



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

April 12, 1982

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

Barber Oil, Inc.
111 West Mermod
P.O. Box 1658
Carlsbad, NM 88220

*Case No
469*

ATTENTION: Michael D. Garringer

RE: Exception to Rule 705-A
for Injection Wells

Dear Sir:

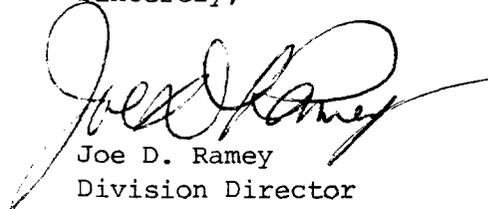
Pursuant to Barber Oil, Inc.'s request for exception of thirty-seven (37) injection wells, as listed on TABLE I, from Rule 705-A, the Oil Conservation Division (OCD) hereby denies your request.

Review of your application and history thereof by the Santa Fe and Aztec District offices concludes that you have not demonstrated good cause to be entitled to exception to Rule 705-A.

The OCD requests that Barber Oil, Inc., take appropriate actions as outlined in the OCD Memorandum of September 30, 1981. (See Attachment)

If you have any questions regarding this matter, please do not hesitate to call or contact Oscar Simpson, at (505) 827-2534.

Sincerely,


Joe D. Ramey
Division Director

JDR/OS/dp

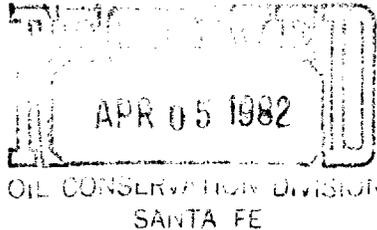
Enc.

TABLE I

1.	Crosby Federal Wells	#1, Section 12, Township 20 South, Range 28 East
2.		#2 " " "
3.		#4 " " "
4.	Turner Federal Wells	#2, Section 13, Township 20 South, Range 28 East
5.		#3 " " "
6.		#6 " " "
7.		#12 " " "
8.		#13 " " "
9.		#15 " " "
10.		#18 " " "
11.		#21 " " "
12.		#22 " " "
13.	Wills Federal Wells	#2, Section 13, Township 20 South, Range 28 East
14.		#5 " " "
15.		#6 " " "
16.		#8 " " "
17.		#10 " " "
18.		#14 " " "
19.		#15 " " "
20.		#17 " " "
21.		#18 " " "
22.		#19 " " "
23.		#21 " " "
24.		#23 " " "
25.		#25 " " "
26.		#26 " " "
27.		#27 " " "
28.		#30 " " "
29.		#33 " " "
30.		#34 " " "
31.		#35 " " "
32.		#36 " " "
33.		#37 " " "
34.		#39 " " "
35.		#41 " " "
36.		#42 " " "
37.		#45 " " "

BARBER OIL, INC.
111 West Mermod
Post Office Box 1658
CARLSBAD, NEW MEXICO 88220
(505) 887-2566

April 1, 1982



State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

Attn: Oscar Simpson III
Water Resource Specialist

Re: Exception to Rule 705-A
LC-050797, Crosby-Turner-Wills Comm. Btry
Russell Field Waterflood, Eddy Co., NM

Dear Sir:

As per your letter of March 24, 1982 I hereby submit "Injection Well Data Sheets" on all wells listed in our letter of March 4, 1982 with one exception. Wills #29 is currently "Plugged & Abandoned".

The "Injection Well Data Sheets" should complete your information for sub-paragraphs (a) thru (j). Sub-paragraph (m) is not applicable and (k) & (l) are as follows:

- (k) All of the injection wells were temporarily discontinued during the months of May and June, 1980.
- (l) Injection will resume as soon as a tertiary recovery program is economically feasible.

Again, I must point out that no drinking water sources are located in this area and we consider the wells essential to our future tertiary recovery program.

Very truly yours,

BARBER OIL, INC.

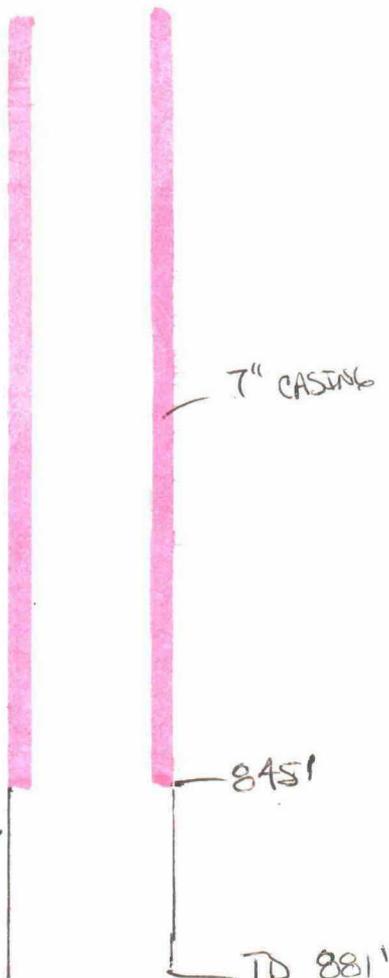

Michael D. Garringer
Manager

Encl: 37

INJECTION WELL DATA SHEET

OPERATOR BARBER OIL, Inc LEASE LC-050797 CROSBY FEDERAL
 WELL NO. 1 FOOTAGE LOCATION 330' FSL + 2310 FEL SECTION 12 TOWNSHIP 20S RANGE 28E

Schematic



Tabular Data

Surface Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 7 " Cemented with 75 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 8"
 Total depth 845

Injection interval

844 feet to 881 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ packer at _____ feet.
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation GATES
2. Name of Field or Pool (if applicable) RUSSELL
3. Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? PRODUCTION
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

BARBER OIL, INC.

CC-050797

CROSBY FEDERAL

OPERATOR

LEASE

2
WELL NO.

330' FSL AND 1650' FEL
FOOTAGE LOCATION

12
SECTION

20 SOUTH
TOWNSHIP

29 EAST
RANGE

Schematic



Tubular Data

Surface Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size _____ 7" Cemented with _____ 75 sx.

TOC unknown feet determined by _____

Hole size _____ 8 1/2

Total depth _____ 860

Injection interval

863 feet to 906 feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ set in a
(material)
_____ packer at _____ feet.
(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation YATES

2. Name of Field or Pool (if applicable) RUSSELL

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

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO

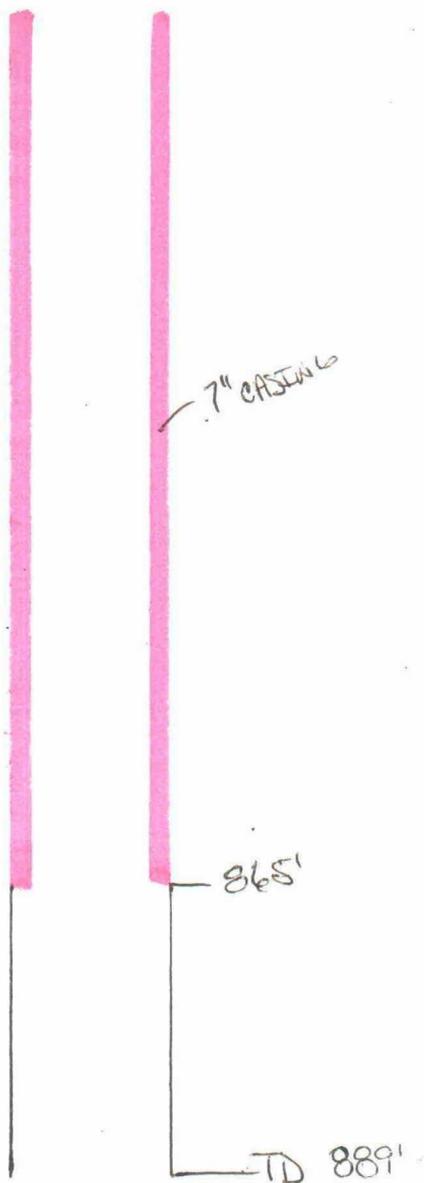
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

INJECTION WELL DATA SHEET

OPERATOR BARBER OIL INC. LEASE CC-050797 CROSBY FEDERAL

WELL NO. 4 FOOTAGE LOCATION 663' FSL AND 2000' FEL SECTION 12 TOWNSHIP 20 SOUTH RANGE 28 EAST

Schematic



Tubular Data

Surface Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 7 " Cemented with 125 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 8 1/2 "
 Total depth 865

Injection interval

867 feet to 889 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size _____ lined with _____ set in a _____ (material) _____ packer at _____ feet. (brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

BARBER OIL, INC
OPERATOR

LC-050797
LEASE

TURNER FEDERAL

2
WELL NO.

1980' FSL AND 1980' FWL
FOOTAGE LOCATION

13
SECTION

20S
TOWNSHIP

28E
RANGE

Schematic



Tubular Data

Surface Casing

Size _____ " Cemented with _____ sx.
TOC _____ feet determined by _____
Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.
TOC _____ feet determined by _____
Hole size _____

Long string

Size _____ 7 " Cemented with _____ sx.
TOC UNKNOWN feet determined by _____
Hole size _____ 8 "
Total depth _____ 726'

Injection interval

812 feet to 827 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8" lined with CEMENT set in a
(material)
GILBERTSON 2" X 7" packer at 735 feet.
(brand and model)

(or describe any other casing-tubing seal).

Other Data

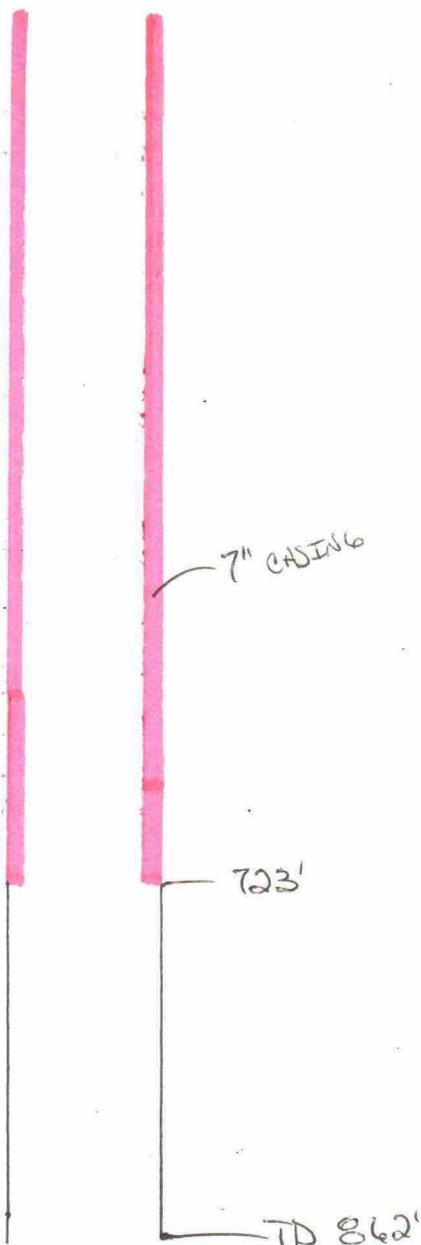
- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
If no, for what purpose was the well originally drilled? PRODUCTION
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

OPERATOR BARBER OIL, INC. LEASE CC-050797 TURNER FEDERAL

WELL NO. 3 FOOTAGE LOCATION 1980' FSL AND 1970' FEL SECTION 13 TOWNSHIP 20S RANGE 28E

Schematic



Tabular Data

Surface Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 7 " Cemented with 50 sx.
 TOC UNKNOWN feet determined by _____
 Hole size _____

Total depth ~~723~~ 723'

Injection interval

841 feet to 862 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ packer at _____ feet.
 (brand and model)

(or describe any other casing-tubing seal).

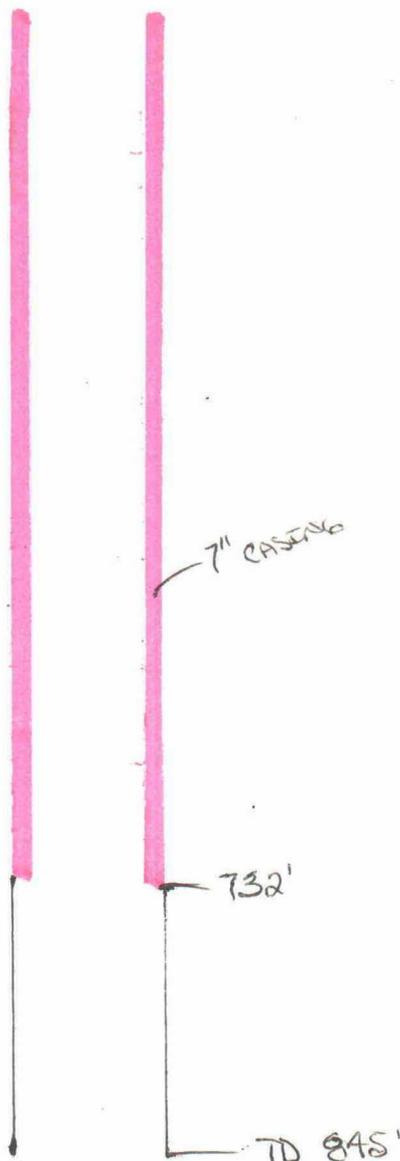
Other Data

1. Name of the injection formation YATES
2. Name of Field or Pool (if applicable) RUSSELL
3. Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? PRODUCTION
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

OPERATOR BARBER OIL, Inc. LEASE LC-050797 TURNER FEDERAL
 WELL NO. 6 FOOTAGE LOCATION 660' FNL AND ~~330'~~ 1980' FWL SECTION 13 TOWNSHIP 20S RANGE 28E

Schematic



Tabular Data

Surface Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 7 " Cemented with 100 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 8 "
 Total depth 732'

Injection interval

826 feet to 845 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ packer at _____ feet.
 (brand and model)

(or describe any other casing-tubing seal).

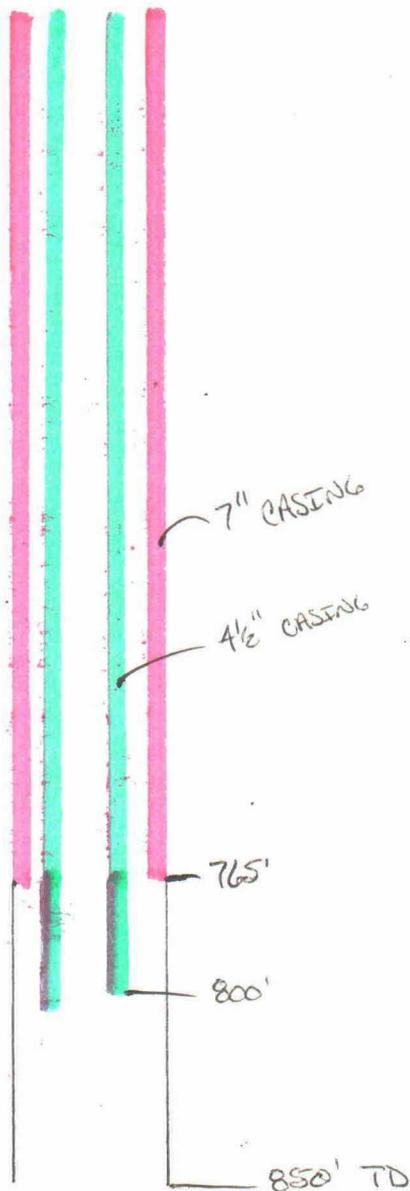
Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

OPERATOR BARBER OIL INC. LEASE LC-050797 TURNER FEDERAL
 WELL NO. 12 FOOTAGE LOCATION 2322' FSL AND 2339 FWL SECTION 13 TOWNSHIP 20S RANGE 28E

Schematic



Tabular Data

Surface Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 4 1/2" + 7" Cemented with 100 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 8"
 Total depth 765'

Injection interval

826 feet to 850 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size _____ lined with _____ set in a _____
 (material)
 _____ packer at _____ feet.
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation YATES
2. Name of Field or Pool (if applicable) RUSSELL
3. Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? PRODUCTION
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

BARBER OIL INC.
OPERATOR

CC-050797
LEASE

TURNER FEDERAL

13
WELL NO.

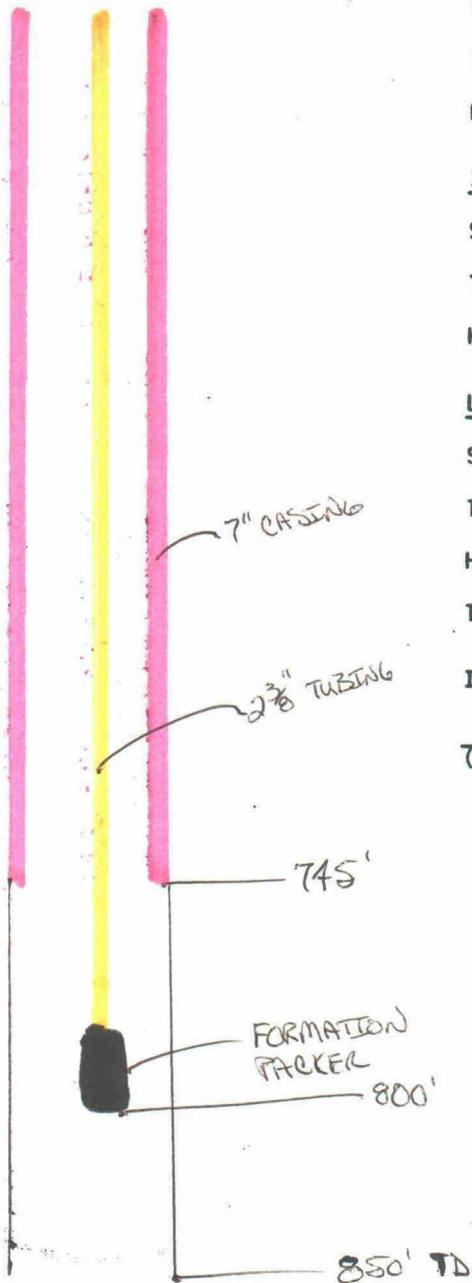
332' FNL AND 2340 FWL
FOOTAGE LOCATION

13
SECTION

20S
TOWNSHIP

28E
RANGE

Schematic



Tabular Data

Surface Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 7" Cemented with 100 sx.

TOC UNKNOWN feet determined by _____

Hole size 8"

Total depth 745'

Injection interval

808 feet to 845 feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8" lined with CEMENT set in a
(material)
LYNES 2" X 4 1/4" packer at 800 feet.
(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation YATES

2. Name of field or Pool (if applicable) RUSSELL

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

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

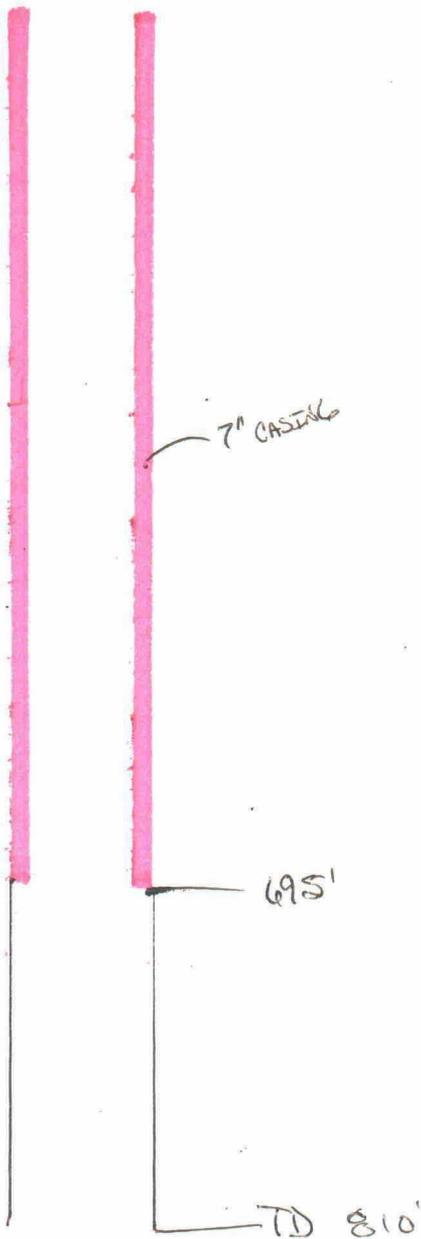
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

BARBER OIL INC. CC-050797 TURNER, FEDERAL
OPERATOR LEASE
15 331 FSL AND 1669 FWL 13 20S 28E
WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic



Tabular Data

Surface Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 7 " Cemented with 75 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 8"
 Total depth 695'

Injection interval

789 feet to 808 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size _____ lined with _____ set in a
(material)
 _____ packer at _____ feet.
(brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? PRODUCTION

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO

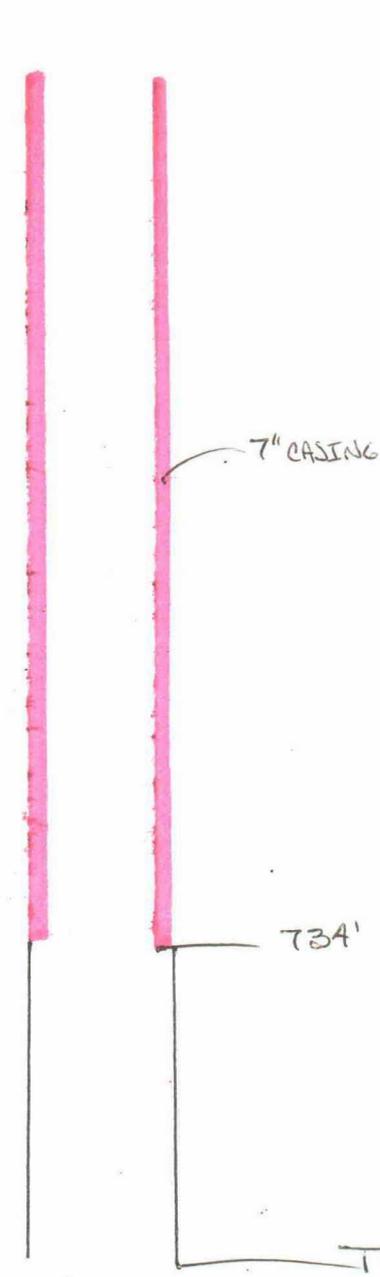
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

BARBER OIL, INC. CC-050797 TURNER FEDERAL
OPERATOR LEASE
18 1658' FWL AND 2339' FWL 13 20s 28E
WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic

Tabular Data



Surface Casing
 Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____
Intermediate Casing
 Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____
Long string
 Size 7 " Cemented with 75 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 8 "
 Total depth 734'
Injection interval
799 feet to 829 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size _____ lined with _____ set in a _____
(material)
 _____ packer at _____ feet.
(brand and model)
 (or describe any other casing-tubing seal).

Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

BARBER OIL, INC.
OPERATOR

CC-050797
LEASE

TURNER FEDERAL

21
WELL NO.

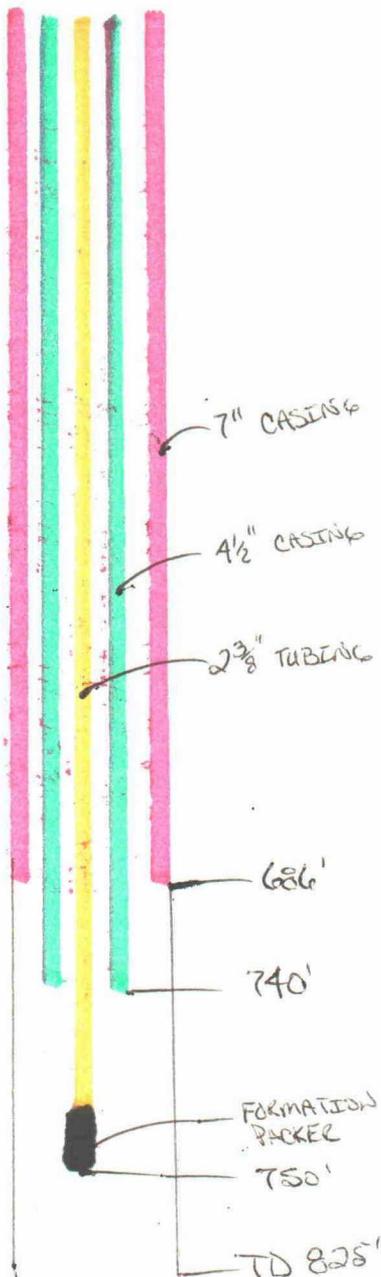
959' FSL AND 2339 FWL
FOOTAGE LOCATION

13
SECTION

20S
TOWNSHIP

28E
RANGE

Schematic



Tubular Data

Surface Casing

Size _____ " Cemented with _____ sx.
TOC _____ feet determined by _____
Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.
TOC _____ feet determined by _____
Hole size _____

Long string

Size 4 1/2 + 7 " Cemented with 125 sx.
TOC UNKNOWN feet determined by _____
Hole size 8 "
Total depth 686'

Injection interval

789 feet to 819 feet
(~~perforated~~ or open-hole, indicate which)

Tubing size 2 3/8 " lined with PLASTIC (material) set in a
ARROW TYPE SL 2" X 4" packer at 750 feet.
(brand and model)

(or describe any other casing-tubing seal).

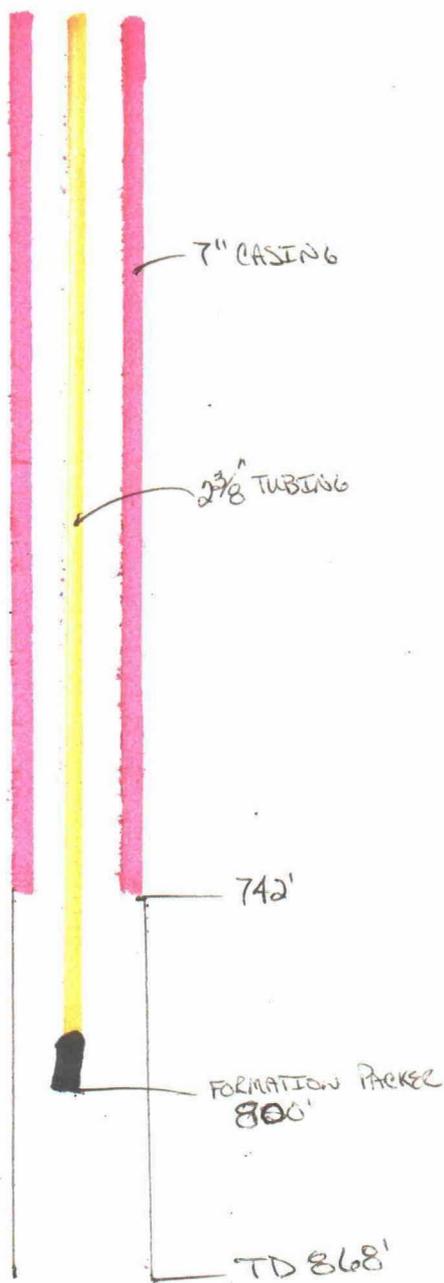
Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
If no, for what purpose was the well originally drilled? PRODUCTION
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) no
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

Operator BARBER OIL, Inc. Lease LC-050797 TURNEX FEDERAL
 Well No. 22 Footage Location 2322 FSL AND 1669 FEL Section 13 Township 20S Range 28E

Schematic



Tabular Data

Surface Casing

Size _____" Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size _____" Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 7" Cemented with 125 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 8"
 Total depth 742'

Injection interval

846' feet to 868 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size 2 3/8" lined with CEMENT set in a
 (material)
COULBERSON 2X 7" packer at 800 feet.
 (brand and model)

(or describe any other casing-tubing seal).

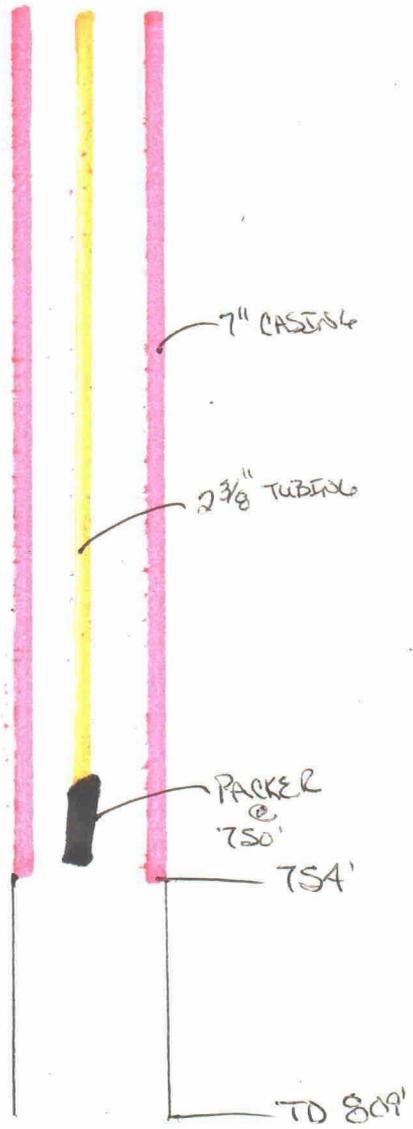
Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. None

INJECTION WELL DATA SHEET

OPERATOR BARBER OIL, INC. LEASE LC-050797 WELLS FEDERAL
 WELL NO. 2 FOOTAGE LOCATION 660' FSL 660' FUL SECTION 13 TOWNSHIP 20S RANGE 28E

Schematic



Tabular Data

Surface Casing

Size _____" Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size _____" Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 7" Cemented with 50 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 8"
 Total depth 754

Injection interval

785 feet to 809 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size 2 3/8 lined with _____ set in a _____
 (material)
LYNES 2X 1 1/4 packer at 750 feet.
 (brand and model)

(or describe any other casing-tubing seal).

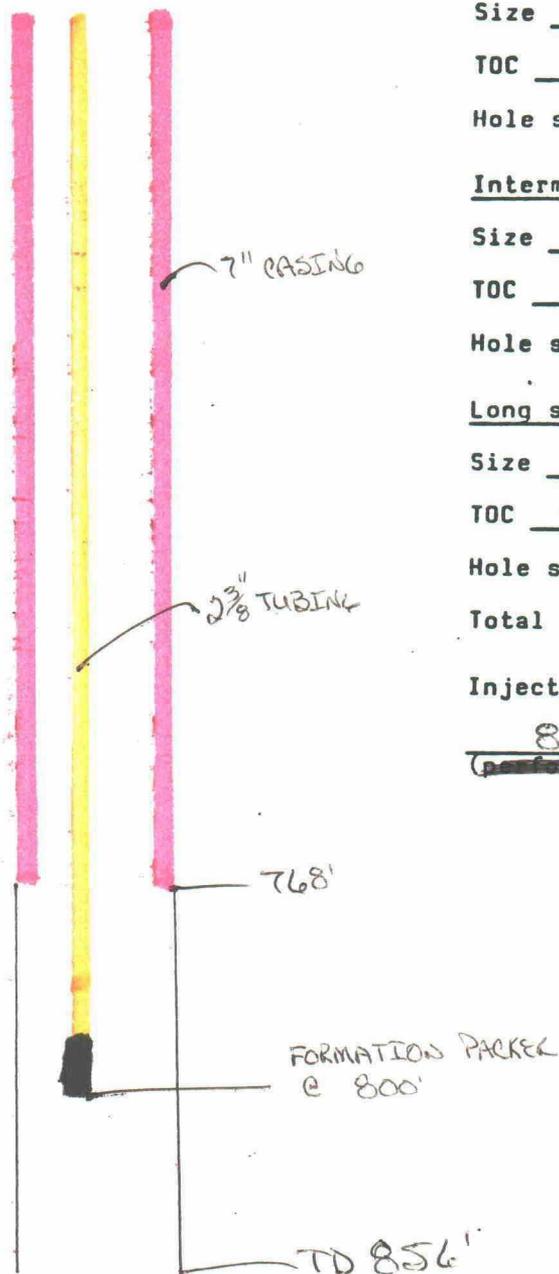
Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? PRODUCTION
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

OPERATOR BARRIER OIL, INC. LEASE LC-050797 WELLS FEDERAL
 WELL NO. 5 FOOTAGE LOCATION 990' FWL AND 330' FWL SECTION 13 TOWNSHIP 20S RANGE 28E

Schematic



Tabular Data

Surface Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 7 " Cemented with 125 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 8 "
 Total depth 768

Injection interval

828 feet to 856 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size 2 3/8" lined with CEMENT set in a
 (LYNES 2" X 4" 4" packer at 800 feet.
 (brand and model)

(or describe any other casing-tubing seal).

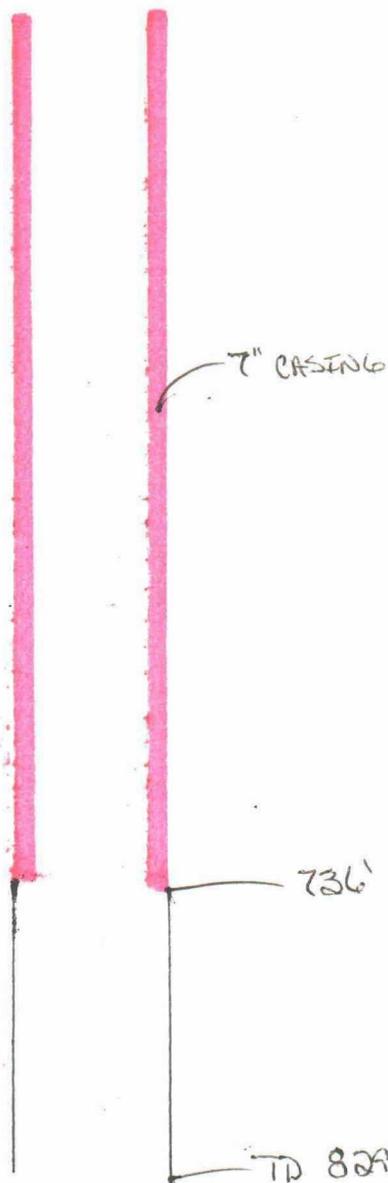
Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? PRODUCTION
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

BARBER OIL INC. 10-050797 WELLS FEDERAL
OPERATOR LEASE
6 996' FSL AND 1005 FWL 13 20s 28E
WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic



Tabular Data

Surface Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 7 " Cemented with 75 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 8"
 Total depth 736'

Injection interval

803 feet to 829 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a
 _____ packer at _____ feet.
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? PRODUCTION

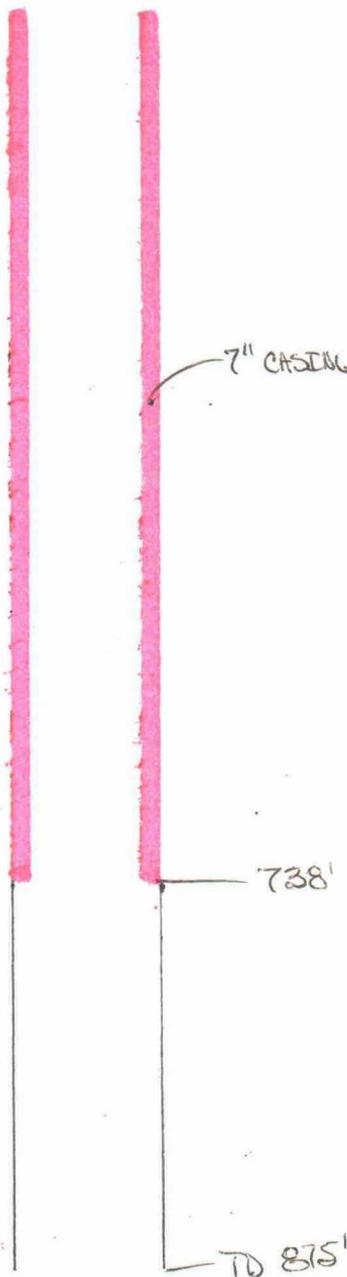
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

OPERATOR BARBER OIL, INC LEASE CC-050797 WILLS FEDERAL
 WELL NO. 8 FOOTAGE LOCATION 996' FNL 1005 FEL SECTION 13 TOWNSHIP 20S RANGE 28E

Schematic



Tabular Data

Surface Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 7 " Cemented with 100 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 8 "
 Total depth 738'

Injection interval

857 feet to 872 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size _____ lined with _____ set in a _____ (material) packer at _____ feet.
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation YATES

2. Name of Field or Pool (if applicable) RUSSELL

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

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

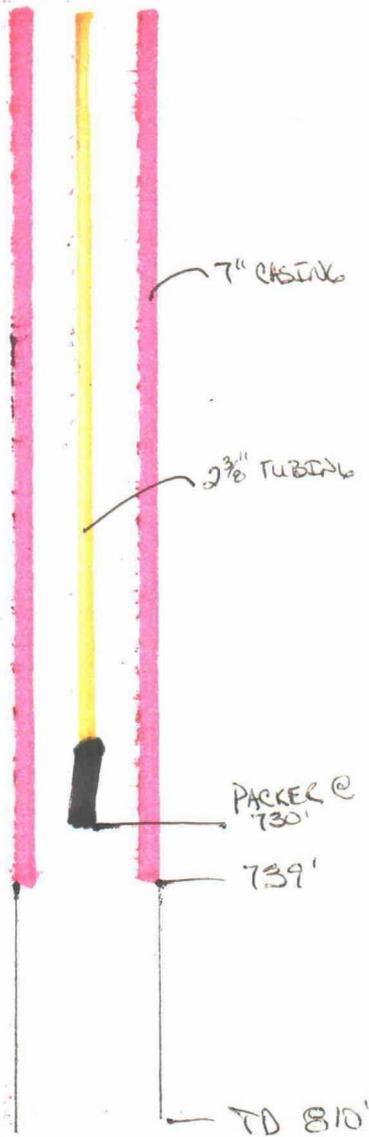
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

Operator Barber Oil, Inc Lease CC-050797 Wells Fed. Willis Fed.
 Well No. 10X Footage Location 2322' FSL And 1005 FWL Section 13 Township 20S Range 28E

Schematic



Tabular Data

Surface Casing

Size _____" Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size _____" Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size _____" Cemented with 100 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 8"
 Total depth 739'

Injection interval

775 feet to 800 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size 2 3/8" lined with _____ set in a _____
 (material)
Coupons 2' x 7" packer at 730 feet.
 (brand and model)

(or describe any other casing-tubing seal).

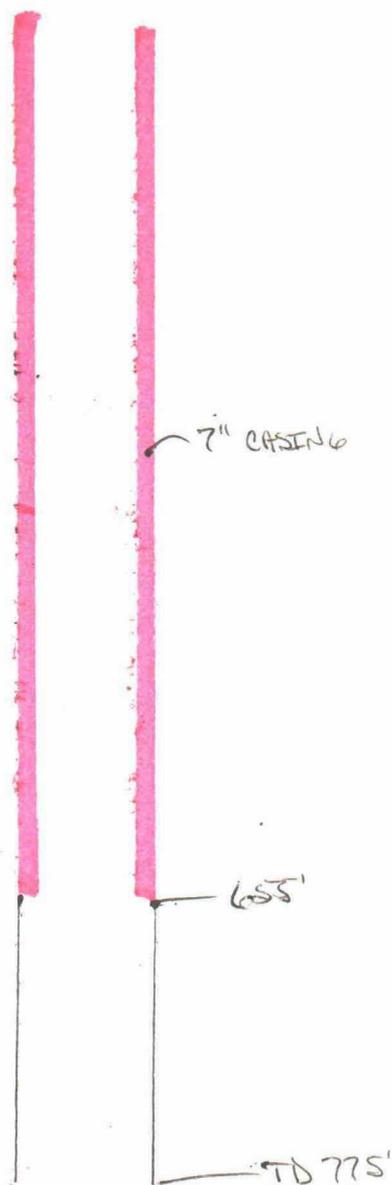
Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? PRODUCTION
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

BARREL OIL, INC. CC-050797 Wells Fed.
OPERATOR LEASE
14 330 FSL - 330 FEL 13 20s 28E
WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic



Tabular Data

Surface Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 7 " Cemented with 125 sx.
 TOC UNKNOWN feet determined by _____
 Hole size ~~8~~ 8"

Total depth 655

Injection interval

756 feet to 770 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size _____ lined with _____ set in a
(material)
(brand and model) packer at _____ feet.

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation YATES

2. Name of Field or Pool (if applicable) RUSSELL

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

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

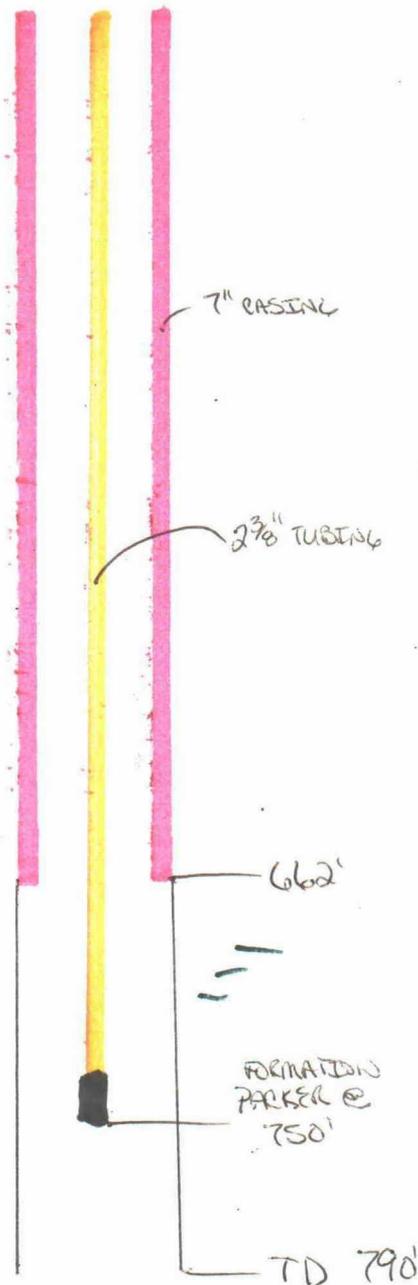
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

OPERATOR BARBER OIL, INC. LEASE CC-050797 WILCOX FED.
 WELL NO. 15 FOOTAGE LOCATION 996' FSL AND 330' FEL SECTION 14 TOWNSHIP 20S RANGE 28E

Schematic



Tabular Data

Surface Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 7 " Cemented with 12S sx.
 TOC UNKNOWN feet determined by _____
 Hole size 8 1/2" TO 7S4 8" TO 7S4 TO 7S4
 Total depth 662

Injection interval

764 feet to 784 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size 2 3/8 lined with CEMENT set in a
 (material)
(COULBERSA) 2" X 7" packer at 750 feet.
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

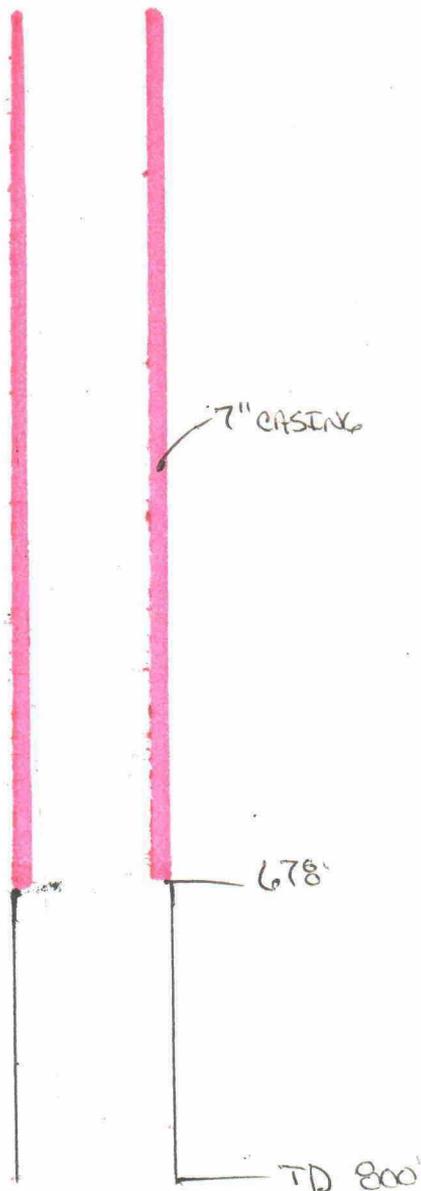
- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

OPERATOR BARREL OIL, Inc. LEASE CC-050797 Wills Fed.

WELL NO. 17 FOOTAGE LOCATION _____ SECTION 13 TOWNSHIP 20S RANGE 28E

Schematic



Tabular Data

Surface Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 7 " Cemented with 125 sx.
 TOC unknown feet determined by _____
 Hole size 8 1/2"
 Total depth 678'

Injection interval

780 feet to 800 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ packer at _____ feet.
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? PRODUCTION
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. None

INJECTION WELL DATA SHEET

BARBER OIL, Inc CC-050797 WELLS FED.
OPERATOR LEASE
18 338' FSL + 352' FWL 13 JOS 28 E
WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic



Tabular Data

Surface Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 7 " Cemented with 150 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 8 1/2"
 Total depth 670'

Injection interval

767 feet to 782 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size _____ lined with _____ set in a _____
(material)
 _____ packer at _____ feet.
(brand and model)

(or describe any other casing-tubing seal).

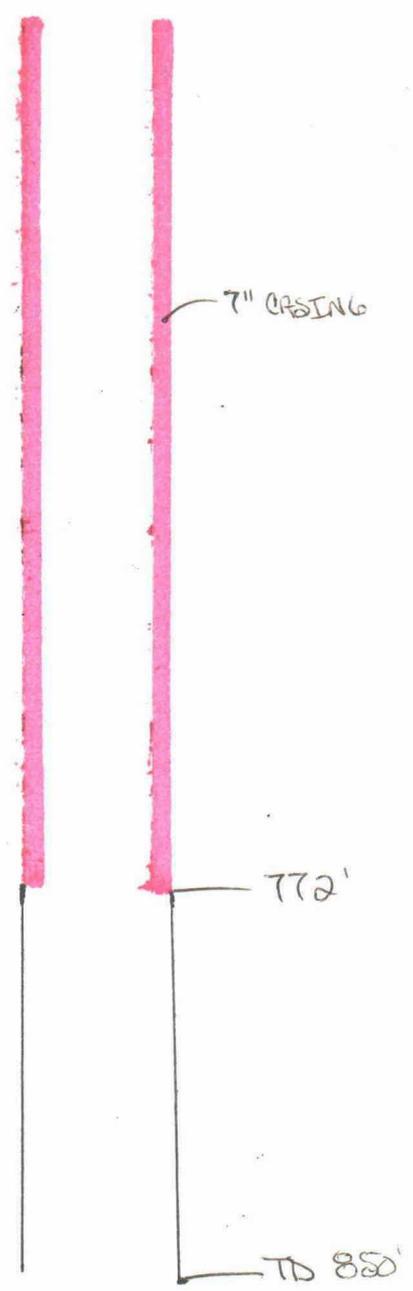
Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? PRODUCTION
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

OPERATOR BARBER OIL INC. LEASE LC-050797 WELLS FED. WELLS FED.
 WELL NO. 19 FOOTAGE LOCATION 2322' FNL 2333' FEL SECTION 13 TOWNSHIP 20s RANGE 28E

Schematic



Tabular Data

Surface Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size _____ 7 " Cemented with 150 sx.
 TOC unperforated feet determined by _____
 Hole size 8 1/2"
 Total depth 772'

Injection interval

829 feet to 849 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size _____ lined with _____ set in a _____ (material) _____ packer at _____ feet.
 (brand and model)

(or describe any other casing-tubing seal).

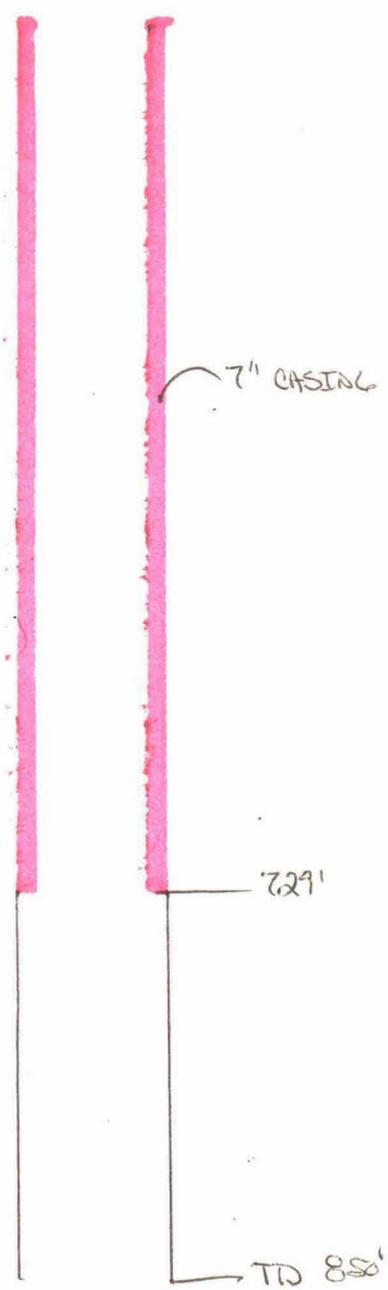
Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
If no, for what purpose was the well originally drilled? PRODUCTION
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

BARBER OIL INC CC-050797 WILCOX FED.
OPERATOR LEASE
21 11656' FNL & 11665' FEL 13 20S 28E
WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic



Tabular Data

Surface Casing
 Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____
Intermediate Casing
 Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____
Long string
 Size _____ 7" Cemented with 150 sx.
 TOC UNKNOWN feet determined by _____
 Hole size _____ 8 1/2"
 Total depth _____ 729'
Injection interval
832 feet to 848 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size _____ lined with _____ set in a _____
(material)
(brand and model) packer at _____ feet.

(or describe any other casing-tubing seal).

Other Data

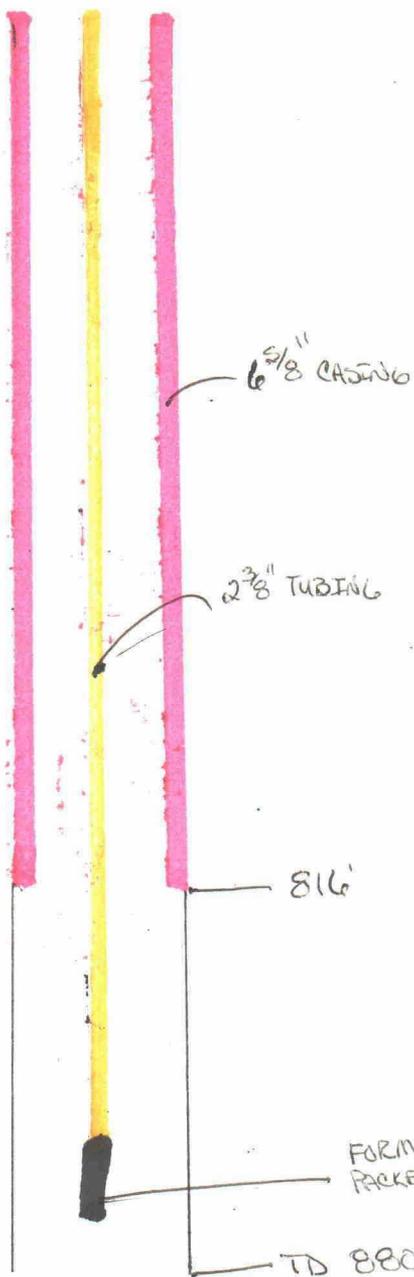
1. Name of the injection formation YATES
2. Name of Field or Pool (if applicable) RUSSELL
3. Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? PRODUCTION
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

OPERATOR BARREL OIL, Inc. LEASE C-050797 WILLS FLD
 WELL NO. 25 FOOTAGE LOCATION 660' FNL AND 2000' FEL SECTION 13 TOWNSHIP 20S RANGE 28E

Schematic

Tubular Data



Surface Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 6 5/8 " Cemented with 100 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 8 1/2 "
 Total depth ~~812~~ 816

Injection interval

850 feet to 873 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size 2 3/8 lined with _____ set in a _____ (material)
LYNES 2" X 4 1/4" packer at 845 feet.
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? PRODUCTION
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

OPERATOR BARBER OIL, INC.

LEASE CC-050797 WELLS LEASE

WELL NO. 26

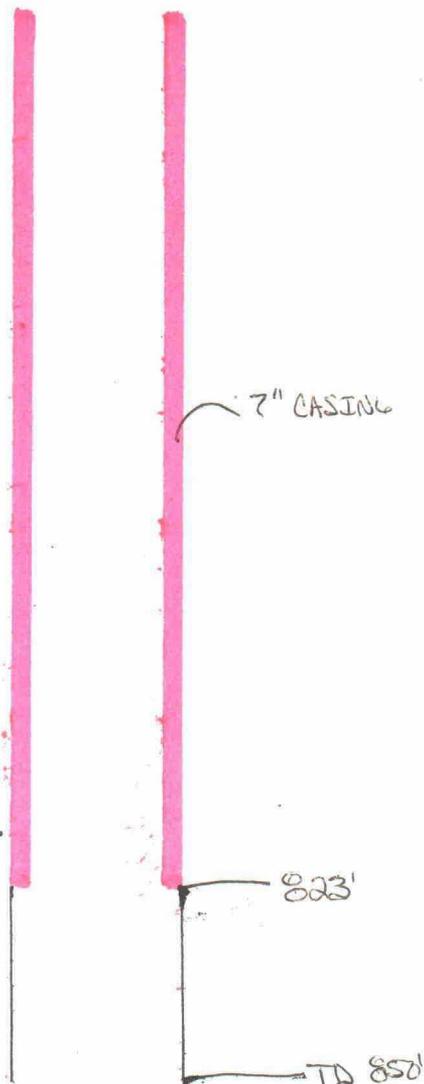
FOOTAGE LOCATION 1305' FNL & 1980' FEL

SECTION 13

TOWNSHIP 20S

RANGE 28E

Schematic



Tabular Data

Surface Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size _____" Cemented with 100 sx.

TOC UNKNOWN feet determined by _____

Hole size 8 1/2"

Total depth 823'

Injection interval

826 feet to 846 feet
(~~perforated~~ or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ packer at _____ feet.
(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation YATES

2. Name of Field or Pool (if applicable) RUSSELL

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

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

OPERATOR BARBER OIL, INC.

LEASE CC-050797 WELLS LEASE

WELL NO. 26

FOOTAGE LOCATION 1305' FNL & 1980' FEL

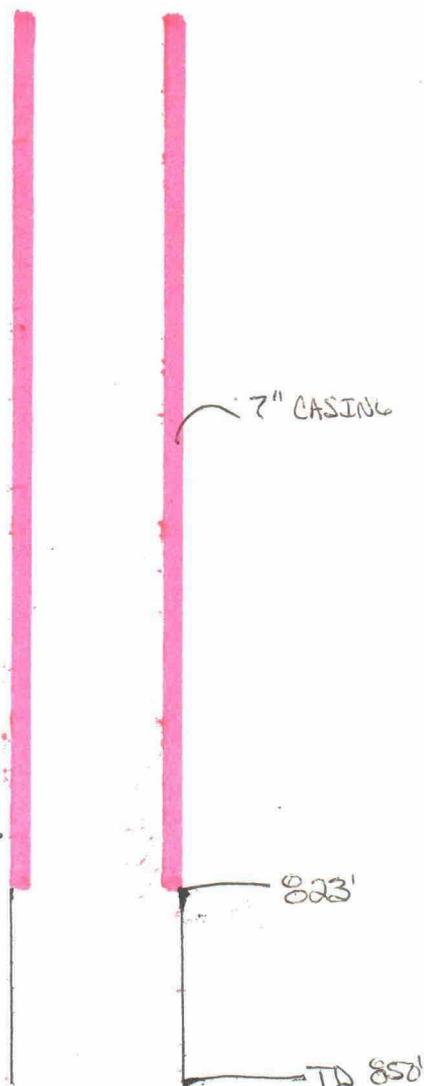
SECTION 13

TOWNSHIP 20S

RANGE 28E

Schematic

Tabular Data



Surface Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size _____" Cemented with 100 sx.

TOC UNKNOWN feet determined by _____

Hole size 8 1/2"

Total depth 823'

Injection interval

826 feet to 846 feet
(~~perforated~~ or open-hole, indicate which)

Tubing size _____ lined with _____ set in a _____
(material)
_____ packer at _____ feet.
(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation YATES

2. Name of Field or Pool (if applicable) RUSSELL

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

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO

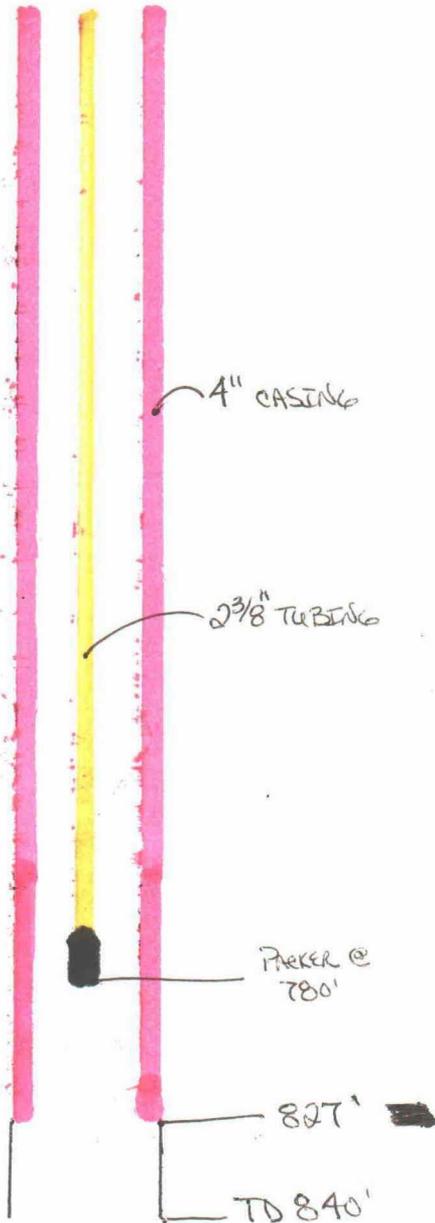
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

BARBER OIL INC. CC-050797 Wells Fed.
OPERATOR LEASE

27 1325' FSL & 660' FWL 13 20s 28E
WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic



Tabular Data

Surface Casing

Size _____" Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size _____" Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 4" Cemented with 450 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 5 1/2"
 Total depth 827'

Injection interval

791 feet to 819 feet
 (perforated or ~~open hole~~, indicate which)

Tubing size 2 3/8 lined with CEMENT set in a
(material)
QUIBERSON 2' X 4" packer at 780 feet.
(brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? PRODUCTION
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

BARBER OIL, INC
OPERATOR

CC-050797
LEASE

WELLS FED.

30
WELL NO.

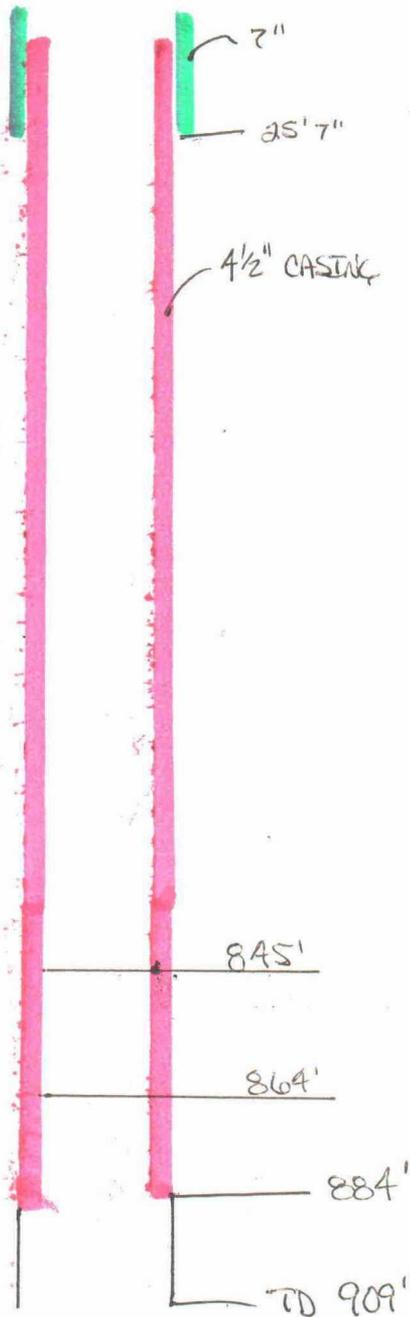
2310' FNL + 990' FEL
FOOTAGE LOCATION

13
SECTION

20S
TOWNSHIP

28E
RANGE

Schematic



Tabular Data

Surface Casing

Size _____ " Cemented with _____ sx.
TOC _____ feet determined by _____
Hole size _____

Intermediate Casing 1 JT.

Size _____ 7 " ^{as conductor} Cemented with _____ 10 _____ sx.
TOC _____ feet determined by _____
Hole size _____ 8 1/2 "

Long string

Size _____ 4 1/2 " Cemented with _____ 287 _____ sx.
TOC _____ 225' feet determined by _____ TS
Hole size _____ 6 1/4 "
Total depth _____ 884

Injection interval

_____ 845 feet to _____ 864 feet
(perforated or ~~open hole~~, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand and model) packer at _____ feet.

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
If no, for what purpose was the well originally drilled? Production

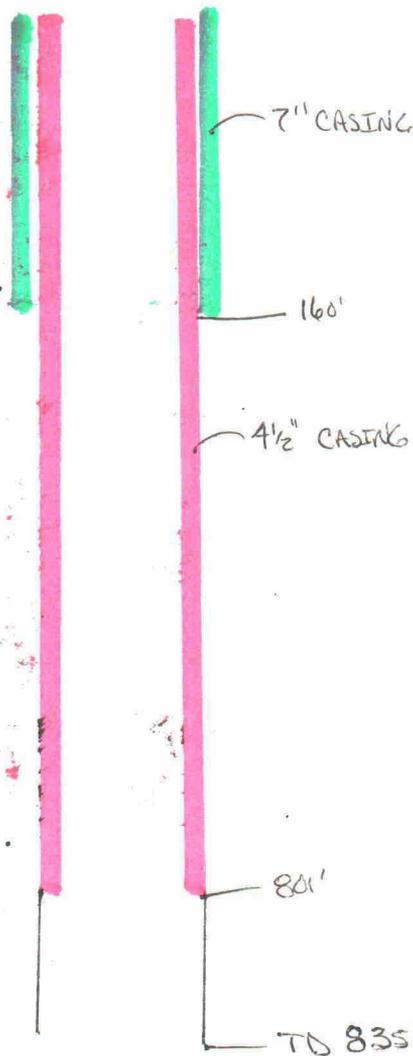
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

OPERATOR BARBER OIL, Inc. LEASE CC-050797 WILCOX FLD.
 WELL NO. 33 FOOTAGE LOCATION 1330' FSL + 1980' FWL SECTION 13 TOWNSHIP 20S RANGE 28E

Schematic



Tabular Data

Surface Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size 7 " Cemented with 15 sx.
 TOC _____ feet determined by _____
 Hole size 8 1/2 "

Long string

Size 4 1/2 " Cemented with 160 sx.
 TOC unknown feet determined by _____
 Hole size 6 1/4 "
 Total depth 801

Injection interval

800 feet to 820 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a
 _____ packer at _____ feet.
 (brand and model)

(or describe any other casing-tubing seal).

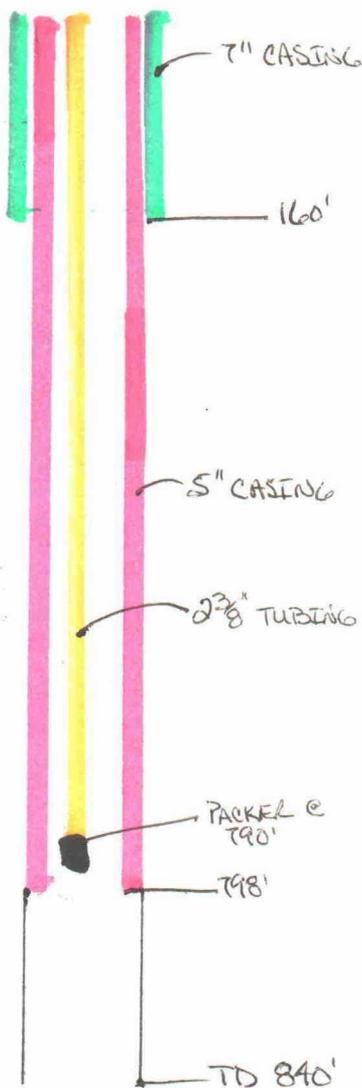
Other Data

- Name of the injection formation YATES
- Name of field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? PRODUCTION
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

OPERATOR BARBER OIL, INC LEASE LC-050797 Wells Fed.
 WELL NO. 34 FOOTAGE LOCATION 2630' F10L + 1980 FWL SECTION 13 TOWNSHIP 20S RANGE 28E

Schematic



Tabular Data

Surface Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size 7 " Cemented with 15 sx.
 TOC _____ feet determined by _____
 Hole size 8 1/2 "

Long string

Size 5 " Cemented with 60 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 6 1/4 "
 Total depth 798 "

Injection interval

799 feet to 808 feet
 (perforated or open-hole, indicate which)

Tubing size 2 3/8 " lined with PLASTIC set in a
 (material)
ARROW TYPE SL 2" X 4" packer at 790 feet.
 (brand and model)

(or describe any other casing-tubing seal).

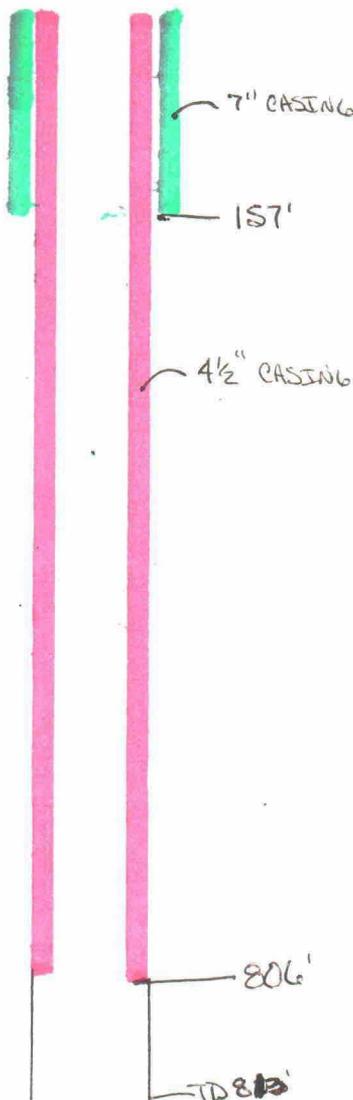
Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? PRODUCTION
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

OPERATOR BARBER OIL, Inc. LEASE LC-050797 Well Fed.
 WELL NO. 35 FOOTAGE LOCATION 1980' FNL + 2630 FEL SECTION 13 TOWNSHIP 20S RANGE 28E

Schematic



Tabular Data

Surface Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size 7" Cemented with 25 sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 4 1/2" Cemented with 60 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 6 1/4"
 Total depth 806

Injection interval

767 feet to 806 feet
 (perforated or open hole, indicate which)

Tubing size _____ lined with _____ (material) set in a
 _____ packer at _____ feet.
 (brand and model)

(or describe any other casing-tubing seal).

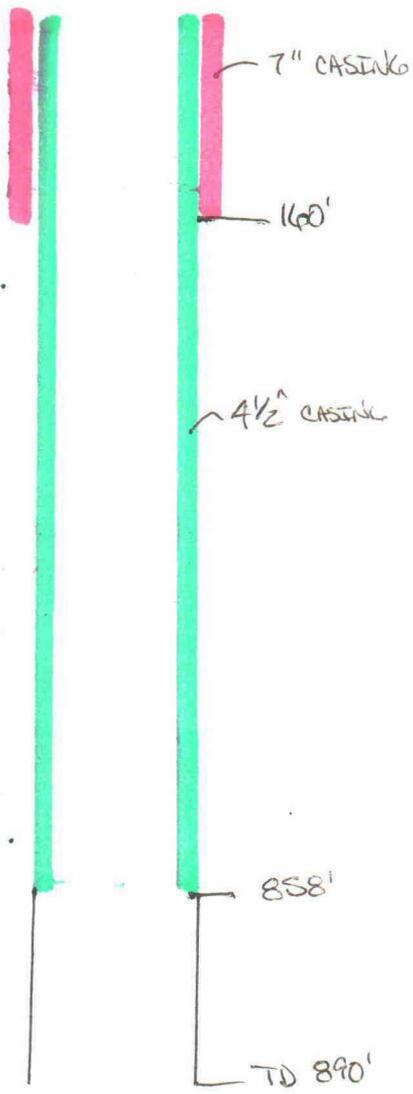
Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? PRODUCTION
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

OPERATOR BARBER OIL INC LEASE LC-050797 WELLS FED. WELLS FED.
 WELL NO. 36 FOOTAGE LOCATION 660' FNL + 1310' FEL SECTION 13 TOWNSHIP 20S RANGE 28E

Schematic



Tabular Data

Surface Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size 7 " Cemented with 25 sx.
 TOC _____ feet determined by _____
 Hole size 8 1/2 "

Long string

Size 4 1/2 " Cemented with 50 sx.
 TOC unknown feet determined by _____
 Hole size 6 1/4 "
 Total depth 858 "

Injection interval

858 feet to 881 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand and model) packer at _____ feet.

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? Production

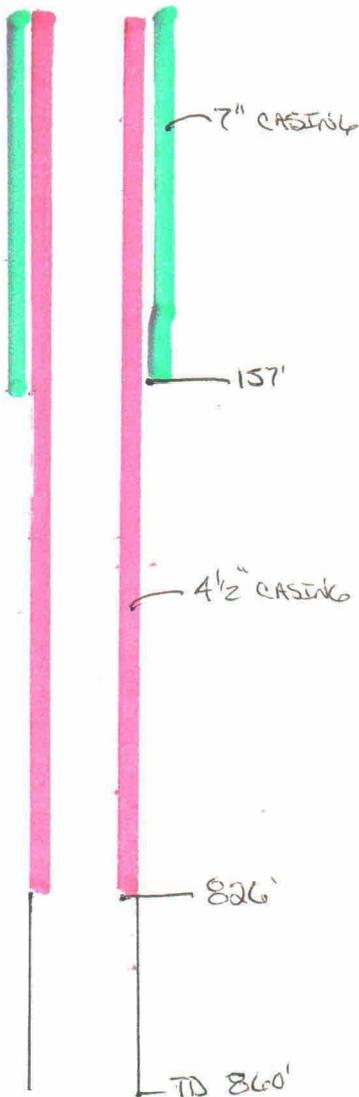
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

OPERATOR BARRER OIL INC LEASE CC-050797 W/OUS FEO
 WELL NO. 37 FOOTAGE LOCATION 660' FWL + 2630' FEL SECTION 13 TOWNSHIP 20S RANGE 28E

Schematic



Tabular Data

Surface Casing

Size _____" Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size 7" Cemented with 26 sx.
 TOC _____ feet determined by _____
 Hole size 8 1/2"

Long string

Size 4 1/2" Cemented with 100 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 6 1/4"
 Total depth 826'

Injection interval

832 feet to 854 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ packer at _____ feet.
 _____ (brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? PRODUCTION
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

Operator: BARBER OIL INC Lease: CC-050797 Wells Fed. WELLS FED.
 Well No. 39 Footage Location: 2630' FNL + 1980 FEL Section: 13 Township: 20s Range: 28E

Schematic



Tabular Data

Surface Casing

Size _____" Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size 7" Cemented with 15 sx.
 TOC _____ feet determined by _____
 Hole size 8 1/2"

Long string

Size 4 1/2" Cemented with 60 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 6 1/4"
 Total depth 850'

Injection interval

850 feet to 863 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size _____ lined with _____ set in a _____
 (material)
 _____ packer at _____ feet.
 (brand and model)

(or describe any other casing-tubing seal).

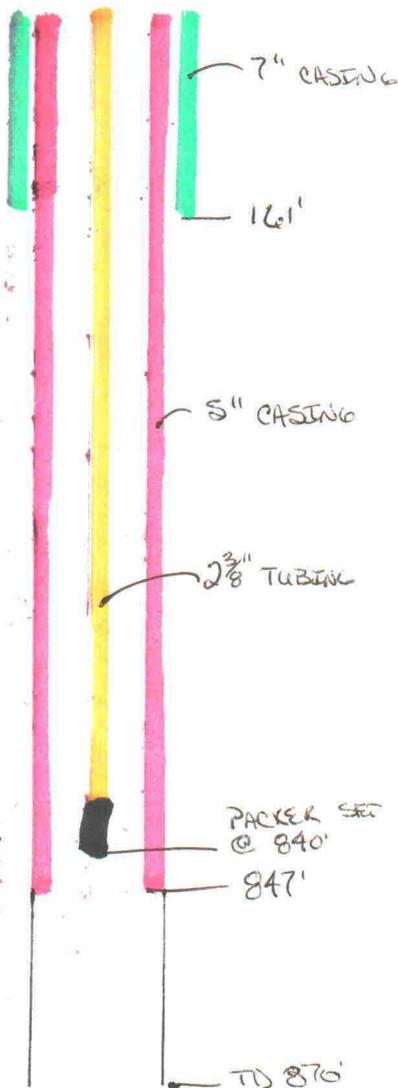
Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? Production
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

BARBER OIL, INC. CC-050797 WELLS FED.
OPERATOR LEASE
41 1310' FNL 1310' FEL 13 20s 28E
WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic



Tabular Data

Surface Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size 7 " Cemented with 15 sx.
 TOC _____ feet determined by _____
 Hole size 8 1/2 "

Long string

Size 5 " Cemented with 60 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 6 3/8 "
 Total depth 847 '

Injection interval

844 feet to 866 feet
 (perforated or open-hole, indicate which)

Tubing size 2 3/8 lined with PLASTIC set in a
(material)
ARROW 2' X 4" packer at 840 feet.
(brand and model)

(or describe any other casing-tubing seal).

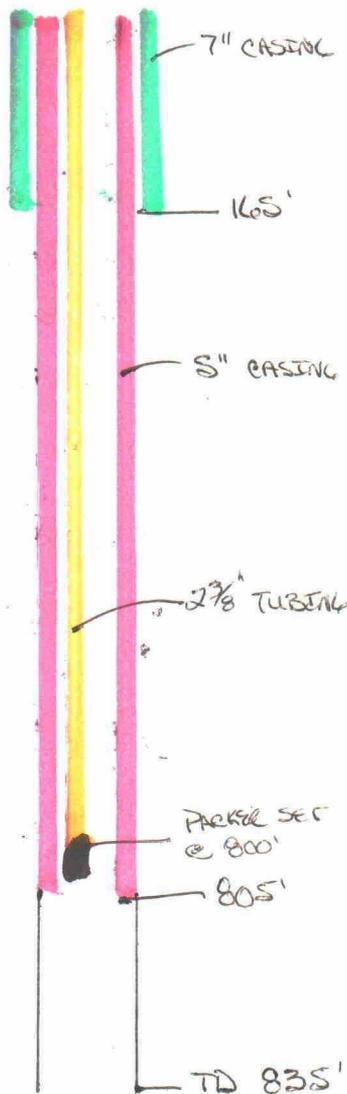
Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? PRODUCTION
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. DONE

INJECTION WELL DATA SHEET

OPERATOR BARTHEL OIL, Inc. LEASE 0-050797 WELLS FEO.
 WELL NO. 42 FOOTAGE LOCATION 1330' FSL + 1330 FWL SECTION 13 TOWNSHIP 20S RANGE 28E

Schematic



Tabular Data

Surface Casing

Size _____" Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size 7" Cemented with 15 sx.
 TOC _____ feet determined by _____
 Hole size 8 1/2"

Long string

Size 5" Cemented with 75 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 6 3/8"

Total depth 805'

Injection interval

802 feet to 826 feet
 (~~perforated~~ or open-hole, indicate which)

Tubing size 2 3/8" lined with PLASTIC set in a
 (material)
Arrow 2" X 4" packer at 800 feet.
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? PRODUCTION

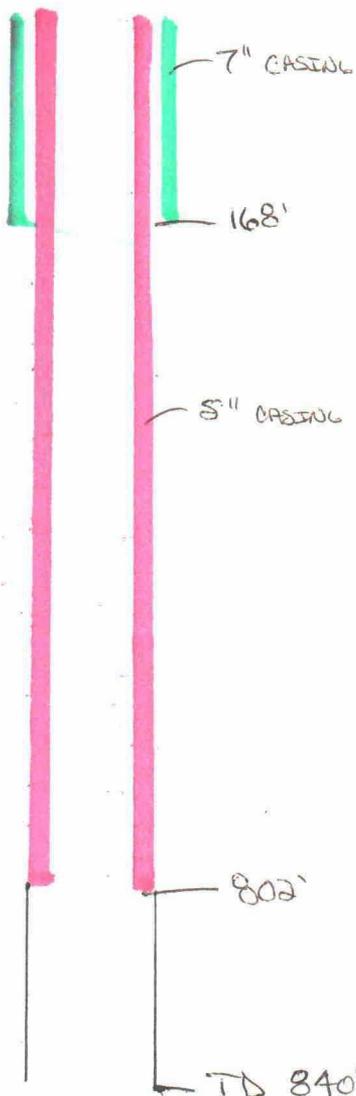
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. NONE

INJECTION WELL DATA SHEET

OPERATOR BARBER OIL INC. LEASE CC-050797 WILLS FLD.
 WELL NO. AS FOOTAGE LOCATION 1328 FNL + 2635' FEL SECTION 13 TOWNSHIP 20S RANGE 28E

Schematic



Tabular Data

Surface Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Intermediate Casing

Size 7 " Cemented with 15 sx.
 TOC _____ feet determined by _____
 Hole size 8 1/2 "

Long string

Size 5 " Cemented with 50 sx.
 TOC UNKNOWN feet determined by _____
 Hole size 6 3/8 "
 Total depth 802

Injection interval

810 feet to 834 feet
 (perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ packer at _____ feet.
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation YATES
- Name of Field or Pool (if applicable) RUSSELL
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? PRODUCTION
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. None



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

March 24, 1982

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

Barber Oil, Inc.
P.O. Box 1658
Carlsbad, NM 88220

ATTENTION: Robert S. Light

RE: Exception to Rule 705-A
for Injection Wells

Dear Sir:

Pursuant to your letter of March 4, 1982, requesting exception to Rule 705-A for your injection wells; the Oil Conservation Division (OCD) needs further information to be submitted. The information requested is as follows:

WELL DATA

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:

- (a) Lease name: Well No.; location by Section, Township, and Range; and footage location within the section.
- (b) Each casing string used with its size and weight setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (c) A description of the tubing to be used including its size, lining material, and setting depth.
- (d) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.
- (e) The name of the injection formation and, if applicable, the field or pool name. Also list each formation penetrated and tops thereof.
- (f) The injection interval and whether it is perforated or open-hole.
- (g) State if the well was drilled for injection or, if not, the original purpose of the well.
- (h) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

-2-

March 24, 1982

- (i) 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.
- (j) Attach appropriate logs and test data that were run that would substantiate mechanical integrity.
- (k) Submit the date when each injection well was shut-in.
- (l) Specify for each well, anticipated dates for resuming re-injection.
- (m) Relate each injection well to corresponding Division Orders, Case Numbers, and administrative approval (WFX, PMX, SWD, and Storage), where applicable.

Enclosed is a Memo concerning Rule 705-A which might help. If you have any questions regarding this matter, please call me at (505) 827-2533.

Sincerely,

Oscar Simpson
Water Resource Specialist

OS/dp

cc: Hobbs District Office
Artesia District Office

BARBER OIL, INC.
111 West Mermod
Post Office Box 1658
CARLSBAD, NEW MEXICO 88220
(505) 887-2566

March 4, 1982

New Mexico Oil Conservation Division
Energy & Minerals Department
P. O. Box 2088
Santa Fe, NM 87501

Attn: Joe D. Ramey

Re: Federal Oil & Gas Lease
LC-050797 - Russell Pool
Eddy County, New Mexico
Sec. 12, T20S, R28E N.M.P.M.

Gentlemen:

Under your Memo of September 30, 1981 as provided under Division Rule 705A whereby no injection well may be temporarily abandoned for more than six months; this company hereby requests an exception to Rule 705A on the following wells:

Under Crosby Federal- Well Nos. 1,2, &4
Under Turner Federal- Well Nos. 2,3,6,12,13,15,18,21, & 22
Under Wills Federal - Well Nos. 2,5,6,8,10,14,15,17,18,19,21,23,25,26,27,29,
30,33,34,35,36,37,39,41,42, & 45

The above wells are considered to be viable injection wells, not taking water at this time, yet valuable to a tertiary recovery program in the not to distant future. We feel these wells in no way damage the underground sources of drinking water as there is no drinking water in this interval in this area.

I enclose a copy of a letter from our consulting engineering firm, Stephens Engineering, under the signature of Joe L. Johnson, Jr. where he supports this request.

As captioned above this is a Federal oil & gas lease and comes under your jurisdiction through a ruling in the Federal Register/Vol. 47, No. 25/Friday, February 5, 1982/40CFR Part 123 and made effective that same date.

We would appreciate the OCD's concurrence with our request to retain these wells for a future recovery program.

Very truly yours,

Robert S. Light

MAR 9 1982
NEW MEXICO OIL CONSERVATION DIVISION
SANTA FE

CC: George H. Hunker, Jr.
Michael Stubblefield, OCD-Artesia
Joe L. Johnson, Jr.

Encl: 1

TELEPHONE - 817-723-2166



POST OFFICE BOX - 2249

WICHITA FALLS, TEXAS
76307

December 30, 1981

RECEIVED
DEC 9 1981
OIL CONSERVATION DIVISION
SANTA FE

Barber Oil, Inc.
P. O. Box 1658
Carlsbad, New Mexico 88220

Attn: Mr. Bob Light

Re: Injection Well Status
Barber Oil, Inc.
Russell Pool Project
Eddy County, New Mexico

Dear Mr. Light:

Reference is made to our conversation concerning the necessity to plug and abandon several of the inactive injection wells in the Barber Oil, Inc., Russell Pool Water Flood, Eddy County, New Mexico.

It is our understanding that the State of New Mexico requires that an injection well be plugged after a six month shut-in period. There are also other means in which the well can be maintained, these include returning the well to active operation, filing a workover or plugging plan, and/or filing a request for an exception to Rule 705A with the Division Director in Santa Fe.

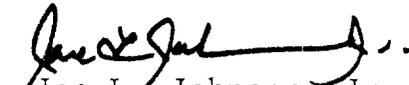
We are of the opinion that this project is a prime prospect for tertiary development in the not too distant future. Its shallow depth and remaining oil in place are extremely important in the use of this anticipated process. In view of this, it is extremely important that all wells be maintained and not plugged and abandoned since this would require a rather large expenditure in redrilling should such a process be undertaken in the future. For these reasons, we are of the opinion that a request for an exception to Rule 705A be filed with the Division Director in Santa Fe at the earliest possible date. We remain of the opinion that this project would be an excellent prospect for tertiary development but feel that the loss of any well in the project

area would make the installation of a tertiary project more difficult and therefore possibly force a long delay period for the installation of such a project.

Should there be any questions, please do not hesitate to contact us.

Yours very truly,

STEPHENS ENGINEERING


Joe L. Johnson, Jr.

JLJjr/dk