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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

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:
Hal J Rasmusson Operating Eaves A 2-M P-26-37 Operator Lease & Hell No. Unit S-T-R
and my recommendations are as follows:
Yours very truly, erry Sexton
Supervisor, District 1

OIL CONSERVATION DIVISION POST OFFICE BOX 2008 FTATE LUNG OFFICE BUILDING FUNTA FE, NEW MEXICO 87501

FORM C-108 Revised 7-1-81

APPLIC	ATION FOR AUTHORIZATION TO INJECT
I.	Purpose: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Xyes no
II.	Operator: Hal J. Rasmussen Operating
	Address: 310 W. Wall; Suite 906; Midland, Texas 79701
	Contact party: Tyson Dunn Phone: (915) 687-1664
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? $\ \ \ \ \ \ \ \ \ \ \ \ \ $
٧.	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:
	 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.
* 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: Tyson I. Dunn Title Production Engineer
	Signature: Date: 11/16/93

[•] 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.

R 4026 in 1970 and/or Admin Order Com #190 Control or Control of the carbon of the car

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.

Hal J. Rasmo	ussen Operating, Inc.	Eaves A		
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Is this	a new well drilled for for what purpose was the	well originally dri	- **	
4. Has the and giv	well ever been perforate plugging detail (sacks No other perfor	or tement or or solve	e(a)? tist all such p e plug(s) used)	perforated interv
5. Give th	e depth to and name of a	any overlying and/or	underlyimy oil or gas	zones (pools) ;
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Wells in Area of Review Application for Authorization to Inject Hal J. Rasmussen Operating, Inc.

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Eaves A-1

Section 19 T26S R37E Location: 330' FSL & 2310' FEL Date Drilled: 7/28

Type: Oil

Total Depth: 2940' Original Completion: 7/28

Casing Record:

Sacks Cement Depth Size 183' Mudded 20" 535' Mudded 16" Mudded 10 3/4" 1591' 40 2840' 8 5/8"

Completion:

OH € 2840'-2940' 7/28 11/86 TA w/CIBP @ 2820'

Eaves A #3

Location: 2310' FSL & 660' FWL Section 19 T26S R37E Date Drilled: 2/37

Type: Oil

Total Depth: 3192' Original Completion: 2/14/37

Casing Record:

Sacks Cement Depth Size 175 13" 263' 450 9-5/8" 1563' 400 7" 3087'

Completion:

3087'-3192' (OH) 2/14/37

Eaves A #5

Section 19 T26S R37E Location: 1980' FSL & 1980' FWL, Date Drilled: 2-19-49

Type: Disposal Total Depth 3220' Original Completion: 2/27/49

Casing Record: Sacks Cement Depth Size 500 7-5/8" 1228'

600 3219' 5-1/2"

Pay: 3198-3204'; 3207-3213

Completion:

Placed well on pumping unit 12/65

Perf @ 3112', 17', 25', 37', 42', 52', 65', 77' 8/71 Put Submersible pump 1/74

Perf @ 3042'-3104' 2/5/87 Perf @ 2975'-3035' 2/9/87 Perf @ 2937'-68' 2/11/87

Convert to SWD 6/87

Proposed to sqz perfs & put back on production 11/93

Eaves A #8

Section 19 T26S R37E Location: 990' FSL & 2310' FWL Date Drilled: 2/53 Type: Oil Total Depth 3228'

Original Completion: 2/15/53

Casing Record:

Sacks Cement Depth Size 440 7-5/8" 1190' 598 3223' 5-1/2"

Completion:

Perfs @ 3204'-217' 5/53

Perfs @ 2768'-96', 2810'-32', 2848'-64', 2878'-90' 6/60

Frac w/12000 gal crude & 12000 # Sand

Sqz perfs @ 2768'-2890', 3204'-217' 10/85

Perf @ 3092'-180' Perf @ 3092'-180'

11/85 Sqz perfs @ 3020'-61' 2/86

Perf @ 2992'-3010'

Proposed to install submersible pump. 11/93

Eaves A #12

Location: 660' FNL & 1980' FWL Section: 30 T26S R37E Date Drilled: 5/37 Type: Oil Total Depth 3220'

Original Completion: 6/3/37

Casing Record:

Sacks Cement Depth Size 100 261' 13" 425 1588' 9-5/8" 425 7" 3065'

Completion:

Completed OH @ 3065'-3220' 6/37

Deepened to 3245' 11/59

Set 5" liner 175' to 3219' w/25 sx

8/87 TA well

Acidize & put on pumping unit. 11/90

Eaves A #14

Section 30 T26S R37E Location: 660' FNL & 660' FWL Date Drilled: 9/60 Type: Oil Total Depth 3250'

Original Completion:10/20/60

Casing Record:

Sacks Cement Depth Size 7-5/8" 200 361' 650 3312' 4-1/2"

Completion:

Perfs @ 3186'-88', 3193'-202' 10/60

8/69

Add perfs @ 3146'-75' Set CIBP @ 3125'. PBTD @ 3100' 12-90

Perf @ 2924'-3031'

Eaves A #15

Location: 660' FSL & 2450' FEL Section 19 T26S R37E
Type: Oil Date Drilled: 12/71

Total Depth 3307' PB Depth: 3304'

Original Completion: 12/71

Casing Record:

 Size
 Depth
 Sacks Cement

 8-5/8"
 517'
 300

 5-1/2"
 3307'
 200

Completion:

12/71 Perf @ 3213'-3265'
2/72 Perf @ 3132'-191'
1/84 Set RBP @ 3204'. Perf @ 3132'-191', 3082'-3176'
8/86 Set RBP @ 3078'. Perf @ 3019'-70'
11/87 Set RBP @ 3000'. Perf @ 2883'-2942'
11/93 Proposed recompletion

Eaves B-1 #15

Location: 1980' FNL & 660' FWL Section 30 T26S R37E
Type: Oil Date Drilled: 1/70
Original Completion: 1/26/70 Total Depth: 3230'

Casing Record:

 Size
 Depth
 Sacks Cement

 8-5/8"
 532'
 240

 5-1/2"
 3230'
 190

Completion:

1/70 Perf @ 3121'-220'

11/79 Perf @ 3092'-3220'. PBTD @ 3225'

McCallister A #3

Location: 660' FSL & 660' FEL Section 24 T26S R37E
Type: Oil Date Drilled: 8/36

Original Completion: 9/1/36 Total Depth: 3245'

Casing Record:

 Size
 Depth
 Sacks Cement

 13"
 462'
 200

 9-5/8"
 2802'
 900

 7"
 3143'
 400

Completion:

9/36 OH @ 3143'-3245' 12/65 Sqz OH w/100 sx

Perf @ 3039'-3100'. Frac well

3/87 TA well

McCallister A #4

Location: 2310' FSL & 660' FEL Section 24 T26S R36E

Plugging data on McCallister A #4 submitted previously for R-4026.

McCallister A #5

Location: 660' FNL & 330' FEL Section 25 T26S R37E
Type: Disposal Date Drilled: 7-1-69
Original Completion: 7/69 Total Depth: 3268

Casing Record:

 Size
 Depth
 Sacks Cement

 8-5/8"
 514'
 175

 5-1/2"
 3268'
 166

Completion:

11/69 Perf @ 3127'-3243' 1/84 perf @ 3074'-3243' McCallister A #7

Location: 2310' FNL & 330' FEL , Section 24 T26S R37E Date Drilled: 12-70 Type: Oil

Total Depth: 3236 Original Completion: 12/70

Casing Record:

Sacks Cement Depth Size 350 8-5/8" 503' 100 3236' 5-1/2"

Completion:

12-70 Perf 2966'-3223'. Frac well

Set RBP € 3100'.

9/73 POOH W/RBP TA well 2/85

McCallister A #8

Section 24 T26S R37E Location: 1980' FSL & 1650' FEL Date Drilled: 9-74 Type: Disposal Total Depth: 3340

Original Completion: 9/74

Casing Record:

Depth Sacks Cement Size 8-5/8" 600' 550 250 3340' 5-1/2"

Completion:

Perf 3261'-3281' 9-74

Perf @ 3060'-131'. Frac well 1 - 75

Reperf @ 3060'-3281' 4/82

Converted to injection well. 3/91

VII Proposed Operation

This well will be used to inject produced water from other wells on the Eaves lease via a closed disposal system.

Proposed average injection rate & pressure: 5000 BWPD @ Vacuum. Proposed maximum injection rate & pressure: 7000 BWPD @ 100 psi.

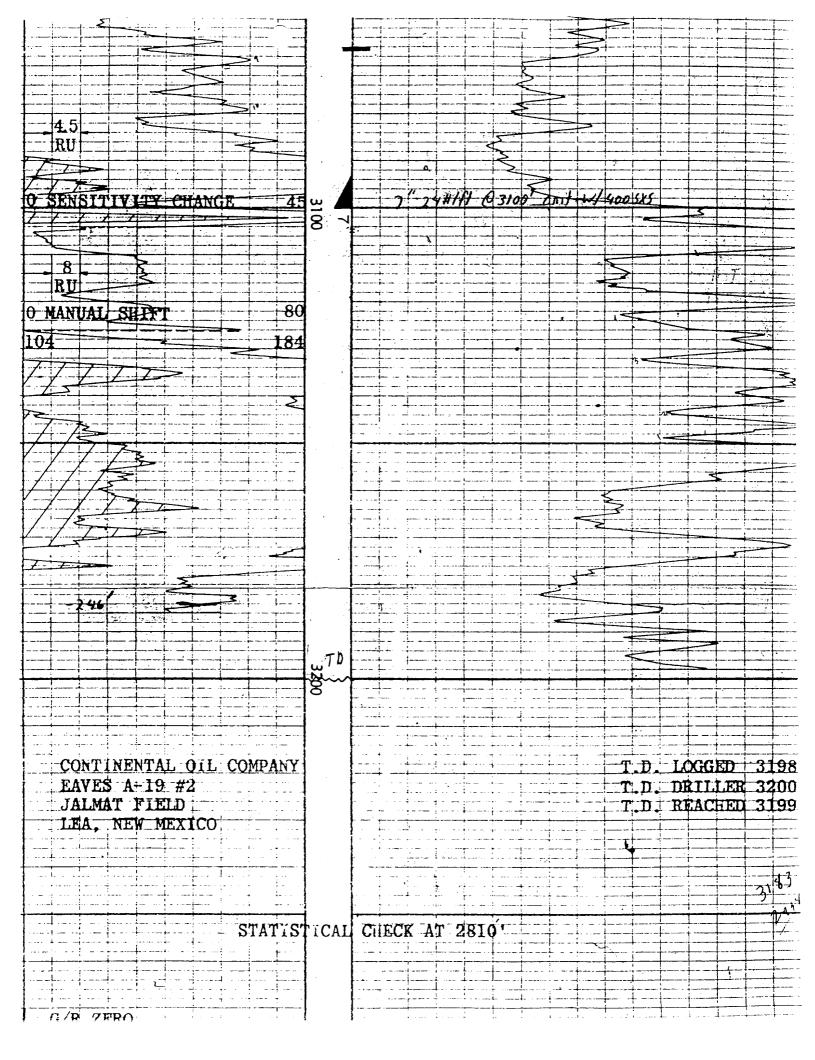
VIII Geological DATA

This produced water will be injected into the Seven Rivers formation which is located from 3096' to 3200'. The Seven Rivers formation consists mostly of sand and lime.

The source of underground drinking water in the area is the Ogallala formation (base at +_ 196').

IX Proposed Stimulation

We will clean out the wellbore, set a Baker Model AD-1 at 3044, and acidize with 5000 gallons acid if necessary.



UNICHEM INTERNATIONAL

P.O. BOX 61427 4312 County Road 1298 S.

Midland, Texas 79711

Hal J. Rasmussen

Report Date: September 23, 1993 Lab In Date: September 22, 1993 Sample Date: September 17, 1993

WINDMILL LOCATION: 250 FSL 2500 FWL Sec. 19 T265 R37E Listed below please find our water analysis report from Windmill 1.001 Specific Gravity: 1018 Total Dissolved Solids: 7.81 PH: .020 Ionic Strength: ________ mg/liter CATIONS: 44 (Ca++) Calcium: 44 (Mg++) Magnesium: 194 (Na+) Sodium: 3.10 Iron (Total) (Fe++) 0.00 Barium (Ba++) .18 Manganese: (Mn++) Resistivity: ANIONS: 368 (HCO3-) Bicarbonate:

0 Carbonate: (CO3--) 0 (OH-) Hydroxide: 295 Sulfate: (SO4--) 73 (Cl-) Chloride:

GASES:

Carbon Dioxide: (CO2) (02) Oxygen: (H2S) Hydrogen Sulfide:

SCALE INDEX (Positive Value Indicates Scale Tendency) * indicates tests were not run.

Temp	erature	CaCO3 SI	CaSO4 Si
86F	30.0C	.55	-21.21
104F	40.0C	.84	-21.37
122F	50.0C	.98	-21.37
140F	60.0C	1.14	-21.21
168F	70.0C	1.31	-20.25
176F	80.0C	1.49	-19.07

If you have any questions or require further information, please contact us.

Sincerely,

cc:

Jeans m. momuney

Laboratory Technician

Charlie Vaden

bc:

Hal J. Rasmussen Operating, Inc. Eaves A #2 Application For Authorization to Inject

Oil Conservation Division Post Office Box 2088 State Land Office Building Santa Fe, New Mexico 87501

November 16, 1993

Gentlemen:

I 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.

Sincerely,

Tyson L. Dunn

Hal J. Rasmussen Operating, Inc.

Mailing List

Surface Owner

Tom Linebery P.O. Box 1536 Midland, Texas 79702

Offset Operators

No offset operators within 1/2 mile radius of the well.

AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

I, Kathi Bearden	
General Manager	

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	e	weeks.
Beginning with	the iss	ue dated
November	22	. 19993
and ending wit	th the is	sue dated
November	22_	, ₁₉ 93
Machi !	Bea	vden_
	ral Man	_
Sworn and si	uhecribe	ad to before

My Commission expires March 15, 1997 (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 November 22, 1993
Application for Authorization to Inject Hal J. Raszation to inject mai J. Kas-mussen Operating, Inc., 310 W. Wall; Suite 906, Mid-land, Texas 79701. (915) 687-1664 Tyson Dunn Salt

687-1664 Tyson Dunn Salt water injection well for pressure maintenance located at 660 FSL & 660 FWL of Section 19-T26S-R37E. The water will be injected through an open hole completion into the Seven Rivers formation at 3100-3200. The expected maximum injection rates & pressures are 7000 BWPD & 100 psi, respectively.

are 7000 BWPD & 100 psi, respectively. 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.

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