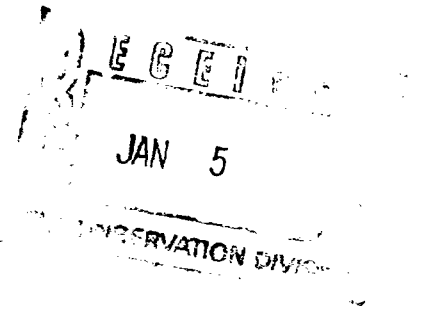




CLAYTON WILLIAMS ENERGY, INC.



Via Federal Express Overnight Service

January 4, 2001

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
Attn: Mr. Mark Ashley
2040 South Pacheco
Santa Fe, New Mexico 87505

Re: **Amended** Application for Authorization to Inject-**Form C-108**
Green B Federal #9 (API #30-015-22930)
Eddy County, New Mexico

Mr. Ashley:

Clayton Williams Energy, Inc. requests to amend Administrative Order SWD-783 issued August 4, 2000 for the above captioned well. The authorized injection interval will not take water at the desired rate for disposal.

We are amending this application to dispose into the Abo formation which tested wet in this well bore.

We will forward "Proof of Notice" and Proof of Publication" to you within the next several days.

Please feel free to contact me at 915-688-3251 or Betsy Luna at 915-688-3240 should you have any questions regarding this application.

Sincerely Yours,

A handwritten signature in black ink that reads "Matt Swiere". The signature is written in a cursive, flowing style.

Matt Swiere
Production Superintendent

Enclosures
Cc: OCD-Artesia

File 12603

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? Yes No
- II. OPERATOR: Clayton Williams Energy, Inc.
ADDRESS: Six Desta Drive, Suite 3000, Midland, Texas 79705
CONTACT PARTY: Matt Swierc PHONE: (915) 688-3251
- 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. **Attachment 1**
- IV. Is this an expansion of an existing project? Yes X 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. **Attachment 2**
- 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. **Attachment 3**
- VII. Attach data on the proposed operation, including: **Attachment 4**
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 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. **Attachment 5**
- IX. Describe the proposed stimulation program, if any. **Attachment 6**
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). **Attachment 7**
- *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. **Attachment 8**
- 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. **Attachment 9**
- 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: Matt Swierc TITLE: Production Superintendent
SIGNATURE: *Matt Swierc* DATE: 12/20/00

- * 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: _____

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 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 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, 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

OPERATOR: Clayton Williams Energy, Inc.WELL NAME & NUMBER: Green B-9 (API # 30-015-22930)WELL LOCATION: 1980' FNL & 2310' FEL G 19 17S 29E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 15" Casing Size: 11-3/4" @ 429'
Cemented with: 325 sx. or ft³
Top of Cement: surface Method Determined: circulationIntermediate CasingHole Size: 11" Casing Size: 8-5/8" @ 3000'
Cemented with: 1250 sx. or ft³
Top of Cement: surface Method Determined: circulationProduction CasingHole Size: 7-7/8" Casing: 4-1/2" Inside 5-1/2"
@ 8731'
Cemented with: 150 sx. or ft³
Top of Cement: 5570' Method Determined: Temp Svy
Total Depth: 10870'Injection Interval6,900' feet to 7,600' perforated

INJECTION WELL DATA SHEETTubing Size: 2-7/8" Lining Material: Plastic coatingType of Packer: Loc-SetPacker Setting Depth: 6,800'Other Type of Tubing/Casing Seal (if applicable): N/AAdditional Data

1. Is this a new well drilled for injection? Yes X No

If no, for what purpose was the well originally drilled? Morrow Gas

2. Name of the Injection Formation: Abo

3. Name of Field or Pool (if applicable): Empire, Abo

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i. e. sacks of cement or plug(s) used. YES

See attached wellbore schematic

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____

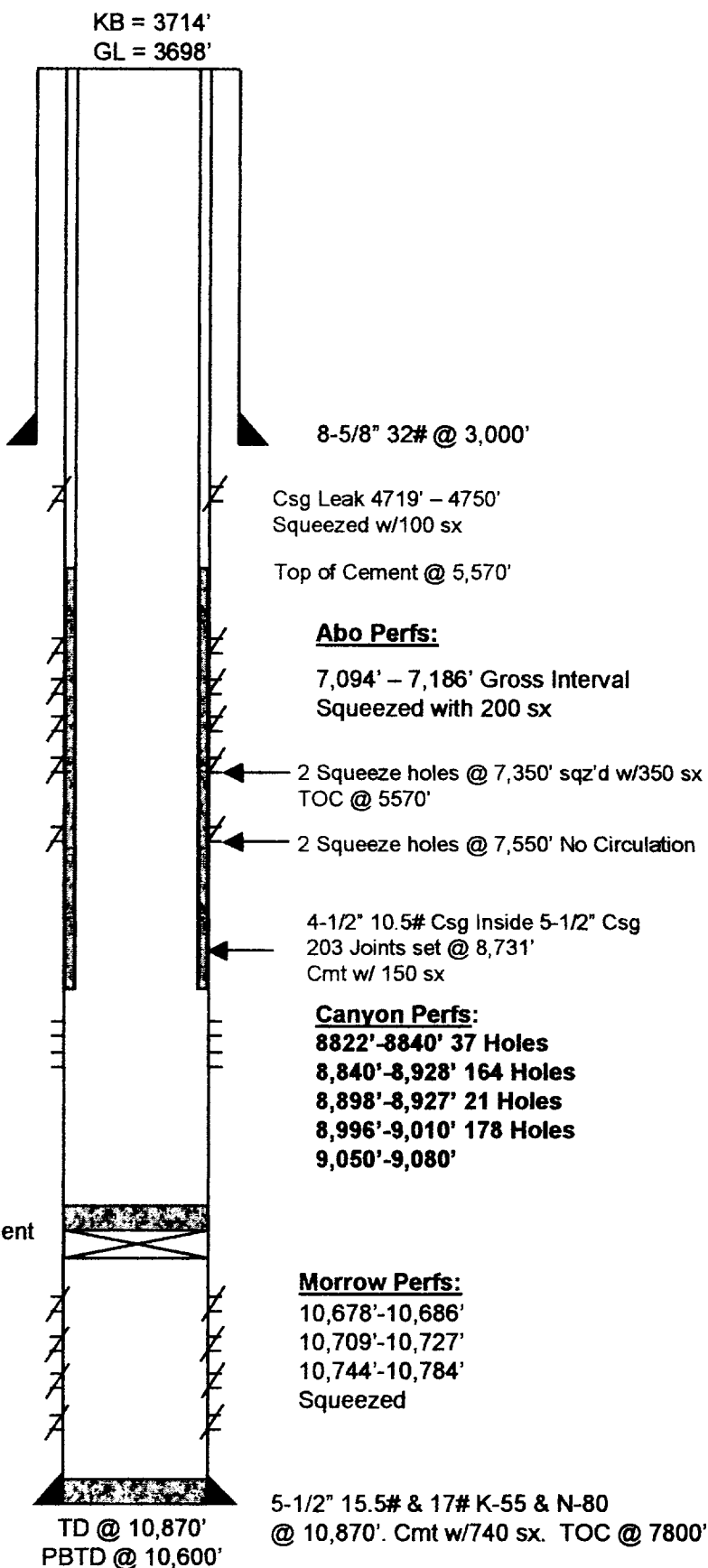
Atoka below 11,000'; Tubb +-5,000

CLAYTON WILLIAMS ENERGY, INC. CURRENT WELLBORE SCHEMATIC

LEASE: GREEN B-9
COUNTY: Eddy
STATE: New Mexico
LOCATION: 1980' FNL & 2310' FEL
SURVEY: Sec. 19, T17S, R29E
API #: 30-015-22930

Stimulation:

7/94 5000 gals 28% HCL Acid



Prepared by:
Date:

Chris Cantrell
December 18, 2000

**CLAYTON WILLIAMS ENERGY, INC.
PROPOSED WELLBORE SCHEMATIC**

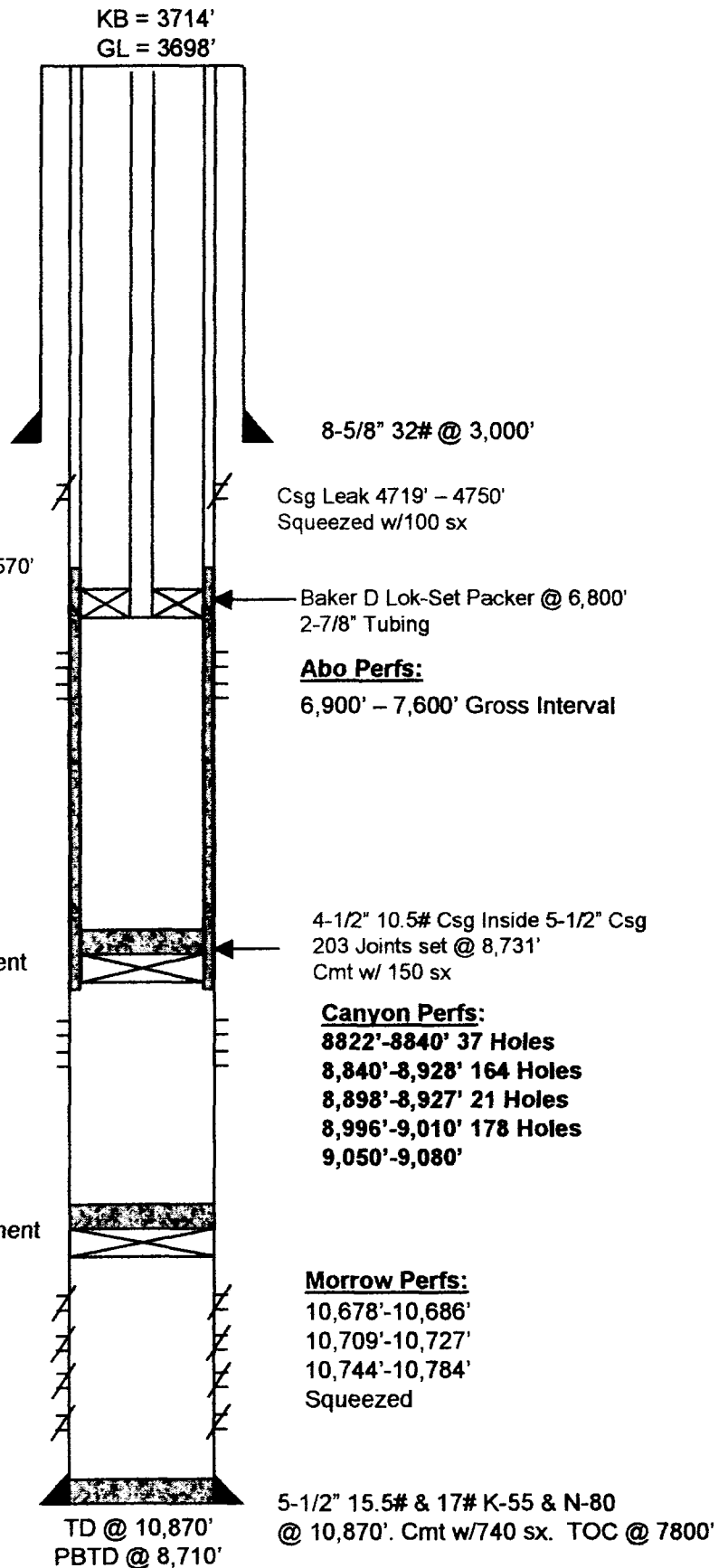
LEASE: GREEN B-9
COUNTY: Eddy
STATE: New Mexico
LOCATION: 1980' FNL & 2310' FEL
SURVEY: Sec. 19, T17S, R29E
API #: 30-015-22930

Stimulation:

7/94 5000 gals 28% HCL Acid

CIBP @ 8,730' w/20' Cement

CIBP @ 10,620' w/20' Cement



Prepared by: Chris Cantrell
Date: December 18, 2000

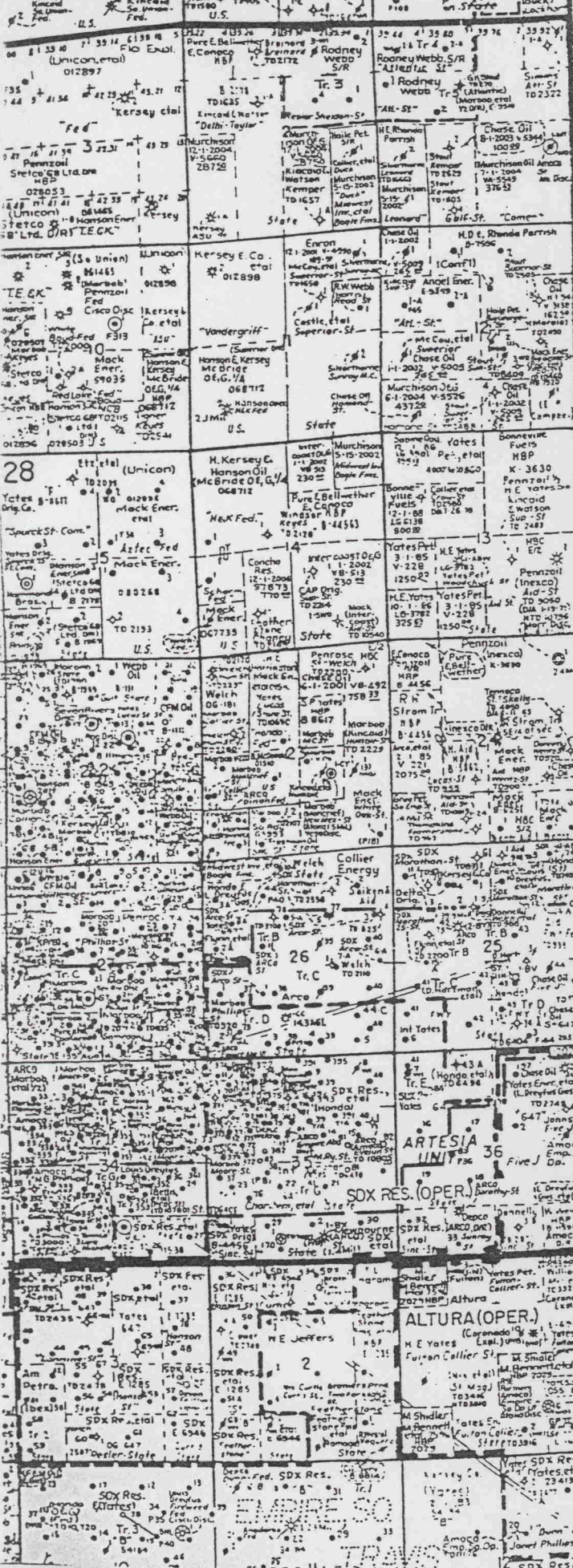
Attachment 1

**Clayton Williams Energy, Inc.
Application for Authorization to Inject
Form C-108**

III. Well Data

- A. (1) Green B-9
Section 19 T17S R29E N/2, Eddy County
1980' FNL and 2310' FEL
- (2) 11 3/4" 42# H-40 @ 429', 325 sacks Cement, 15" hole, cement to surface, circulated to surface
8 5/8" 32# K-55 @ 3,000', 1250 sacks Cement, 11" hole, cement to surface, circulated to surface
4 1/2" 10.5# inside 5-1/2" @ 8,731', 150 sacks Cement
5 1/2" @ 10,870', 740 sacks Cement, 7 7/8" hole, TOC @ 7,800'
- (3) 2 3/8" 4.7# EUE 8rd N-80 Tubing set at +/-6,800'
- (4) Baker Model "A-3" Lok-set Packer at +/-6,800'
- B. (1) Abo Formation
- (2) Proposed Perforated Interval 6,900'-7,600' (Gross Interval)
- (3) Originally drilled as a Morrow gas producer.
- (4) Cement squeeze above at 4,719'-4,750', squeezed with 100 sx cement.
- Perforations at 7,094'-7186' gross interval, squeezed with 200 sx cement.
- Squeeze holes at 7,350' squeezed with 350 sx cement. TOC 5570'.
- Squeeze holes at 7,550' Could not break down.
- Perforations below at 8,822'-9,080' gross interval.
- Perforations below at 10,678'-10,784' gross interval behind CIBP and cement @ 10,620'.
- (5) Atoka below at +/-10,900'-11,000'. Tubb above @ +/-5,000'.

**ODNEY WEBB (OPER.)
AST RED LAKE UNIT**



CLAYTON WILLIAMS ENERGY, INC.

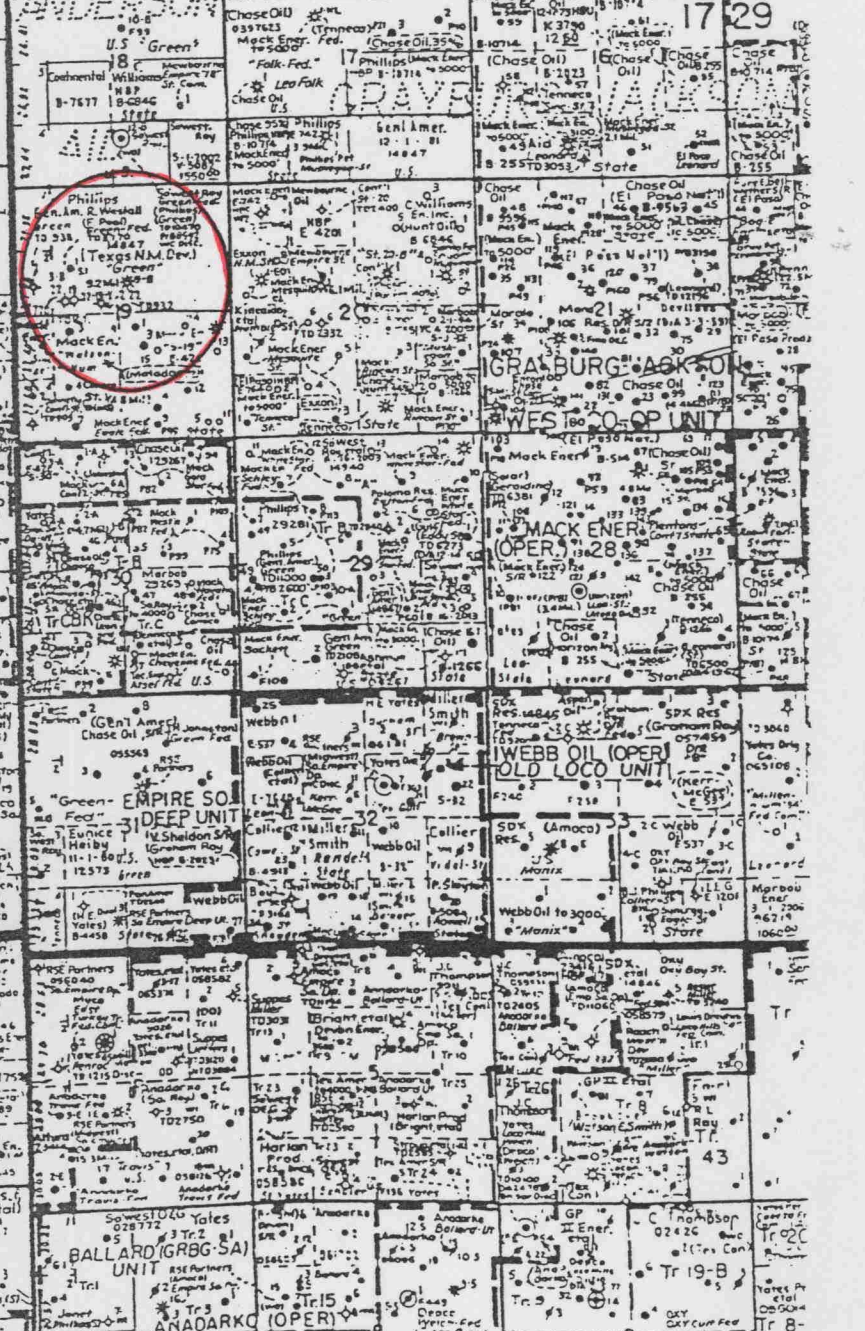
FORM C-108

ATTACHMENT 2

AREA OF REVIEW

1" = 2000'

ANDERSON



Attachment 3

Clayton Williams Energy, Inc.
Application for Authorization to Inject
Form C-108

- VI. Tabulation of wells that penetrate the proposed injection zone within the area of review:

Wells penetrating the proposed injection zone within the area of review:

- 1. Well: State S-19 No.1 Oil Well Pool: Empire, Abo**
API: 30-015-22743 TD 10880' Drilled 3/79
Operator: Mack Energy Corp.
Township: 17S Range: 29E Section: 19 Unit: N Type: S
County: Eddy
13-3/8" @ 431' Cement w/750 sx
8-5/8" @ 2900' Cement w/1800 sx
5-1/2" @ 10880' Cement w/1680 sx
Perfs @ 10679'-10722' Sqz'd BP @ 7432'
Perfs @ 7061'-7104'
- 2. Well: State S-19 No.3 Oil Well Pool: Empire, Abo**
API: 30-015-24143 TD 7300' Drilled 7/82
Operator: Mack Energy Corp.
Township: 17S Range: 29E Section: 19 Unit: J Type: S
County: Eddy
13-3/8" @ 675' Cement w/600 sx
9-5/8" @ 2600' Cement w/1133 sx
5-1/2" @ 7300' Cement w/350 sx
Perfs @ 7120'-7142'
- 3. Well: State S-19 No.4 Oil Well Pool: Empire, Abo**
API: 30-015-24273 TD 7350' Drilled 2/83
Operator: Mack Energy Corp.
Township: 17S Range: 29E Section: 19 Unit: O Type: S
County: Eddy
13-3/8" @ 695' Cement w/690 sx
9-5/8" @ 2600' Cement w/1025 sx
5-1/2" @ 7350' Cement w/1745 sx
Perfs @ 7128'-7144'

Attachment 4

Clayton Williams Energy, Inc.
Application for Authorization to Inject
Form C-108

VII. Data on the proposed operation

1. Proposed average and maximum daily rate and volume of fluids to be injected: **Average Daily Rate: 4,000 Barrels per Day**
Maximum Daily Rate: 8,000 Barrels per Day
2. Whether the system is open or closed: **System will be closed**
3. Proposed average and maximum injection pressure:
Maximum injection pressure will be 1420 PSIG
Average injection pressure will be 1000 PSIG
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water:
Water will be reinjected produced water
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:
Not Available

Attachment 5

Clayton Williams Energy, Inc.
Application for Authorization to Inject
Form C-108

VIII. Geological Data

The proposed disposal interval is within the Abo Formation at a depth of 6,900'-7,600'. The Abo is a sequence of interbedded porous dolomites and tight, limey dolomites free of any silica (sand) admixture and has a thickness of +/-2400'. There are known aquifers overlying the proposed disposal area.

Attachment 6

Clayton Williams Energy, Inc.
Application for Authorization to Inject
Form C-108

IX. Describe the proposed stimulation program, if any:

If necessary, 5000 gallons of 28% hydrochloric acid

Attachment 7
Clayton Williams Energy, Inc.
Application for Authorization to Inject
Form C-108

X. Attach appropriate logging and test data on the well.

Logs are on file. Test data on the proposed disposal zone summarized below:

**Perforated Abo on 06/24/1984 from 7,094'-7,186' (58 Holes).
Stimulated with 5000 gallons NeFe HCL**

**ISIP 2,600 PSI
5 Min. 740 PSI
10 Min. 260 PSI
15 Min. 0 PSI**

Put on Pump on 07/07/1984. Production Tests as reported:

07/08/1984	18 Hours	165 BBL Water	No Oil
07/09/1984	24 Hours	233 BBL Water	No Oil
07/10/1984	24 Hours	200 BBL Water	No Oil
07/11/1984	24 Hours	205 BBL Water	No Oil
07/12/1984	24 Hours	190 BBL Water	No Oil
07/13/1984	24 Hours	145 BBL Water	No Oil

Perforations TA'd.

Attachment 8
Clayton Williams Energy, Inc.
Application for Authorization to Inject
Form C-108

XI. Fresh water analysis...

There are no fresh water wells within one mile.

Attachment 9
Clayton Williams Energy, Inc.
Application for Authorization to Inject
Form C-108


XII. Affirmative Statement

Re: Green B-9 Well
Section 19 T17S R29E
Eddy County, New Mexico

Let it be known that Clayton Williams Energy, Inc. has examined all available engineering and geologic data and find no evidence of open faults of any other hydrologic connection between the disposal zone and any underground sources of drinking water.

Clayton Williams Energy, Inc.

Date: December 20, 2000



Matt Swierc
Production Supt.

Green B-9

Clayton Williams Energy, Inc.

Offset Operators Within ½ Mile Radius

Mack Energy Corporation
PO BOX 960
Artesia, New Mexico 88211-0960
(505) 748-1288

Mewbourne Oil Company
500 W Texas Ave. Suite 1020
Midland, Texas 79701
(915) 682-3715

Southwest Royalties, Inc.
PO BOX 11390
Midland, Texas 79702
(915) 686-9927

Ray Westall
PO BOX 4
Loco Hills, New Mexico 88255

Phillips Petroleum Company
4001 Penbrook Street
Odessa, Texas 79762
(915) 368-1488

Surface Tenant

Bogle Farms, Inc.
PO BOX 358
Dexter, New Mexico 88230

Surface Owner

BLM Carlsbad Field Office
620 East Greene Street
Carlsbad, NM 88220-6292

Legal Notice

Application for Authorization to Inject

Notice is hereby given that Clayton Williams Energy, Inc., 6 Desta Drive, Suite 3000, Midland, Texas 79705, has made an Application for Authorization to Inject with the Oil Conservation Division of the State of New Mexico Energy and Minerals Department. The intention of the applicant is to convert the Green B Federal #9 well and dispose of produced water into the Abo formation, 6900'-7600'. The well is located 1980' FNL and 2310' FEL of Section 19, Township 17 South, Range 29 East, in Eddy County, New Mexico. The expected maximum injection rate will be 8000 barrels per day and the expected maximum injection pressure is 1420 PSIG. Any interested party must file objections or requests for hearing with the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, within 15 days of the last date of publication. Interested parties can contact the applicant's representative, Matt Swierc, at the above address or 915-682-6324