

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

August 13, 1975

**Hiram W. Heith & Dalton Haines
Box 844
Kermit, Texas 79745**

Gentlemen:

**Enclosed herewith please find the following Administrative
Order:**

**SWD-171
State C Well No. 2 located
in Unit J, Section 16,
Township 21 South, Range
34 East, NMPM, Lea County,
New Mexico.**

Very truly yours,

**JOE D. RAMEY
Secretary-Director**

JDR/CU/og

**cc: Oil Conservation Commission
Box 1980
Hobbs, New Mexico**

NEW MEXICO OIL CONSERVATION COMMISSION

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

OPERATOR Hiram W. Keith & Dalton Haines		ADDRESS Box 844, Kermit, Texas 79745	
LEASE NAME State "C"	WELL NO. 2	FIELD West Wilson	COUNTY Lea
LOCATION UNIT LETTER I ; WELL IS LOCATED 1980 FEET FROM THE S LINE AND 990 FEET FROM THE E LINE, SECTION 16 TOWNSHIP 21S RANGE 34E 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			NAME, MODEL AND DEPTH OF TUBING PACKER		

NAME OF PROPOSED INJECTION FORMATION Seven Rivers & Yates		TOP OF FORMATION 3660	BOTTOM OF FORMATION 3948
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Casing		PERFORATIONS OR OPEN HOLE? O.H.	PROPOSED INTERVAL(S) OF INJECTION 3870-3948
IS THIS A NEW WELL DRILLED FOR DISPOSAL? NO	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Production		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? 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 (BBLs.) 200	MINIMUM 180	MAXIMUM 220	OPEN OR CLOSED TYPE SYSTEM Closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Gravity	APPROX. PRESSURE (PSIG) 0
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 — Yes			WATER TO BE DISPOSED OF Yes	NATURAL WATER IN DISPOSAL ZONE Yes	ARE WATER ANALYSES ATTACHED? 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? NO	SURFACE OWNER NO	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL No other operators
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) Yes	PLAT OF AREA Yes	ELECTRICAL LOG 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.

Hiram W. Keith
(Signature)

Co-owner & Operator
(Title)

8-1-75
(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.

100

COMPANY *W. C. CLOVER* *Re: H. J. H.*

WELL *CLOVER STATE # 2*

FIELD *W. C. CLOVER*

COUNTY *...*

DATE *...*

TIME *...*

...

ILLEGIBLE

TRETOLITE DIVISION

369 Marshall Avenue / Saint Louis, Missouri 63119
(314) WO 1-3500 / TWX 910-700-1660 / Telex 44-2417

WATER ANALYSIS REPORT

COMPANY Keith - Haines ADDRESS Lea, New Mexico DATE 2/21/74

SOURCE State #1 (Discharge Pump) DATE SAMPLED _____ ANALYSIS NO. 7753

Analysis

Mg/L

*Meq/L

1. PH 6.9

2. H₂S (Qualitative) Pos.

3. Specific Gravity 1.005

4. Dissolved Solids _____

5. Suspended Solids _____

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) _____

16. _____

*Milli equivalents per liter

11,922

HCO₃ 19.8 HCO₃

Cl 117 Cl

SO₄ 54 SO₄

Ca 50 Ca

Mg 26 Mg

3,000

7.0 ppm

PROBABLE MINERAL COMPOSITION

50	Ca	←	HCO ₃	19.8
26	Mg	←	SO ₄	54
115	Na	←	Cl	117

Saturation Values Distilled Water 20°C

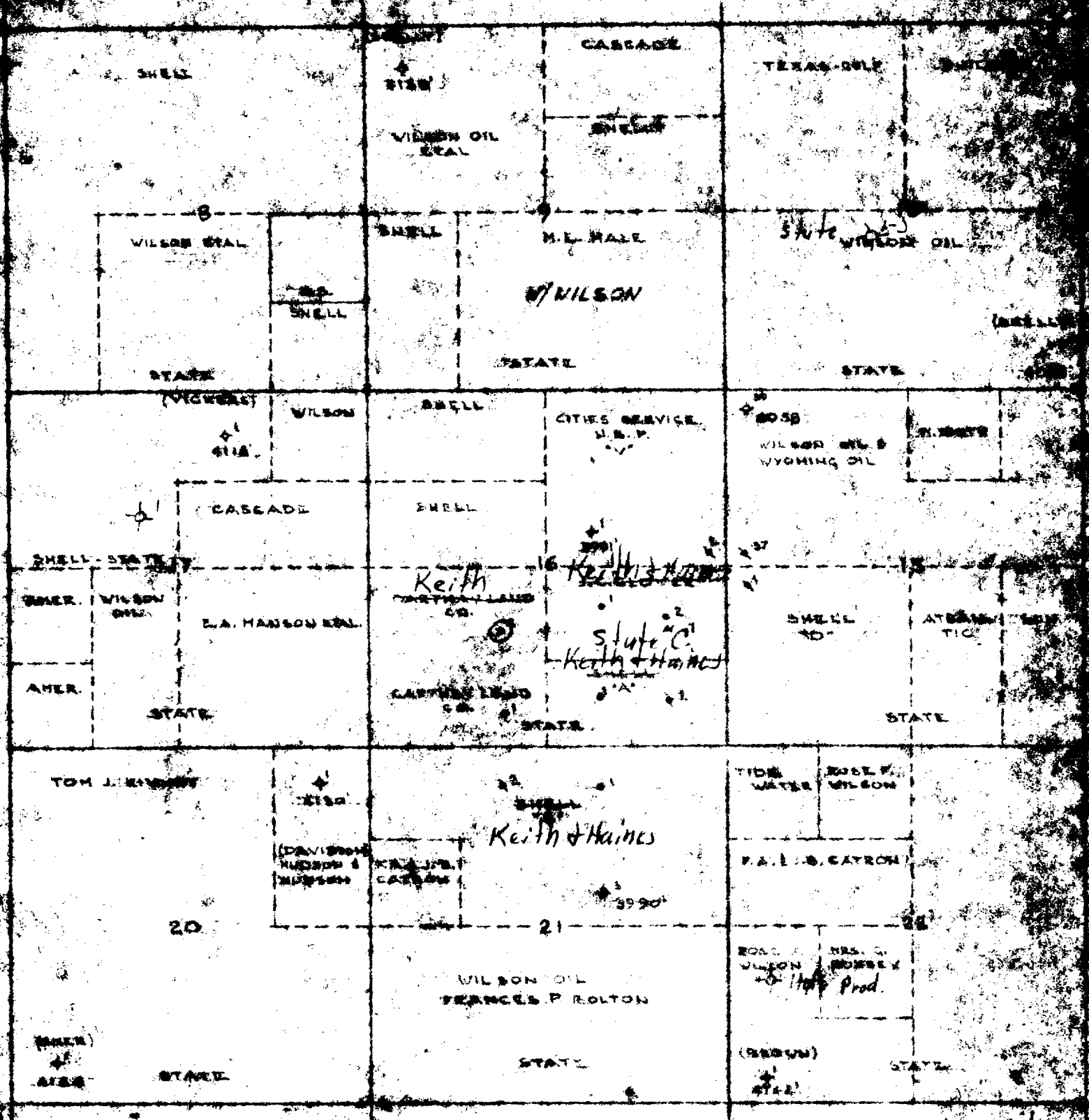
Ca CO₃ 13 Mg/L

Ca SO₄ • 2H₂O 2,090 Mg/L

Mg CO₃ 103 Mg/L

Compound	Eq. Wt.	Meq/L	Mg/L
Ca (HCO ₃) ₂	81.04	19.8	1,604
Ca SO ₄	90.07	50	2,043
Ca Cl ₂	55.49		
Mg (HCO ₃) ₂	73.12		
Mg SO ₄	60.33	24	1,450
Mg Cl ₂	63.62	2	95
Na HCO ₃	84.01		
Na ₂ SO ₄	71.04		
Na Cl	58.44	117	6,730

REMARKS 10/ (4) Meq/L (1) 117 (1) 54 (1) 19.8



CARTHAY LAND CO.
SEC. 15-215-R34-E8 SHELL-STATE LEASE

WEST WILSON FIELD
LEA COUNTY, NEW MEXICO

ILLEGIBLE

SCALE
 2000' 2000' 4000' 6000'

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

July 31, 1975

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

Re: Form C-108, State "C" Well Nos. 1 & 2, Lea County,
New Mexico

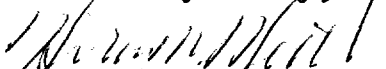
Gentlemen:

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

We are respectively 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. A copy of form C-103 for State Well No. 2 has been enclosed. The State No. 2 well is a west offset to our State "C" lease.

Yours very truly,


Hiram W. Keith

HWK:mmk

Enclosure

8-8-75: Keith returned my call. Advised him that we do not allow injection thru casing - except in case of fresh water, and after hearing. Says he will run tubing as required. CU

NO. OF COPIES RECEIVED		
DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
OPERATOR		

HOBBS OFFICE O. C. C.
NEW MEXICO OIL CONSERVATION COMMISSION

APR 30 PM 1 10

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

5a. Indicate Type of Lease
State ☒ **1650**
6. State Oil or Gas Lease No.

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> T.A. oil well	7. Unit Agreement Name
2. Name of Operator Hiram W. Keith & Dalton Haines	8. Farm or Lease Name State
3. Address of Operator Box 844 Hermit, Texas 79745	9. Well No.
4. Location of Well UNIT LETTER K 1650' FEET FROM THE South 2310' FEET FROM THE West SECTION 16 TOWNSHIP 21S RANGE 34E NMPM.	10. Field and Pool, or Name West Wilcox
11. Elevation (Show whether Oil, Gas, or Water)	12. County Lee

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM PERMANENT WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
EXPLORE <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	CONVERTED TO DISPOSAL WELL <input checked="" type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
OTHER <input type="checkbox"/>	Converted to salt water disposal well		

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 1103.

Purpose of this report is to notify you that we have converted the **subject well** to a salt water disposal well. (effective 3-1-69). A hearing before the commission for this conversion was held in Feb. 1969 and approved.

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

SIGNED **Hiram W. Keith**

Operator

DATE **4-28-69**

APPROVED BY

1969