

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

August 12, 1975

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

Re: Administrative Order SWD-170

Gentlemen:

**Enclosed herewith please find Administrative Order SWD-160
for the following described well:**

**State C Well No. 1 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. 1	FIELD West Wilson	COUNTY Lea
LOCATION UNIT LETTER J ; WELL IS LOCATED 1980 FEET FROM THE S LINE AND 1980 FEET FROM THE E LINE, SECTION 16 TOWNSHIP 21 RANGE 34E NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	13	210	75	Surface	
INTERMEDIATE					
LONG STRING	7	3850	250	2025	Calculations
TUBING			NAME, MODEL AND DEPTH OF TUBING PACKER		

NAME OF PROPOSED INJECTION FORMATION Seven Rivers & Yates		TOP OF FORMATION 3936	BOTTOM OF FORMATION 3948
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Casing		PERFORATIONS OR OPEN HOLE? O.H.	PROPOSED INTERVAL(S) OF INJECTION 3850-3948
IS THIS A NEW WELL DRILLED FOR DISPOSAL? NO	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Producing		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 Land
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 None made
		DIAGRAMMATIC SKETCH OF WELL NO

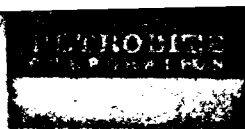
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

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.



TRETOLITE DIVISION

369 Marshall Avenue / Saint Louis, Missouri 63118
(314) WD 1-3500 / TWX 910-760-1860 / 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 7753

Analysis

Mg/L

*Meq/L

1. PH 6.9
2. H₂S (Qualitative) Pos.
3. Specific Gravity 1.005
4. Dissolved Solids 11,922
5. Suspended Solids
6. Phenolphthalein Alkalinity (CaCO₃) 990
7. Methyl Orange Alkalinity (CaCO₃)
8. Bicarbonate (HCO₃) 1,208
9. Chlorides (Cl) 4,150
10. Sulfates (SO₄) 2,579
11. Calcium (Ca) 1,000
12. Magnesium (Mg) 316
13. Total Hardness (CaCO₃) 3,800
14. Total Iron (Fe) 7.0 ppm
15. Barium (Qualitative)
16.

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

50
26
115

Ca	←	HCO ₃
Mg	←	SO ₄
Na	←	Cl

19.8
24
117

Compound	Eq. Wt.	Avg. Conc.	Mg/L
Ca (HCO ₃) ₂	31.50	19.8	1,604
Ca SO ₄	60.07	24	1,043
Ca Cl ₂	58.09	117	
Mg (HCO ₃) ₂	73.17		
Mg SO ₄	60.15	26	1,450
Mg Cl ₂	47.52	2	95
Na HCO ₃	84.00		
Na ₂ SO ₄	71.03		
Na Cl	58.45	115	6,730

Saturation Values 0.5 Hard Water 20°C

Ca CO₃ 13 Mg/L

Ca SO₄ • 2H₂O 2,090 Mg/L

Mg SO₄ 103 Mg/L

REMARKS CC/ (4) McAnally (1) H.L.S/ (1) Fife

Prepared by
TRETOLITE COMPANY

W. J. Shaffner