @ surface

perf 4432 - 4458

set CIBP @ 4400'

perf 3670 - 3714

set CIBP @ 3650 + 35 sxs cmt

35 sxs @ 1950 to 1850

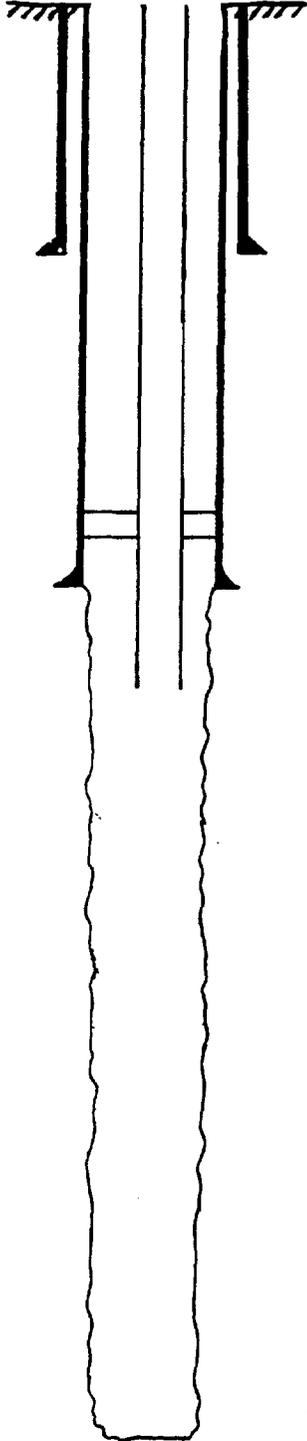
10 sxs @ surface

P&A

OPERATOR C.W. TRAINER (originally Shell Oil Company)		DATE 1-7-92
LEASE RA STATE	WELL No. 1	LOCATION sec 31-T18S-R31E unit K

1980' FSL & 1980' FVL
Lea County, New Mexico

PROPOSED



13 3/8 csg set at 352' cmtd w/ 300 sxs circulated
17 1/4 hole

2 7/8 plastic coated tubing set at 4550' w/ tension
packer. Annulus loaded w/ inhibited fluid.
Run approximately 90' of tailpipe.

8 5/8" casing set at 4600' with 3000 sx of _____ cement

Hole size 11" circ.

_____ " casing set at _____' with _____ sx of _____ cement

Total Depth 12415' Hole size 7 7/8"

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES
MIDLAND DIVISION
HOBBS, NEW MEXICO 88240

LABORATORY REPORT

No. 27

To Unichem

Date Jan. 27, 1992

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person of concern and employees thereof receiving such report from Halliburton Company.

Submitted by Unichem Date Rec. Jan. 27 1992

Well No. see below Depth _____ Formation _____

County Lea Field _____ Source Windmills

Submitted samples for chloride content

windmill 1/2 mile Northwest of R.A. State #1
Chlorides-----67 mp1

windmill 3/4 mi1 Southeast of R.A. State #1
Chlorides-----62 mp1

Respectfully submitted,

Analyst: J. E. BANK
cc:

HALLIBURTON COMPANY

By _____
CHEMIST

NOTICE

THIS REPORT IS LIMITED TO THE DESCRIBED SAMPLE TESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON COMPANY IS NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER CAUSED BY NEGLIGENCE OR OTHERWISE, IN CONNECTION WITH THIS REPORT.

P 365 085 266
RECEIPT FOR CERTIFIED MAIL

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

US G.P.O. 1989-234-555
 PS Form 3800, June 1985

Sent to NM STATE LAND office	
Street and No. PO BOX 1148	
P.O. State and ZIP Code SANTA Fe NM 87504-1148	
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	\$ 1.75
Postmark or Date	

P 365 085 191
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
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 (See Reverse)

US G.P.O. 1989-234-555
 PS Form 3800, June 1985

Sent to CHEVRON USA Inc	
Street and No. PO BOX 1150	
P.O. State and ZIP Code Midland, TX 79702	
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	\$ 1.75
Postmark or Date	

P 365 085 330
RECEIPT FOR CERTIFIED MAIL

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

US G.P.O. 1989-234-555
 PS Form 3800, June 1985

Sent to Cal-Mon Oil Co	
Street and No. PO BOX 2066	
P.O. State and ZIP Code Midland, TX 79702	
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	\$ 1.75
Postmark or Date	

P 365 084 745
RECEIPT FOR CERTIFIED MAIL

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

US G.P.O. 1989-234-555
 PS Form 3800, June 1985

Sent to Snyder Ranch Inc	
Street and No. P.O. Box 726	
P.O. State and ZIP Code Covington, NM 88260	
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	\$ 1.75
Postmark or Date	

Draw a line over top of envelope to the right of the return address

P 365 084 546

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
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 (See Reverse)

Sent to Santa Fe Energy Operations	
Street and No. 550 West Texas Ste 1330	
P.O. State and ZIP Code Midland, TX 79701	
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	\$ 1.75
Postmark or Date	





STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

RECEIVED
FEB 24 11 09 31

2-24-92

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

BRUCE KING
GOVERNOR

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

- MC _____
- DHC _____
- NSL _____
- NSP _____
- SWD _____
- WFX _____
- PMX _____

Gentlemen:

I have examined the application for the:

Unichem International Inc. State Ra #1-K 31-18-36
 Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows: *(Formerly C W Drainer RA State #1)*

DA

Yours very truly,

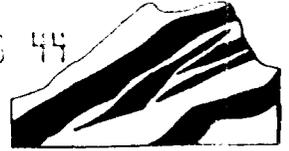
Jerry Sexton
Supervisor, District 1

/ed

P.O. BOX 636
HOBBS, NEW MEXICO 88240
OFFICE (505) 392-1915

PEAK
CONSULTING SERVICES
ENVIRONMENTAL,
GEOLOGICAL & REGULATORY
SPECIALISTS

OIL CONSERVATION DIVISION
P.O. BOX 2088
SANTA FE, NM 87504



PCS

March 2, 1992

Mr. David Catanach
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Re: Unichem International Inc.
R.A. State No. 1
SWD Application
Sec. 31 - T18S - R36E
Lea County, New Mexico

Dear David:

Please find enclosed two copies of the proof of publication for the above captioned well. Also enclosed is a new certified receipt for Synder Ranch. The address I got from the State Land Office was incorrect. Please let me know if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Michael L. Pierce', written in a cursive style.

Michael L. Pierce
Peak Consulting Services

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, _____

Kathi Bearden

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period

of _____

One weeks.
Beginning with the issue dated

Feb. 24, 1992
and ending with the issue dated

Feb. 24, 1992

Kathi Bearden
General Manager

Sworn and subscribed to before

me this 23 day of

February, 1992

Paula ...
Notary Public.

My Commission expires _____

Aug. 5, 1995

(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

LEGAL NOTICE
February 24, 1992
UNICHEM INTERNATIONAL INC., whose address is 707 N. Leach HOBBS, NEW MEXICO 88240, proposes to convert

the following well for the purpose of disposing produced water from oil and gas production.

The well is the RA State No. 1 located at 1980' FSL and 1980' FWL of Sec. 31 - T18S - R36E, unit K, Lea County New Mexico. The injection interval is 4,600' - 12,415'. The maximum injection rate will be 10000 bbls/day, with 0 pressure.

Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, within 15 days.

Inquiries regarding this application should be directed to M. Pierce at PEAK CONSULTING SERVICES, P.O. Box 636, Hobbs, New Mexico 88240, (505) 392-1915.

P 365 084 951

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

U.S.G.P.O. 1989-234-555

PS Form 3800, June 1985

Send to	Snyder Ranches Inc
Street and No.	PO Box 2158
P.O. State and ZIP Code	Hobbs New Mexico 88200
Postage	1 \$.75
Certified Fee	1.00
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	\$ 1.75
Postmark or Date	