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

PEAK CONSULTING SERVICES ENVIRONMENTAL, **GEOLOGICAL & REGULATORY** SPECIALISTS

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DIVISION



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

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Sincerelv,

Michael L. Pierce Peak Consulting Services

#### APPLICATION FOR AUTHORIZATION TO INJECT

Ι.	Purpose: Applicat	Secondary Recovery Pressure Maintenance X Disposal Storage tion qualifies for administrative approval? X yes no
11.	Operator:	UNICHEM INTERNATIONAL INC.
	Address:	707 N. Leech Hobbs, New Mexico
	Contact par	ty: M. Pierce (PEAK CONSULTING SERVICES) Phone: 505-392-1915
111.	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 If yes, giv	expansion of an existing project?  yes  no ve the Division order number authorizing the project <u>NA</u> .

- ۷. 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.
- Attach a tabulation of data on all wells of public record within the area of review which VI. 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.
  - Attach data on the proposed operation, including: VII.
    - Proposed average and maximum daily rate and volume of fluids to be injected;

    - Whether the system is open or closed;
       Proposed average and maximum injection pressure;
       Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
    - 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.
  - Attach appropriate logging and test data on the well. (If well logs have been filed Χ. with the Division they need not be resubmitted.)
- Attach a chemical analysis of fresh water from two or more fresh water wells (if XI. available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
  - Applicants for disposal wells must make an affirmative statement that they have XII. 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.
- Applicants must complete the "Proof of Notice" section on the reverse side of this form. XIII.
- 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
Signat	ture:	_ 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.

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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 lessehold 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.

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UNICHEM INTERNATIONAL INC. RA STATE NO. 1 31 - T185 - R36E LEA COUNTY, NEW MEXICO FORM C - 108 cont.

Part III. A

- 1.) RA State No. 1 1980' FSL and 1980' FWL Sec. 31 - T185 - 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.

- 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 O(Vacuum). The maximum will not exceed the limits set forth by the OCD.

- 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 Ogalalla 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.

	originally Shell Oil Company) DATE 1-7-92
RA STATE	WELL NA LOCATION 1 sec 31-T18S-R36E unit K
	1980' FSL & 1980' FVL Los County New Marias
	Lea County, New Mexico STATUS: P&A
	777
	10 sack plug set at surface
<b>J</b>    L	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 CIBP at 3650 + 35' cmt perf 3670 to 3714 a/ 2000 gal
	perf 4432 to 4458 treat w/ 10000 # snd and 10000 gal oil
	<u>8 5/8</u> " casing set at <u>4600</u> ' with <u>3000</u> sx of ceme
7 7	Hole size 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 cer

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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

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(Sun) E-G007 JFG Err. Store Store Store Care States Store	BATTER ST Storte Storte Storte 1 Shorte 12 Maridian Sorte 12 Maridian Storte 12 Maridian 6-7-91 TOT alog Maridian 6-7-91 Maridian 6-7-91 Maridian 6-7-91 Maridian 6-7-91 Maridian 6-7-91 Maridian 6-7-91 Maridian 6-7-91 Maridian 6-7-91 Maridian 6-7-91 Maridian 6-7-91 Maridian 10 Suproter Reh. 170 (Claw Fourlas, Stall Suproter Reh. 170 (Claw Fourlas, Stall Suproter Reh. 170 (Claw Fourlas, Stall 10 Stall Stall Suproter Reh. 170 (Claw Fourlas, Stall Stall Stall Stall Stall Suproter Reh. 170 (Claw Fourlas, Stall S	37 21 Ar P   Arrows Frances     37 21 Ar P   Arrows Frances     37 21 Ar P   State     37 22 Ar P   State     37 24 Ar P   State </td <td>23 12     J. Reverses h.M.       Broswell.inc S1     Mesa.       Broswell.inc S1     Mesa.       Snywell.inc S1     Mesa.       Jeff See n.M.     Ancco.       Jeff See n.M.     A.J. Reverse h.M.       Snyder Rens     Snyder Rens       Witchell Ener.     Sarto Fe Ener.       V. 1.750     Sarto Fe Ener.       V. 1.750     YA - 215       BO 22     VA - 215       Bo 25     VA - 215       Bo 25     Sarto Fe Ener.       V. 3.750     YA - 215       Bo 25     Sarto Fe Ener.       Sarto Fe Ener.     Sarto Fe Ener.       VA - 215     BO 25       Bo 25     Sarto Fe Ener.       Sarto Fe Ener.     Sarto Fe Ener.       Sarto Fe Ener.     Sarto Fe Ener.       Sarto El Ener.     <td< td=""><td>Yotes Pet, etal   Saver Avia     8 v 15.300   Saver Avia Litz     9 v 15.300   Simmer     126 00   Simmer     011 9ec.   IIII     9 viss   IIIII     9 viss   IIIIII     9 viss   IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</td></td<></td>	23 12     J. Reverses h.M.       Broswell.inc S1     Mesa.       Broswell.inc S1     Mesa.       Snywell.inc S1     Mesa.       Jeff See n.M.     Ancco.       Jeff See n.M.     A.J. Reverse h.M.       Snyder Rens     Snyder Rens       Witchell Ener.     Sarto Fe Ener.       V. 1.750     Sarto Fe Ener.       V. 1.750     YA - 215       BO 22     VA - 215       Bo 25     VA - 215       Bo 25     Sarto Fe Ener.       V. 3.750     YA - 215       Bo 25     Sarto Fe Ener.       Sarto Fe Ener.     Sarto Fe Ener.       VA - 215     BO 25       Bo 25     Sarto Fe Ener.       Sarto Fe Ener.     Sarto Fe Ener.       Sarto Fe Ener.     Sarto Fe Ener.       Sarto El Ener. <td< td=""><td>Yotes Pet, etal   Saver Avia     8 v 15.300   Saver Avia Litz     9 v 15.300   Simmer     126 00   Simmer     011 9ec.   IIII     9 viss   IIIII     9 viss   IIIIII     9 viss   IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</td></td<>	Yotes Pet, etal   Saver Avia     8 v 15.300   Saver Avia Litz     9 v 15.300   Simmer     126 00   Simmer     011 9ec.   IIII     9 viss   IIIII     9 viss   IIIIII     9 viss   IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
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(Sun) Wertie Gefred, foruber Corres Je 6007 Je 6007 J	Stores Stores	37.01 & 21   Armon     37.02 & 7   Siete     37.03 & 7   Siete	23 12   A. J. Reverses h.M.     Broswell. Inc S1     Mesa.     Snywell.     J. Freevesh.M.     Snywell.     J. Jeff Seven.M.     A. J. Reversh.M.     Snywell.     J. Jeff Seven.M.     Snywell.     Snyme     Snyme     Snyme     Snyme     Mitchell Ener.     Samme     Snyme     Snyme     Mitchell Ener.     Samme     Samme     Samme     Samme     Mitchell Ener.     Samme     Samme     Mitchell Ener.     Samme     Mitchell Ener.     Samme     Samme <td>Yotes Pet, etcl 8 v 15.30 126 08 cili Sec. Yates Pet, etcl 5 v 15.40 126 08 cili Sec. Yates Pet, etcl 5 v 15.32 1 v 100 5 v 15.32 1 v 100 5 v 100 5 v 100 1 v 1</td>	Yotes Pet, etcl 8 v 15.30 126 08 cili Sec. Yates Pet, etcl 5 v 15.40 126 08 cili Sec. Yates Pet, etcl 5 v 15.32 1 v 100 5 v 15.32 1 v 100 5 v 100 5 v 100 1 v 1
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UNICHEM INTERNATIONAL INC. RA STATE NO. 1 31 - T185 - R36E LEA COUNTY, NEW MEXICO

	HALLIBURTON DIVIS HALLIBURTON MIDLAND ( HOBBS, NEW M	i services División			
	LABORATOR	Y REPORT	No	27	
To	÷	Date_	Jan.	27,	1992
		it nor any part there	of nor a c irst securi ment: it i hese opera	popy there ng the ex may how itions by a	press written approval iver, be used in the any person of concern
Submitted by Unichem		Date Re	cJa	<u>n. 2</u> 7	1992
Well No. see below					
CountyLea	Field	Source_	Wind	mills	
Submitted samples for c	hloride content				

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

windmill 3/4 min1 Southeast of R.A. State #1 Chlorides----62 mp1

Respectfully submitted,

WEUSANK Analyst:\_ CC:

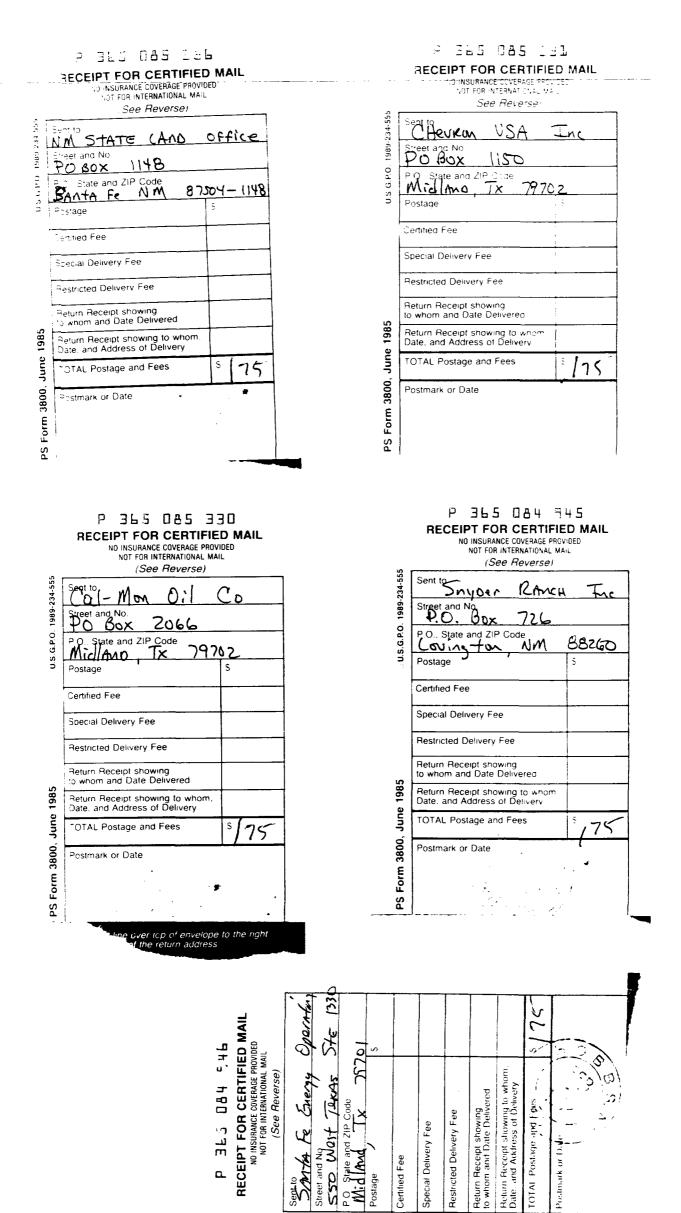
HALLIBURTON COMPANY

Ву.\_\_

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STATE OF NEW MEXICO



# ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

2-24-92

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RE: Proposed:

MC		
DHC		
NSL		<u> </u>
NSP		·····
SWD	X	
WFX		
PMX <sup>-</sup>		

Gentlemen:

I have examined the application for the:

Unichem International Ing State Ra #1-K 31-18-36 Operator Lease & Well No. Unit S-T-R and my recommendations are as follows: (Farmerly C W. Indinen fA State #1) D

Yours very truly, Jerry Sexton

Supervisor, District 1

/ed

二人 伊拉岛诊律 St. CSNSEL PEAK . . CONSULTING SERVICES AND IN THE S 44 ENVIRONMENTAL, GEOLOGICAL & REGULATORY SPECIALISTS PCS

March 2, 1992

Mr. David Catanach Dil 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.

Michael L. Pierce Peak Consulting Services

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

#### AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

# 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\_\_\_\_

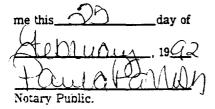
Ι.

One weeks. Beginning with the issue dated

Feb. 24, 19.92 and ending with the issue dated

19\_92 Feb 24 General Manager

Sworn and subscribed to before



My Commission expires\_\_\_\_\_

, <sub>19</sub>95 Aug. 5 (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 INTERNA-TIONAL INC., whose address is 707 N. Leech 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

The well is the RA State No. 1 located at 1980' FSL and 1980' FWL of Sec. 31 T185 - 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

interested parties musifile objections or requests for hearing with the Oil Conservation Division, P.O. Box 2008, 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.

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	RECEIPT FOR CERTIFIE NO INSURANCE COVERAGE PROV NOT FOR INTERNATIONAL MA (See Reverse)	IDED
89-234-555	Street and No.	Hes Tre
≿ U.S.G.P.O. 1989-234-555	PO BOX 2158 PO. State and ZIP Opde Hobbs New N Postage	Prico 2820
ά	Certified Fee	1.00
	Special Delivery Fee Restricted Delivery Fee	
	Return Receipt showing to whom and Date Delivered	
1985	Return Receipt showing to whom, Date, and Address of Delivery	
June	TOTAL Postage and Fees	\$1.75
PS Form 3800, June 1985	Postmark or Date	
<b>~</b>	<b>J</b> .	

(a)

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