

NEW MEXICO OIL CONSERVATION COMMISSION

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

OPERATOR Southland Royalty Company		ADDRESS 1100 Wall Towers West Midland, TX 79701			
LEASE NAME West Corbin		WELL NO. 4	FIELD Corbin Delaware West		COUNTY Lea
LOCATION UNIT LETTER <u>H</u> ; WELL IS LOCATED <u>2310</u> FEET FROM THE <u>south</u> LINE AND <u>2310</u> FEET FROM THE <u>east</u> LINE. SECTION <u>18</u> TOWNSHIP <u>18-S</u> RANGE <u>33-E</u> NMMP.					
CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8 5/8"	340'	250 sx.	Circ.	Observation
INTERMEDIATE	-				
LONG STRING	5 1/2"	5117'	1st stage 500 sx. - unknown 2d stage 200 sx. - DV tool @ 1443', circ. to surface.		
TUBING All tubing plastic coated	2 7/8"	5020'	NAME, MODEL AND DEPTH OF TUBING PACKER Baker "AD" Tension Type Packer		
NAME OF PROPOSED INJECTION FORMATION Delaware (Cherry Canyon Sand)		TOP OF FORMATION 5032'		BOTTOM OF FORMATION 5062'	
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Perforations		PROPOSED INTERVAL(S) OF INJECTION 5032-5062'	
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Drilled as producing well but is too low structurally to produce.		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					
No other zones					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 200		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 Morrow	
ANTICIPATED DAILY INJECTION VOLUME (BBL/S.)	MINIMUM 100	MAXIMUM 200	OPEN OR CLOSED TYPE SYSTEM Closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Gravity	APPROX. PRESSURE (PSI) Vacuum
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 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) Federal Land: Surface Lessee -- Gary Caviness, Maljamar, New Mexico					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL None within one-half mile.					
cc: USGS - Hobbs, NM					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER Yes		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)		PLAT OF AREA Yes		ELECTRICAL LOG Yes	
				THE NEW MEXICO STATE ENGINEER Yes	
				DIAGRAMMATIC SKETCH OF WELL Yes	

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

C. Harvey
(Signature)

District Engineer
(Title)

4-5-78
(Date)

NOTE: Should waivers from the State Engineer, 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.

RECEIVED

APR 10 1978

OIL CONSERVATION COMM.
HOBBS, N. M.

W. G. G. #2
File

November 24, 1976

Mr. Arthur R. Brown, District Engineer
United States Geological Survey
P.O. Box 1157
Hobbs, New Mexico 88240

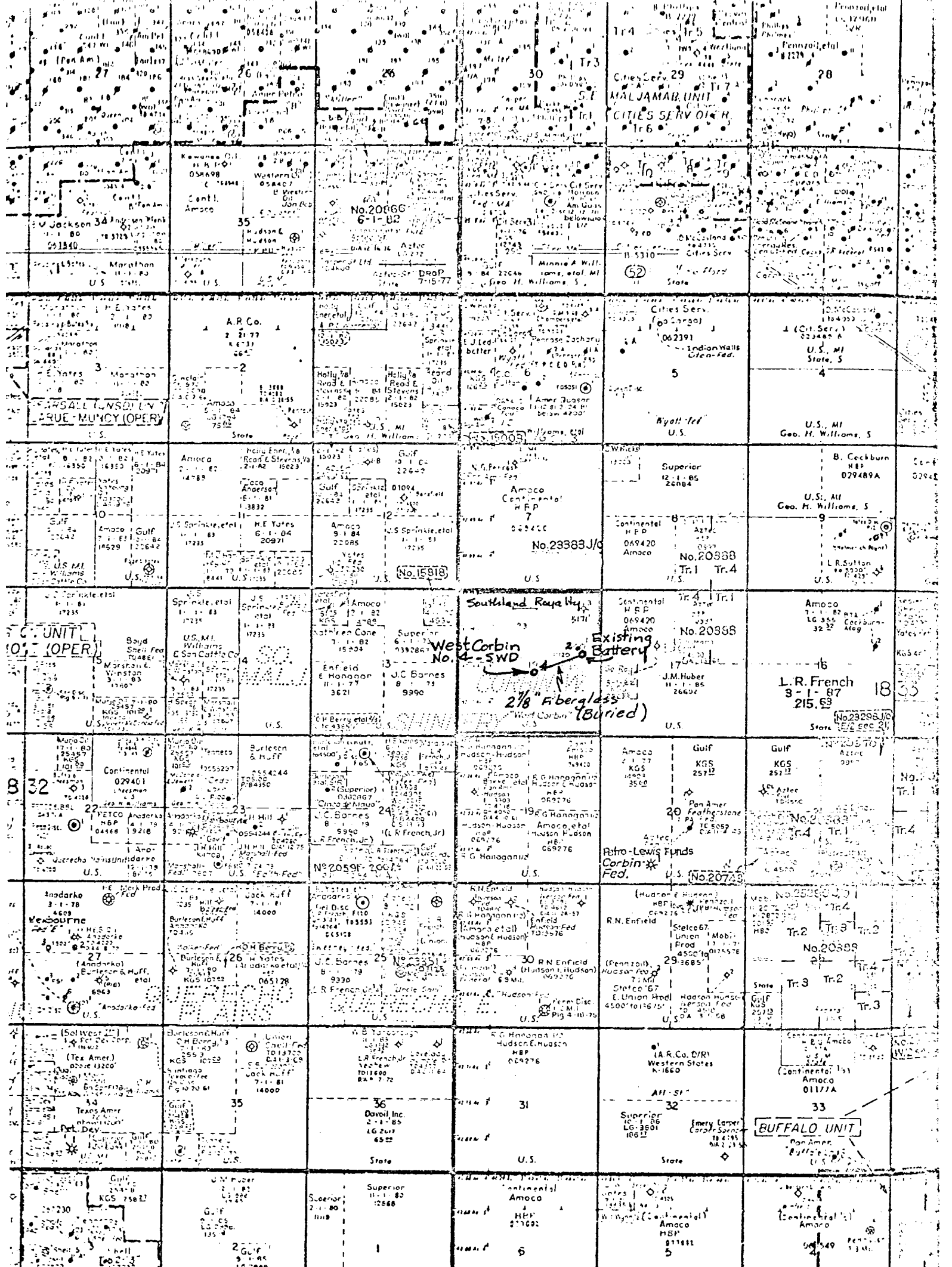
Dear Mr. Brown:

Recently our office received a letter from you requesting water disposal procedures and data on our West Corbin No. 2 lease, NM-93. At the present, water produced is being conserved for transport and disposal. Other pertinent information regarding this matter is listed as follows:

1. Location: 2030' EBL & 860' EBL, Sec 13-18s-32e, Lea County, New Mexico.
2. Formation Producing Water: Delaware Sand (Cherry Canyon).
3. Average Barrels of Water Per Day: 110 bbls.
4. Water Quality Data:
 - A. Resistivity - .042 @ 74°F
 - B. Specific Gravity - 1.182
 - C. pH - 6.1
 - D. Calcium (Ca) - 7,000
 - E. Magnesium (Mg) - 6,600
 - F. Chlorides (Cl) - 173,000
 - G. Sulfates (SO₄) - 1,600
 - H. Bicarbonates (HCO₃) - 730
 - I. Soluble Iron (Fe) - Nil
5. Contractor: Steve Carter & Son
6. SWD Disposal Location: Laguna Disposal.

Respectfully submitted,

Gary D. Wilson
District Clerk



SOUTHLAND ROYALTY COMPANY
West Corbin Salt Water Disposal
Section 13, T-13-S, R-33-E
Lea County, New Mexico
Scale: 1" = 4000' April, 1978