

Jason Kellahin  
W. Thomas Kellahin  
Karen Aubrey

KELLAHIN and KELLAHIN  
*Attorneys at Law*  
El Patio - 117 North Guadalupe  
Post Office Box 2265  
Santa Fe, New Mexico 87504-2265

Telephone 982-4285  
Area Code 505

March 4, 1985

RECEIVED

1985

Mr. Richard L. Stamets  
Oil Conservation Division  
Post Office Box 2088  
Santa Fe, New Mexico 87501

OIL CONSERVATION DIVISION

"Certified Mail-  
Return Receipt"

Re: Hicks Oil & Gas, Inc.  
Salt Water Disposal  
Section 17, T28N, R13W, NMPM  
San Juan County, New Mexico

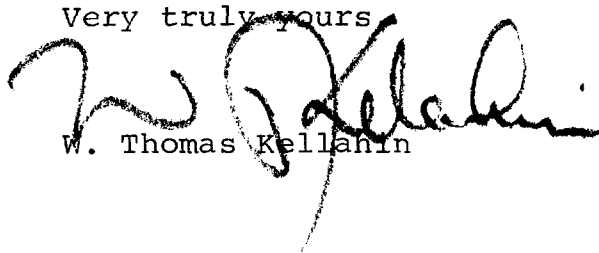
*Case 8548*

Dear Mr. Stamets:

On February 18, 1985, on behalf of Hicks Oil & Gas Inc. I filed an application which is set for hearing on March 27, 1985, for approval of the SE Cha Cha Well 20, located in Unit J of the referenced Section 17 for use of the Gallup formation for disposal.

Please find enclosed the required Division Form C-108 and attachments. By copy of this letter we are sending Form C-108 by certified mail-return receipt to the surface owner, the OCD District Office, and all operators within a one-half mile radius.

Very truly yours



W. Thomas Kellahin

WTK:sg  
Enc.

cc: Mr. Frank Chavez  
Oil Conservation Div.  
1000 Rio Brazos Road  
Aztec, NM 87410

Mr. Mike Hicks  
Hicks Oil & Gas Inc.  
P. O. Drawer 3307  
Farmington, NM 87499

Bureau of Indian Affairs  
Navajo Indian Irrigation Pro.  
3539 E. 30th Street  
N.W. Energy Bldg., Room 103  
Farmington, NM 87401

Southland Royalty Company  
P. O. Box 570  
Farmington, N.M. 87499  
Attn: Mr. Robert Fielder

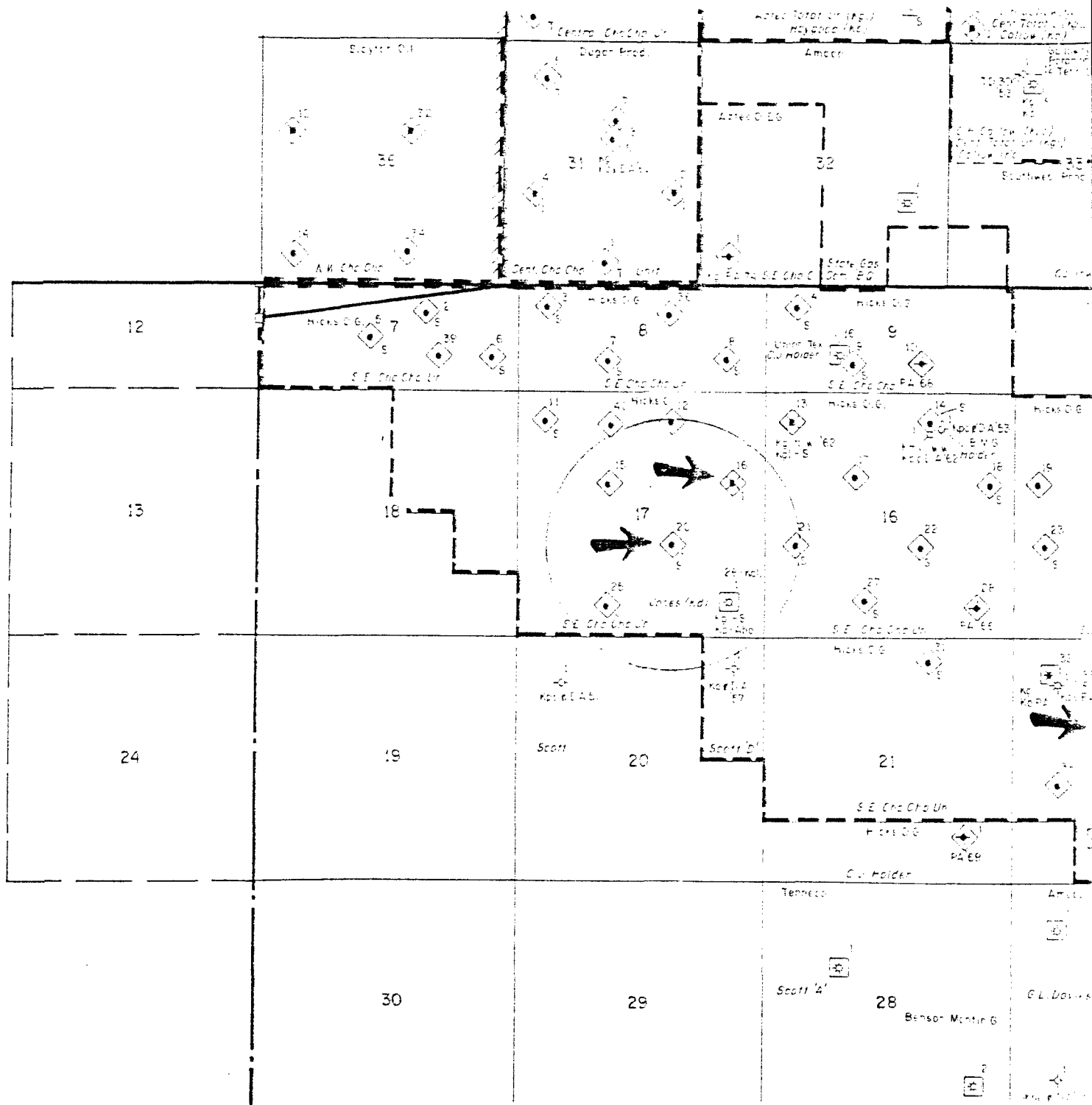
Case 8548  
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## APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☒ Storage  
Application qualifies for administrative approval? ☐ yes ☒ no
- II. Operator: Hicks Oil & Gas, Inc.  
Address: P.O. Drawer 3307, Farmington, N.M. 87499  
Contact party: Mike Hicks Phone: 505/327-4902
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☐ yes ☒ 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:
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 geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification
- I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- Name: Mike Hicks Title: President  
Signature: [Signature] Date: 1/17/85
- If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

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N

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## INJECTION WELL DATA SHEET

Case 8548

Hicks Oil &amp; Gas, Inc.

S.E. Cha Cha

OPERATOR

LEASE

20  
WELL NO.1980' FNL & 1980' FWL  
FOOTAGE LOCATION17  
SECTIONT28N  
TOWNSHIPR13W  
RANGE

## Schematic

## Tabular Data

## Surface Casing

Size 8 5/8"-24# " Cemented with 200 sx.TOC Surface feet determined by CirculationHole size 12 1/4"

## Intermediate Casing

Size \_\_\_\_\_ " Cemented with \_\_\_\_\_ sx.

TOC \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole size \_\_\_\_\_

## Long string

Size 5 1/2"-15.5# " Cemented with 175 sx.TOC Unknown feet determined by \_\_\_\_\_Hole size 7 7/8"Total depth 5722'

## Injection interval

5623' feet to 5627' feet perforated  
(perforated or open-hole, indicate which)

Proposed Baker Model 'D' Packer @ 5550'

Perforations 5623-5627 Gallup

C.I.B.P. @ 5640'

Perforations 5660-5676 Gallup

Tubing size 2 3/8" lined with plastic or fiberglass set in a  
(material)Baker Model "D" packer at 5550 feet.  
(brand and model)

(or describe any other casing-tubing seal).

## Other Data

1. Name of the injection formation Gallup
2. Name of field or Pool (if applicable) S.E. Cha Cha
3. Is this a new well drilled for injection? ☐ Yes ☒ No  
If no, for what purpose was the well originally drilled? Oil Well

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)

Gallup perforated 5660'-5676' Cast Iron Bridge Plug @5640'

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Picture Cliff gas zone approximately 3800' above Dakota Gas zone  
approximately 1500' below.

P. O. DRAWER 3307  
FARMINGTON, NM 87499  
505-327-4902

APPLICATION FOR SALT WATER DISPOSAL  
S.E. CHA CHA UNIT WELL # 20

VII

1. Lease production currently averages 90 BWPB and this volume would be split between other injection wells. Also, we are planning to operate the injection well for commercial salt water disposal. At this time, it is estimated that we will be disposing of 100 bbls of water per day from wells off the lease. We do anticipate this volume to increase as the NMOCD revises it's rules concerning disposal of produced water in unlined pits. From injection records of wells in the field when the unit was actively water flooded it is estimated that 750 BWPB could be injected at 1000 psi.
2. The system will be an open system.
3. Average injection pressure 500 psi. Maximum injection pressure 1000 psi.
4. Sources of injected water.
  1. Produced water from the lease. Water analysis attached.
  2. Produced water from San Juan Basin oil and gas wells.  
Typical water analysis attached.

IX Stimulation treatment will consist of 500-1000 gallons of 15% Iron Sequestering HCL acid. If necessary the well may be frac treated with approximately 30,000 gallons of gelled water and 30,000# of 20/40 sand.

X Well logs on file with NMOCD.

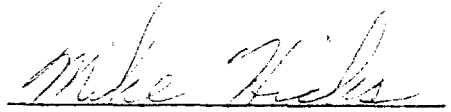
XI No fresh water wells within one mile.

# Hicks Oil & Gas, Inc.

P. O. DRAWER 3307  
FARMINGTON, NM 87499  
505-327-4902

## XII Affirmative Statement

I, Mike Hicks, have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

A handwritten signature in cursive script that reads "Mike Hicks". The signature is written in dark ink and is positioned above a horizontal line.

Mike Hicks  
President  
Hicks Oil & Gas, Inc.

ROY L. PRITCHARD - PETROLEUM GEOLOGIST

Petroleum Club Plaza Suite 103 • P.O. Box 2372 • Farmington, New Mexico 87499 • Telephone: (505) 325-2209

CHA CHA GALLUP

Producing sandstone of the Cha Cha Gallup Oil Pool are the result of the transition of the regressive Carlile Seas, leaving the Gallup sandstones and the transgressive Niobrara Seas. The advancing seas caused truncation of the Gallup and deposition of new sands, silts and muds. The lower sands are cleaner and generally thought to be offshore bars deposited by currents parallel to the shore line. These basal Niobrara sandstones are oil bearing as are some of the cleaner Gallup sandstones.

The entire complex of upper Carlile-lower Niobrara sandstones has been known as "the Gallup" since the late nineteen fifties when production began along the Bisti-Horseshoe Canyon trend.

Several of the basal Niobrara sandstones are present in the Cha Cha Gallup Pool.

These sandstones have been described as follows:

Light-gray to gray-brown, fine to coarse grained quartz sandstone with minor chert, feldspar and rock fragments. Traces of glauconite and mica are present. Cement is primarily calcite with some secondary quartz. There is porosity present and oil staining is evident.

DRINKING WATER SOURCES

Considerable effort was made to obtain chemical analyses of the water bearing rocks in Township 28 North, Range 13 West, San Juan County, N.M. These efforts failed but analyses were observed of waters taken from sources outside the township which had similar ages and depositional histories.

The analyses showed the following:

1. There is no known source of potable\* water immediately below the Cha Cha Gallup producing zones.
2. The only potable water aquifers found above the injection zones (Cha Cha Gallup) are:
  - a. the Cretaceous Kirtland (Farmington Sandstone) at depths of 630-815' in section 21. (This information obtained from Ed Welder, U.S.G.S., Albuquerque.

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DRINKING WATER SOURCES cont.

- b. the Ojo Alamo (Tertiary Period) has water with very low solids (350-850 mg/l). This is found to a depth of 350-450' in the area of interest.

\*All references herein to potable or drinking water are based on dissolved solids of 10,000 mg/l or less as found in item VIII of Application for Authorization to Inject.

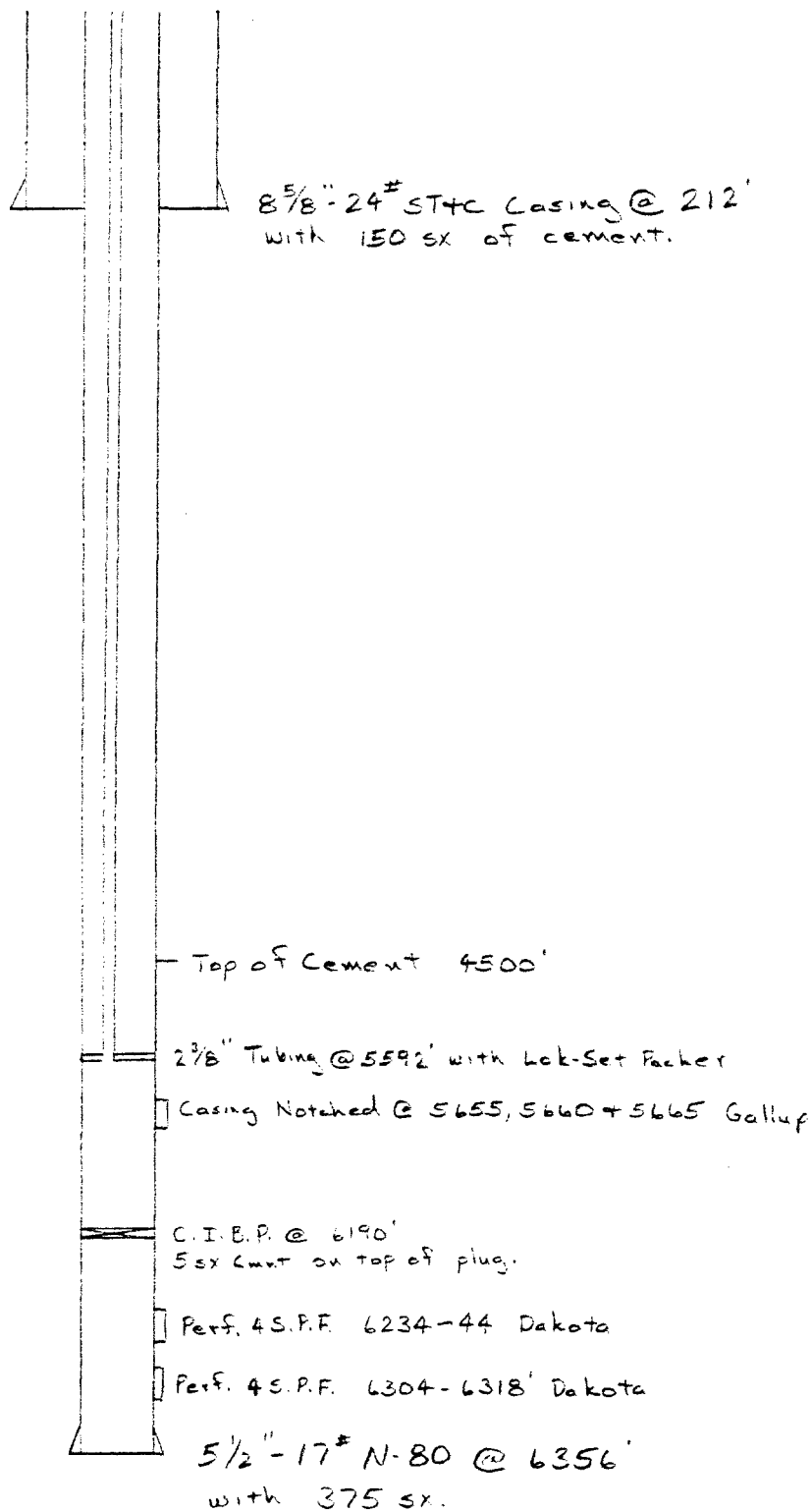
TABULATION OF WELLS  
WITHIN ½ MILE RADIUS  
OF PROPOSED SALT WATER DISPOSAL WELL  
S.E. CHA CHA UNIT WELL # 20

| WELL             | LOCATION   | SURFACE<br>CASING | CEMENT | T.O.C.  | PRODUCTION<br>CASING | CEMENT            | T.O.C.         | PRODUCING<br>INTERVAL                        | TD    | LINER                               |
|------------------|------------|-------------------|--------|---------|----------------------|-------------------|----------------|----------------------------------------------|-------|-------------------------------------|
| S.E. Cha Cha #12 | B-17-28-13 | 8 5/8 @272        | 235sx  | surface | 4½ @5821'            | 175sx<br>sq.600sx | 4260'<br>2750' | Gallup<br>5684-5754                          | 5824  | 3½ @4582'<br>w/75sk<br>T.O.C. Unk.  |
| S.E. Cha Cha #15 | F-17-28-13 | 8 5/8 @254        | 200sx  | surface | 4½ @5748             | 175sx<br>sq.200sx | 4450'<br>3650' | Gallup<br>5618-26                            | 5748  | 3½ @4502<br>w/115sx<br>T.O.C. surf. |
| S.E. Cha Cha #16 | H-17-28-13 | 8 5/8 @249        | 225sx  | surface | 4½ @5824'            | 175sx             | 4350           | Gallup<br>5684-5764                          | 5817  |                                     |
| S.E. Cha Cha #21 | L-16-28-13 | 8 5/8 @214'       | 175sx  | surface | 4½ @5856             | 225sx             | unknown        | Gallup<br>5683-90                            | 5860  |                                     |
| S.E. Cha Cha #25 | N-17-28-13 | 8 5/8 @283'       | 225sx  | surface | 4½ @5699             | 200sx             | unknown        | Gallup<br>5564-5605                          | 5700' |                                     |
| S.E. Cha Cha #26 | P-17-28-13 | 8 5/8 @212'       | 150sx  | surface | 5½ @6356             | 375sx             | 4500'          | Dakota P&A<br>6234-6318<br>Gallup<br>5655-65 | 6358' |                                     |

S.E. Cha Cha Unit Well #26

Unit P- Sec. 17, Twn 28N, Rge 13W

Well Schematic



## APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage  
Application qualifies for administrative approval? ☐ yes ☒ no

II. Operator: Hicks Oil & Gas, Inc.

Address: P.O. Drawer 3307, Farmington, N.M. 87499

Contact party: Mike Hicks Phone: 505/327-4902

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? ☐ yes ☒ 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.

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VII. Attach data on the proposed operation, including:

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 geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

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XII. Applicants for disposal wells must have an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Mike Hicks Title: President

Signature: [Signature] Date: 1/17/85

XV. If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

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# INJECTION WELL DATA SHEET

Hicks Oil & Gas, Inc.

S.E. Cha Cha

UPPER WATER

PLATE

20  
WELL NO.

1980' FNL & 1980' FWL  
FOOTAGE LOCATION

17  
SECTION

T28N  
TOWNSHIP

R13W  
RANGE

## Schematic

## Tabular Data

### Surface Casing

Size 8 5/8"-24# " Cemented with 200 sx.

10C Surface feet determined by Circulation

Hole size 12 1/4"

### Intermediate Casing

Size " Cemented with sx.

10C feet determined by

Hole size

### Long string

Size 5 1/2"-15.5# " Cemented with 175 sx.

10C Unknown feet determined by

Hole size 7 7/8"

Total depth 5722'

### Injection interval

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(perforated or open-hole, indicate which)

Proposed Baker Model 'D' Packer @ 5550'

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# Hicks Oil & Gas, Inc.

1/17/85

P. O. DRAWER 3307  
FARMINGTON, NM 87499  
505-327-4902

## APPLICATION FOR SALT WATER DISPOSAL S.E. CHA CHA UNIT WELL # 20

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Mike Hicks  
President  
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DRINKING WATER SOURCES cont.

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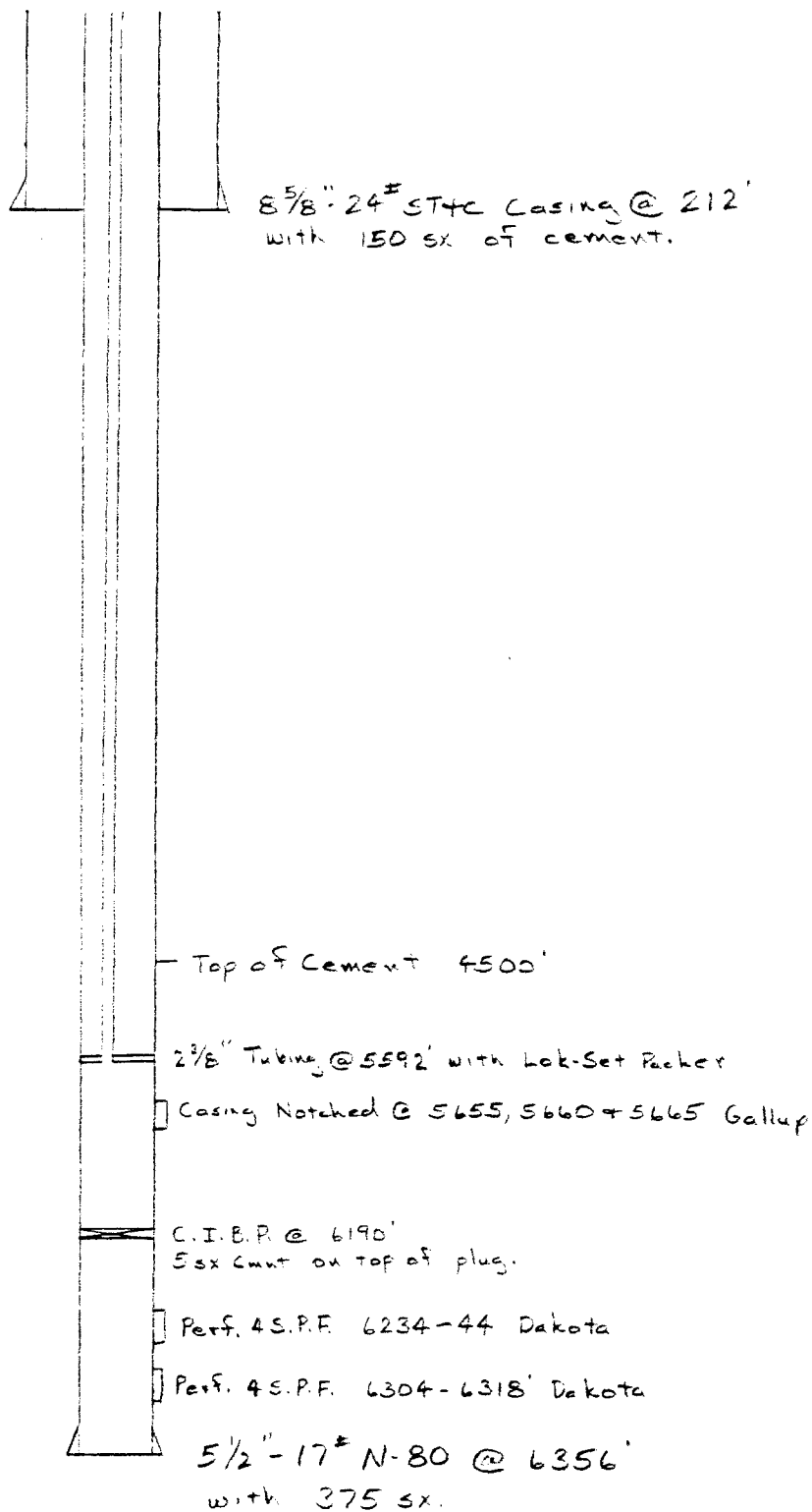
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WITHIN ½ MILE RADIUS  
OF PROPOSED SALT WATER DISPOSAL WELL  
S.E. CHA CHA UNIT WELL # 20

| WELL             | LOCATION   | SURFACE<br>CASING | CEMENT | T.O.C.  | PRODUCTION<br>CASING | CEMENT            | T.O.C.         | PRODUCING<br>INTERVAL                        | TD    | LINER                               |
|------------------|------------|-------------------|--------|---------|----------------------|-------------------|----------------|----------------------------------------------|-------|-------------------------------------|
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S.E. Cha Cha Unit Well #26

Unit P- Sec. 17, Twn 28N, Rge 13W

Well Schematic





STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6178

OIL CONSERVATION DIVISION  
BOX 2088  
SANTA FE, NEW MEXICO 87501

DATE 3-20-85

RE: Proposed MC \_\_\_\_\_  
Proposed DHC \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed SWD X \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_

Gentlemen:

I have examined the application dated 3-5-85  
for the Hicks Oil & Gas SE 1/4 CHA UNIT #20 F-17-28N-13W  
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Docketed for hearing March 27th  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours truly,

[Signature]