

SAMPLE NO. \_\_\_\_\_

THE WESTERN COMPANY  
Service Laboratory

BEFORE EXAMINER NUTTER  
OIL CONSERVATION COMMISSION  
EXHIBIT NO. 8  
CASE NO. 4/26.4/27

WATER ANALYSIS

Sample #3

Operator Clark Windmill  
Well Texas  
Field 2½ - 3 miles south  
Formation \_\_\_\_\_  
Depth \_\_\_\_\_  
County \_\_\_\_\_

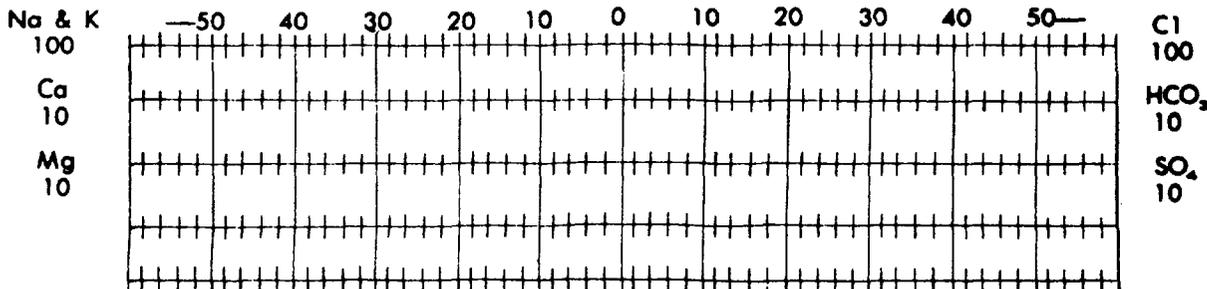
Date Sampled \_\_\_\_\_  
Date Received 5-2-69  
Submitted by Mr. Noel Sikes  
Worked by Jones  
Other Description \_\_\_\_\_

CHEMICAL DETERMINATIONS

Density 1.000 @ 77°F pH 8.1  
Iron Very Faint Trace Hydrogen Sulfide None  
Sodium and Potassium 293 ppm Bicarbonate 330 ppm  
Calcium 735 ppm Sulfate 2,160 ppm  
Magnesium 189 ppm Phosphate \_\_\_\_\_ ppm  
Chloride 520 ppm as Sodium Chloride \_\_\_\_\_ ppm

Remarks:

for Stiff type plot (in meq./l.)



Per Robert C Jones

SAMPLE NO. \_\_\_\_\_

**THE WESTERN COMPANY**  
Service Laboratory

**WATER ANALYSIS**

Sample #2

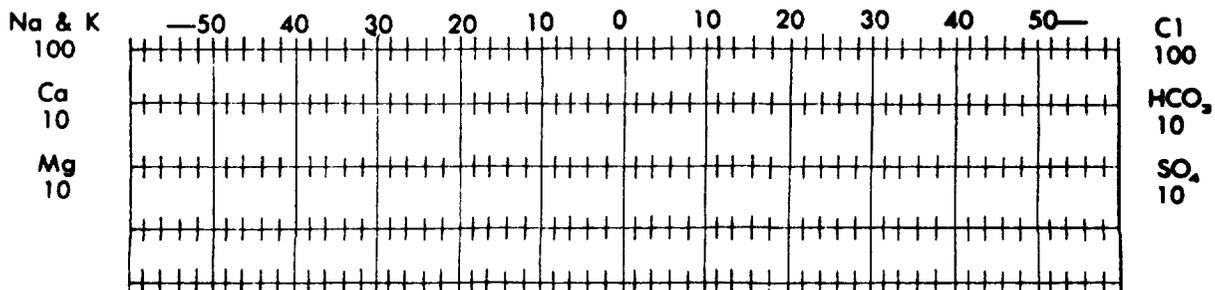
Operator	El Paso Water	Date Sampled	
Well	Wells 2 miles	Date Received	5-2-69
Field	Northeast	Submitted by	Mr. Noel Sikes
Formation		Worked by	Jones
Depth		Other Description	
County			

**CHEMICAL DETERMINATIONS**

Density	1.000 @ 75°F	pH	8.2
Iron	No Trace	Hydrogen Sulfide	None
Sodium and Potassium	408 ppm	Bicarbonate	244 ppm
Calcium	136 ppm	Sulfate	450 ppm
Magnesium	29 ppm	Phosphate	ppm
Chloride	480 ppm	as Sodium Chloride	ppm

Remarks:

for Stiff type plot (in meq./l.)



Per Robert C Jones

SAMPLE NO. \_\_\_\_\_

**THE WESTERN COMPANY**  
Service Laboratory

**WATER ANALYSIS**

Sample #1

Operator **Irrigation Well**  
Well **George Ross**  
Field **2 miles west**  
Formation \_\_\_\_\_  
Depth \_\_\_\_\_  
County \_\_\_\_\_

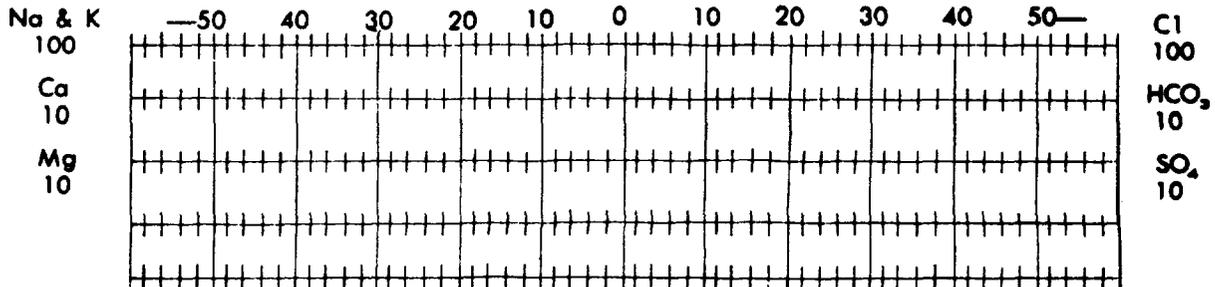
Date Sampled \_\_\_\_\_  
Date Received **5-2-69**  
Submitted by **Mr. Noel Sikes**  
Worked by **Jones**  
Other Description \_\_\_\_\_

**CHEMICAL DETERMINATIONS**

Density	<u>1.000 @ 75°F</u>	pH	<u>8.1</u>
Iron	<u>No Trace</u>	Hydrogen Sulfide	<u>None</u>
Sodium and Potassium	<u>13,610</u> ppm	Bicarbonate	<u>330</u> ppm
Calcium	<u>600</u> ppm	Sulfate	<u>1,980</u> ppm
Magnesium	<u>150</u> ppm	Phosphate	_____ ppm
Chloride	<u>1,944</u> ppm	as Sodium Chloride	_____ ppm

Remarks:

for Stiff type plot (in meq./l.)



Per Robert C Jones

SAMPLE NO. \_\_\_\_\_

**THE WESTERN COMPANY**  
Service Laboratory

**WATER ANALYSIS**

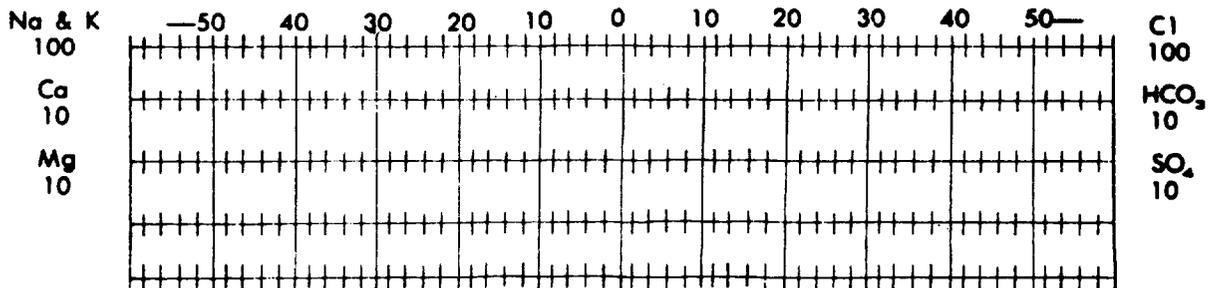
Operator	Pecos River West of Ross Farm	Date Sampled	
Well		Date Received	5-3-69
Field		Submitted by	Kermit District
Formation		Worked by	
Depth		Other Description	
County			

**CHEMICAL DETERMINATIONS**

Density	1.008 @ 74°F	pH	8.1
Iron	No Trace	Hydrogen Sulfide	None
Sodium and Potassium	4,620 ppm	Bicarbonate	232 ppm
Calcium	600 ppm	Sulfate	2,270 ppm
Magnesium	301 ppm	Phosphate	ppm
Chloride	7,420 ppm	as Sodium Chloride	ppm

Remarks:

for Stiff type plot (in meq./l.)



Per Robert C Jones

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE No. 4126  
Order No. R-3761

APPLICATION OF CURTIS HANKAMER  
FOR AN EXCEPTION TO ORDER NO.  
R-3221, AS AMENDED, EDDY COUNTY,  
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 7, 1969, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 20th day of May, 1969, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Curtis Hankamer, is the owner and operator of certain wells located in Sections 12, 13, 14, and 24, Township 26 South, Range 29 East, NMPM, Brushy Draw-Delaware Pool, Eddy County, New Mexico.

(3) That effective January 1, 1969, Order (3) of Commission Order No. R-3221, as amended, prohibits in that area encompassed by Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, the disposal, subject to minor exceptions, of water produced in conjunction with the production of oil or gas, or both, on the surface of the ground, or in any pit, pond, lake, depression, draw, streambed, or arroyo, or in any watercourse, or in any

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CASE No. 4126  
Order No. R-3761

other place or in any manner which would constitute a hazard to any fresh water supplies and said disposal has not previously been prohibited.

(4) That the aforesaid Order No. R-3221 was issued in order to afford reasonable protection against contamination of fresh water supplies designated by the State Engineer through disposal of water produced in conjunction with the production of oil or gas, or both, in unlined surface pits.

(5) That the State Engineer has designated, pursuant to Section 65-3-11 (15), N.M.S.A., 1953 Compilation, all underground water in the State of New Mexico containing 10,000 parts per million or less of dissolved solids as fresh water supplies to be afforded reasonable protection against contamination; except that said designation does not include any water for which there is no present or reasonably foreseeable beneficial use that would be impaired by contamination.

(6) That the applicant seeks an exception to the provisions of the aforesaid Order (3) to permit the disposal of salt water, produced by applicant's wells located in said Sections 12, 13, 14, and 24, in four unlined surface pits located in said Sections 12, 13, and 24.

(7) That the subject wells produce approximately 90 barrels of salt water per day.

(8) That fresh water supplies as designated by the State Engineer exist in the vicinity of the subject wells and in the vicinity of the unlined surface pits serving said wells.

(9) That the applicant has failed to establish that disposal of water produced in conjunction with the production of oil or gas, or both, by the subject wells in the subject unlined pits would not constitute a threat of contamination of fresh water supplies existing in the vicinity of said pits.

(10) That the subject application should be denied.

IT IS THEREFORE ORDERED:

(1) That the subject application is hereby denied.

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CASE No. 4126  
Order No. R-3761

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

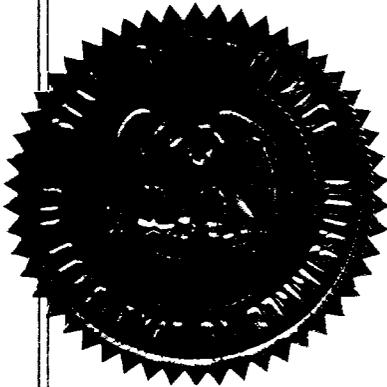
DAVID F. CARGO, Chairman



ALEX J. ARMIJO, Member



A. L. PORTER, Jr., Member & Secretary



esr/