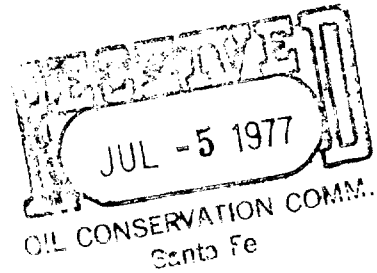


H I R A M W. K E I T H

REGISTERED PROFESSIONAL PETROLEUM ENGINEER
PRODUCER AND PROPERTY MANAGEMENT
709 EAST AUSTIN STREET
KERMIT, TEXAS 79745



June 28, 1977

New Mexico Oil Conservation Commission
Box 2088
Santa Fe, New Mexico

Re: Form C-108, State "C" Well No. 2, Lea County,
New Mexico

Gentlemen:

We have enclosed froms C-108 and C-103 for the purpose of converting the subject wells for salt water disposal.

We are respectfully requesting administrative approval of these wells, We believe this request is reasonable for the following reasons:

- (a) There are no other operators within approximately 2 miles.
- (b) A hearing before you Commission was held in February 1969 and approved for converting our State Well No. 2 to salt water disposal into the same formations. The State No. 2 well is a west offset to our State "C" lease.

Yours very truly,

Wm. M. M. M.

Hiram W. Keith

HWK : mmk

Enclosure

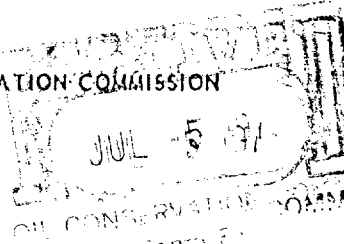
R-3612 ~~4 369~~

1. *U. lutea* (L.) ...
 2. *U. lutea* (L.) ...
 3. *U. lutea* (L.) ...
 4. *U. lutea* (L.) ...
 5. *U. lutea* (L.) ...
 6. *U. lutea* (L.) ...
 7. *U. lutea* (L.) ...
 8. *U. lutea* (L.) ...
 9. *U. lutea* (L.) ...
 10. *U. lutea* (L.) ...

| | |
|------------------------|---|
| NO. OF COPIES RECEIVED | |
| DISTRIBUTION | |
| SANITARY | 1 |
| FILE | 1 |
| U.S.C.S. | 1 |
| LAND OFFICE | 1 |
| OPERATOR | 1 |

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65



| |
|--|
| 5a. Indicate Type of Lease |
| State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> |
| 5. State Oil & Gas Lease No. |
| 2159 |

SUNDY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO CEMENT OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE APPLICATION FOR PERMIT - 1 (FORM C-101) FOR SUCH PROPOSALS.)

| |
|---|
| 1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- Salt Water Injection Well |
| 2. Name of Operator Hiram W. Keith & Dalton Haines |
| 3. Address of Operator Box 844 Kermit, Texas 79745 |
| 4. Location of Well UNIT LETTER I 1980 FEET FROM THE South LINE AND 990 FEET FROM East TIE East LINE, SECTION 16 TOWNSHIP 21S RANGE 34E NMPM. |
| 15. Elevation (Show whether DF, RT, GR, etc.) 3730 KB |

| |
|---|
| 7. Unit Agreement Name |
| 8. Form or Lease Name State C |
| 9. Well No. 1 2 |
| 10. Field and Pool, or Wildcat West Wilson |
| 12. County Lea |

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

| | |
|--|--|
| NOTICE OF INTENTION TO: | SUBSEQUENT REPORT OF: |
| PERFORM REMEDIAL WORK <input type="checkbox"/> | REMEDIAL WORK <input type="checkbox"/> |
| TEMPERARILY ABANDON <input type="checkbox"/> | COMMENCE DRILLING OPNS. <input type="checkbox"/> |
| PULL OR ALTER CASING <input type="checkbox"/> | CASING TEST AND CEMENT JOBS <input type="checkbox"/> |
| OTHER <input type="checkbox"/> | OTHER T.A. Salt Water Disposal <input checked="" type="checkbox"/> |
| PLUG AND ABANDON <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| CHANGE PLANS <input type="checkbox"/> | PLUG AND ABANDONMENT <input type="checkbox"/> |

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1503.

Purpose of this request is to ask for administrative approval to use the subject well for salt water disposal in the seven river formation.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

| | | |
|---------------------------------|-----------------------|---------------------|
| SIGNED <u>Hiram W. Keith</u> | TITLE <u>Co-Owner</u> | DATE <u>6-28-77</u> |
| APPROVED BY _____ | TITLE _____ | DATE _____ |
| CONDITIONS OF APPROVAL, IF ANY: | | |

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

Form C-108
Revised 3-1-68

JUL -5 1977

| | | | |
|---|----------|------------------------------|--------|
| OPERATOR | | ADDRESS | |
| Hiram W. Keith & Dalton Haines | | Box 844, Kermit, Texas 79745 | |
| LEASE NAME | WELL NO. | FIELD | COUNTY |
| State "C" | 2 | West Wilson | Lea |
| LOCATION | | | |
| UNIT LETTER <u>1</u> ; WELL IS LOCATED <u>1980</u> FEET FROM THE <u>S</u> LINE AND <u>990</u> FEET FROM THE <u>E</u> LINE, SECTION <u>16</u> TOWNSHIP <u>21S</u> RANGE <u>34E</u> NMPM. | | | |

CASING AND TUBING DATA

| NAME OF STRING | SIZE | SETTING DEPTH | SACKS CEMENT | TOP OF CEMENT | TOP DETERMINED BY |
|--|---------|---|--|---|---|
| SURFACE CASING | 12 1/2" | 195 | 75 | Surface | |
| INTERMEDIATE | | | | | |
| LONG STRING | 7 | 3870 | 175 | 2592' | Calculations |
| TUBING | 2 | 3825 | NAME, MODEL AND DEPTH OF TUBING PACKER Buker Model A D-1 Tension 2" packer 3825 | | |
| NAME OF PROPOSED INJECTION FORMATION Seven Rivers & Yates | | | TOP OF FORMATION 3660 | | BOTTOM OF FORMATION 3948 |
| IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? | | PERFORATIONS OR OPEN HOLES? | | PROPOSED INTERVAL(S) OF INJECTION | |
| Casing | | O. H. | | 3870-3948 | |
| IS THIS A NEW WELL DRILLED FOR DISPOSAL? | | IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? | | | HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? |
| No | | Production | | | No |
| LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH | | | | | |
| DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 350 ft. Est. | | DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA None | | DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA None | |
| ANTICIPATED DAILY INJECTION VOLUME (BBL'S.) | MINIMUM | MAXIMUM | OPEN OR CLOSED TYPE SYSTEM | IS INJECTION TO BE BY GRAVITY OR PRESSURE? | APPROX. PRESSURE (PSIG) |
| 200 | 180 | 220 | Closed | Pressure | 500 |
| ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK IRRIGATION, OR OTHER GENERAL USE - | | | WATER TO BE DISPOSED OF | NATURAL WATER IN DISPOSAL ZONE | ARE WATER ANALYSES ATTACHED? |
| | | | Yes | Yes | Yes |
| NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) | | | | | |
| State | | | | | |
| LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL | | | | | |
| None | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? | | SURFACE OWNER | | EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL | |
| | | No | | No other operators | |
| ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) | | PLAT OF AREA | | ELECTRICAL LOG | |
| | | Yes | | Yes | |
| | | | | DIAGRAMMATIC SKETCH OF WELL | |
| | | | | No | |

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

(Signature)

Co-owner & Operator

(Title)

6-28-77

(Date)

NOTE: Should waivers from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.

WATER ANALYSIS REPORT

COMPANY Keith - Haines

ADDRESS Lee, New Mexico

DATE

SOURCE State #1 (Discharge Pump)

DATE SAMPLED

ANALYST

Analysis

Mg/L

NO.

WATER

1. PH 6.9
2. H₂S (Qualitative) Pos.
3. Spec. Gr. Gravity 1.005
4. Dissolved Solids 21,922
5. Suspended Solids 990
6. Phenolphthalein Alkalinity (CaCO₃)
7. Methyl Orange Alkalinity (CaCO₃)
8. Bicarbonate (HCO₃)
9. Chlorides (Cl)
10. Sulfates (SO₄)
11. Calcium (Ca)
12. Magnesium (Mg)
13. Total Hardness (CaCO₃)
14. Total Iron (Fe)
15. Barium (Qualitative)

| | | | | |
|------------------|-------|------|------|------------------|
| HCO ₃ | 1,208 | 61 | 19.8 | HCO ₃ |
| Cl | 117 | 35.3 | 117 | Cl |
| SO ₄ | 54 | 48 | 54 | SO ₄ |
| Ca | 50 | 20 | 50 | Ca |
| Mg | 26 | 2.2 | 26 | Mg |

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

| | | |
|-----|----|------|
| 501 | Ca | 15.3 |
| 20 | Mg | 54 |
| 115 | Na | 117 |

Saturation Values Distilled Water 20°C

Ca CO₃ 10 Mg/L

Ca SO₄ 2.0 Mg/L

Mg CO₃ 3 Mg/L

| | | |
|--------------------|------|-------|
| Ca CO ₃ | 15.3 | Mg/L |
| Ca SO ₄ | 30 | 2,045 |
| Mg CO ₃ | 24 | 1,450 |
| Mg SO ₄ | 2 | 95 |
| Na | 117 | 5,730 |

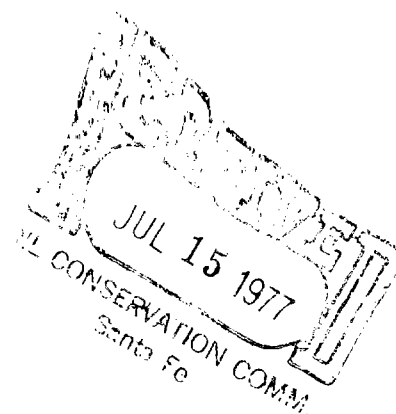
REMARKS

ANALYST'S SIGNATURE

DATE

HIRAM W. KEITH

REGISTERED PROFESSIONAL PETROLEUM ENGINEER
PRODUCER AND PROPERTY MANAGEMENT
709 EAST AUSTIN STREET
KERMIT, TEXAS 79745



July 12, 1977

Re: State "C" No. 2 Well
West Wilson Field
Lea County, New Mexico

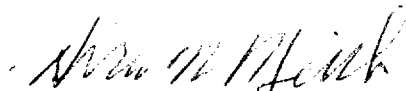
New Mexico Oil Conservation Comm.
P.O. Box 2088
Santa Fe, New Mexico

Gentlemen:

On June 28, 1977, we submitted a form C-103, requesting approval to use the subject well for salt water disposal in the Seven Rivers formation.

We would like to apologize for not mentioning in this report that the source of salt water for the disposal in the subject well is produced water from our State A & B leases.

Yours very truly,


Hiram W. Keith

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

July 15, 1977

C
O
P
Y

Hiram W. Keith
Producer and Property Management
709 East Austin Street
Kermit, Texas 79745

Re: Administrative Order SWD-185

Gentlemen:

Enclosed herewith please find Administrative Order SWD-185 for the following described well:

State C Well No. 2 located in
Unit I of Section 16, Township
21 South, Range 34 East, NMPM,
Lea County, New Mexico.

Very truly yours,

JOE D. RAMEY
Secretary-Director

JDR/CU/eq

cc: Oil Conservation Commission
Box 1980
Hobbs, New Mexico

OIL COMMISSION MONTHLY REPORT
NOVEMBER 1958
STATE OF NEW MEXICO

Page 11

Production of oil and gas in the State of New Mexico for the month of November, 1958, was 1,000,000 barrels of oil and 100,000,000 cubic feet of gas.

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