SIGNATURE

John K

OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505

| 6/22/99 |
|------------------------------|
| FORM C-108 Revised 4-1-98 |
| 75) |

SWD

APPLICATION FOR AUTHORIZATION TO INJECT

| JU | N - 7 |
|--------------|---|
| и I . | PURPOSE: Secondary Recovery Pressure Maintenance XX Disposal Storage Application qualifies for administrative approval? Yes No |
| II. | OPERATOR: John R. Stearns, d/b/a.,Stearns |
| | ADDRESS: HC 65 Box 988 Crossroads, NM 88114 |
| | CONTACT PARTY: John R. Stearns PHONE: 675-2356 |
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| IV. | Is this an expansion of an existing project? <u>Yes</u> <u>XX</u> No If yes, give the Division order number authorizing the project: |
| ∕ 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: |
| | 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 geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources 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 sources 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: John R. Stearns TITLE: Owner |

DATE: <u>6-2</u>-99

line

^{*} If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

Side 2

- 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 cf 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 the 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 subnitted. 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, 2040 South Pacheco, Santa Fe, New Mexico 87505, 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.

INJECTION WELL DATA SHEET

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| _ | John | R. Stearns db | a Stearr | ns G | ray #1 | ······································ | | |
|------------------|--|---------------------------------|-----------------------|---|--|--|--|--|
| (| Operator #1 | 660' FNL 3 | 300 FEL | L ease 18 | 9S | 34E | | |
| Ī | Well No. | Footage Location | | Section | Township | Range | | |
| Lea, | <u>New Me</u> | xúco | • | | ······································ | ····· | | |
| (| County | | | | | | | |
| | Sch | ematic | | Tab | ular Data | | | |
| | | | <u>S</u> | urface Casing | ~ / / | | | |
| | | | S | urface Casing $\frac{12}{2}$ | 3/4 " Cemented W | ith ³⁷⁵ sx. | | |
| | | 123/4 0 | 157' ¹ | oc <u>Surface</u> | feet determined by Ci | rculation | | |
| | | | ŀ | lole size 15" | | | | |
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| | 비 | <u>1 8 78 @ 3</u> | <u>478</u> н | Iole size <u>11"</u> | | | | |
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| | | | S | $ize_5 \frac{1}{2}$ | Cemented with 5 | <u>00</u> sx. | | |
| | | | 1 | TOC 7900 feet determined by Circulation | | | | |
| | | | F | Hole size 7 7 / 8 '' | | | | |
| | | MODEL RE | 94600' I | Total depth <u>9692</u> | · • | | | |
| | | | , <u>k</u> | njection Interval | - | | | |
| | | Theres 966. | 2-9618 | <u>9662</u> f | set to <u>9678</u> | feet | | |
| | N | | <u> </u> | Perforated or open ho | le, indicate which.) | | | |
| | | | | | | | | |
| | | | | | | | | |
| Т | Tubing size | 2 7 / 8 " lined with] | PC & PV (Material) | C set in | a <u>Model R</u> (Brand or | Model) | | |
| р | ackerat <u>9</u> | 600 feet, or desc | ribe any other cas | ing-tubing seal. | • | | | |
| <u>C</u> | <u>)ther Data</u> Name of | the injection formation B(| ough C | Penn For | mation | | | |
| 2 | Name of | field or pool. (if applicable). | Vada P | enn | | | | |
| , 3 | ls this a r | new well drilled for injection? | Yes | XX No | | | | |
| | If no for what number was the well originally drilled? Penn Qil Production | | | | | | | |
| 4 | 4. Has the v | vell been perforated in any oth | er zone (s)? List | all such perforated in | tervals and give plugging d | etail (sacks of cement | | |
| | or bridge | plug(s) used. None | | • | | • | | |
| 9 | 5. Give the | depth to and the name of any of | overlying and/or u | mderlying oil or gas | zones (pools) in this area. | | | |
| - - | | Abo-approx. | | San_A | ndres-approx | . 4800' | | |

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Tabulation of data on all wells of Public Record in the Area of Review

| | Willow Creek Resources, Inc. DeSchmidt Federal #1 | 1980' FNL 660' FEL Sec. 13 T9S - R33E Drilled 1/4/1979 Total Depth 9700' Perfs. @ 9644-9664 P & A 3/7/1996 |
|---|--|---|
| | | 12 3/4' csg in 17" hole set @ 452' w/450 sx TOC suf. 8 5/8" csg in 11" hole set @ 3930' w/750 sx TOC 1880' 5 1/2 csg in 7 7/8" hole set @ 9700' w/325 sx TOC 7900' |
| | Maurice L. Brown Company Sheridan #1 | 660' FSL 660' FEL Sec. 12 - T9S - R33E Drilled 8/14/1972 Total Depth 9655' Perfs. @ 9620'-9640' P & A 2/16/1978 |
| | | 11 3/4" csg in 15" hole set @ 375' w/350 sx TOC sur. 8 5/8" csg in 11" hole set @ 4000' w/375sx TOC 3000' 5 1/2" csg in 7 7/8" hole set @ 9655' w/400 sx TOC 7500' |
| | Read & Stevens, Inc. Duncan Comm. #1 | 1980' FSL 660' FWL Sec. 18 - T9S - R34E Drilled 12/28/1971 Total Depth 9691' Perfs. @ 9632'-9652' P & A 10/26/1983 |
| | | 12 3/4" csg in 15" hole set @ 351 w/375 sx TOC sur. 8 5/8" csg in 11" hole set @ 3983' w/300 sx TOC 2700 5 1/2" csg in 7 7/8" hole set @ 9691' w/500 sx TOC 7900' |
| | Maurice L. Brown Company US Young Comm. #1 | 1980' FSL 1980' FEL Sec 7 - T9S - R34E Drilled 7/6/1971 Total Depth 9706' Perfs. @ 9648'-9668' P & A 10/23/79 |
| | | 12 3/4" csg in 17" hole set @ 370' w/ 350 sx TOC sur. 8 5/8" csg in 11" hole set @ 3964' w/375 sx no TOC 5 1/2" csg in 7 7/8" hole set @ 9706' w/400 sx TOC 4000' |
| 2 | Maurice L. Brown Company Keohane #1 | 3300' FEL 660' FSL Sec. 7 - T9S - R34E Drilled 8/26/1971 Total Depth Perfs. @ 9634'-9661' P & A |
| | | 13 3/8" csg in 17.5" hole set @ 350' w/375 sx TOC sur 8 5/8" csg in 11" hole set @ 4000' w/375 sx TOC 2500 5 1/2" csg in 7 7/8" hole set @ w/ 400 sx TOC 4000' |

Amoco Production Company Pruitt "B" #1 1980' FSL 1980' FEL Sec. 18 - T9S - R34E Drilled 10/701972 Total Depth 9718' Perfs. @ 9669'-9692' P & A

12 3/4" csg in 17" hole set @ 355' w/ 350 sx TOC sur. 8 5/8" csg in 11" hole set @ 3956' w/400sx TOC 3956' 5 1/2" csg in 7 7/8" hole set @ 9718' w/300sx TOC 7400'

Amoco Production Company Pruitt "B" #2

1

660' FNL 1980' FEL Sec. 18 - T9S - R34E Drilled 9/16/1971 Total Depth 9710' Perfs. @ P & A 2/3/1983

ALLER DE

12 3/4" csg in 17" hole set @ 320' w/ 350 sx TOC sur. 8 5/8" csg in 11" hole set @ 3955' w/ **2305** no TOC 12 50 50%. 5 1/2" csg in 7 7/8" hole set @ 9710' w/ 600sx no Toc Willow Creek Resources, Inc. DeSchmidt Federal #1 1980' FNL, 660' FEL Sec 13-T9S-R33E





Maurice L. Brown Company Sheridan #1 660' FSL, 660' FEL Sec. 12-T9S-R33E









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SUPPLEMENTAL DATA

Form C - 108

- VII. 1. Proposed average daily injection rate is 2000 B/D with an anticipated rate of 2500 B/D.
 - 2. The injection system will be open.
 - 3. The injection pressure at the well head is anticipated to be no more than 100 psi.
 - 4. Source of the injection fluid will be from the Bough "C", San Andres, Devonian, and Wolfcamp zones.
 - 5. There are no active Penn wells within the prescribed Area of Review or within a two (2) square mile area of the proposed injection well.
- VIII. 1. The Bough "C" or Penn Zone is a fine crystalline vuggy limestone of the Pennsylvanian Age, identified by late Criso Fossils. The gross zone is normally 20'-30' thick and in the proposed injection well is found at a depth of 9662'-9678'.
 - 2. Fresh water zones are almost non-existent in this area. A few wells of low capacity have been found at a depth of 90-250 feet.
- IX. 1. No stimulation of the well is planned except for acid to be dumped down tubing.
- X. 1. Well logs are on file with the OCD. Last production on the well was February of 1999. Due to low production, the well is non-economic to produce.

Pro-Kem, Inc.

WATER ANALYSIS REPORT

SAMPLE

| Oil Co. : Lease : Well No.: Lab No. : | N/A Delbert Brown # 1 041799.001 | Sample Loc. ; Date Analyzed: Date Sampled ; | Fresh Water 17-April-1999 15-April-1999 | | |
|--|---|---|--|--------------------------------------|-------------|
| ANAL | YSIS | | | | |
| 1. 2. 3. | pH 7.6 Specific Gravity 60/60 F. 1.0 CaCO ₃ Saturation Index @ 80 F. @ 140 F. | 390 006 +0.633 +1.333 | | | |
| Di | issolved Gasses | MG/L | EQ. WT. | *MEQ/L | |
| 4. 5. | Hydrogen Sulfidc I Carbon Dioxide Not Dissolved Oxygen Not | Not Present Determined Determined | | | |
| 7. 8. 9. 10. | ations Calcium (Ca++) Magnesium (Mg++) Sodium (Na+) (Calculated) Barium (Ba++) Not | 104 63 270 Determined | / 20.1 = / 12.2 = / 23.0 = | $5.17 \\ 5.16 \\ 11.74$ | |
| A1 12. 13. 14. 15. 16. | hions Hydroxyl (OH ⁻) Carbonate (CO ₃ ⁼) Bicarbonate (HCO ₃ ⁻) Sulfate (SO ₄ ⁼) Chloride (Cl ⁼) Total Dissolved Solids | 0 229 475 300 1,441 | / 17.0 = / 30.0 = / 61.1 = / 48.8 = / 35.5 = | 0.00 0.00 3.75 9.73 8.45 | |
| 17. 18. 19. | Total Iron (Fe) Total Hardness As CaCO3 Resistivity @ 75 F. (Calculated) | 520 4.777 /cm. | / 18.2 = | 0.36 | |
| | LOGARITHMIC WATER PATTERN *meq/L. | PROB COMPOUND | ABLE MINERAL EQ. WT. X | COMPOSITI *meq/L = | ON mg/L. |
| Na 🗰 | _ | Ca (HCO3 |)2 81.04 | 3.75 | 304 |
| Ca 🖁 | | CaSO4 | 68.07 | 1.43 | 97 |
| Mg 🖁 | | CaCl ₂ | 55.50 | 0.00 | 0 |
| Fe 🖁 | | Mg (HCO3 |) ₂ 73.17 | 0.00 | 0 |
| 10000 Calc | cium Sulfate Solubility Profile | MgSO4 | 60.19 | 5.16 | 311 |
| | | MgCL2 | 47.62 | 0.00 | 0 |
| ن بر بر | | NaHCO3 | 84.00 | 0.00 | 0 |
| L J | | NaSO4 | 71.03 | 3.14 | 223 |
| ı j Tem | 1136 1110 p *F, 50 70 90 110 138 136 178 | NaCl *Mil | 58.46 li Equivalen | 8.45 ta per Lit | 494 er |

This water is mildly corrosive due to the pH observed on analysis. The corrosivity is increased by the content of mineral salts in solution.

| | | | | | The |
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XII AFFIRMATIVE STATEMENT

As required by Item XII of form C-108, John R. Stearns dba. STEARNS, has examined available geologic and engineering data and found no evidence of open faults or other hydrologic connection between the disposal zone and any other underground source of drinking water.



HC 65 Box 988 Crossroads, NM 88114 505-675-2356

April 26, 1999

TO WHOM IT MAY CONCERN:

JOHN R. STEARNS, d/b/a STEARNS, has made application with the Oil

Conservation Division of the Energy and Minerals Department of the State of New

Mexico for the purpose of operating a disposal well located as follows, to wit:

660 feet from the North line, 3300 feet from the East line of Section 18, township 9 South, Range 34 East, N.M.P.M., Lea County, New Mexico. Said well more commonly known as the Gray #1.

The proposed well will dispose liquids into the Penn Zone pursuant to the application enclosed herewith.

Z 262 929 080

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| | US Postal Service Receipt for Cer No Insurance Coverage Do not use for Internatio Sent to Street & Number Street & Number | tified Mail Provided. nal Mail (See reverse) |
|-----------|---|--|
| | Post Office Stress ZIP Co | 10 NM 88130 |
| ĺ | Postage JUN | 12 1999 33 |
| | Certified Fee | 1.40 |
| | Special Delivery Ree RR | 16 |
| 2 | Restricted Delivery Fee | |
| 199 | Return Receipt Showing to Whorn & Date Delivered | 1.25 |
| Apri | Return Receipt Showing to Whom, Date, & Addressee's Address | |
| 800 | TOTAL Postage & Fees | \$ 2.98 |
| PS Form 3 | Postmark or Date | , |

LEGAL NOTICE John R. Stearns, dba, Stearns, HC 65 Box 988, Crossroads, NM 88114, 505-675-2356, is making an application to the State of New Mexico, Oil Conservation Division for a permit to dispose of produced water into the Gray #1. The well located 660' FNL and 3300' FEL, Sec. 18-T9S-R34E, Lea County, New Mexico. Injection will be into the Bough "C" (Penn) Formation at a depth of 9662'-9678', anticipated rates of 2000-2500 B/D at 0 pressure.

Interested parties may file objections or request a hearing within 15 days to the Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico 87505. Published in the Lovington Daily Leader June 3, 1999.

ILLEGIBLE

1.2 6/22199



GOVERNOR

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

'99 6/14

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 | X | |
| WFX | | <u> </u> |
| PMX | | |

Gentlemen:

I have examined the application for the:

#1-C-18-95-34e bray Stearns Lease & Well No. Operator Unit

and my recommendations are as follows:

QK-

Yours very truly,

illians MS

Chris Williams Supervisor, District 1

/ed

7-19-99 To: MARK Ashley From: John Stearns Fax# 505-675-2339 2 paged including cover page

ILLEGIBLE

XIV.

As required by Item XIV of form C-108, John R. Stearns dba. STEARNS, has examined lease holder records at the courthouse and with the Bureau of Land Management and found to the best of my knowledge that none of the minerals within the area of review (one-half mile radius) is leased.