

CASE 3664: APPLICATION OF WM. A.
AND EDWARD R. HUDSON FOR SALT
WATER DISPOSAL, EDDY COUNTY.

CASE NO.

3664

Application,
TRANSCRIPTS,
SMALL Exhibits
ETC.

WILLIAM A. & EDWARD R. HUDSON - PUCKETT "A" #16-P

Location: 2180' from North and 660' from East
lines of Section 24-17S-31E.

Total Depth: 5322'

Elevation: 3853 D.F.

8-5/8" casing cemented at 840'.

5 1/2" casing cemented at 5313' with 50 sacks.

Perforations: 5246-58, produced salt water from Paddock Zone.

Cement Plugs at: 5246-52 w/150 sacks.

4300-01 with 300 sacks.

Both squeeze jobs.

Temporarily abandoned September 1950.

*Plastic coated 16g
in P K
P K just same perf.*

*App 1 Ex 2
Q 3664-3665*

Exhibit #2.

WILLIAM A. & EDWARD R. HUDSON

WATER PRODUCTION

<u>YEAR</u>	<u>PUCKETT "A" LEASE</u>	<u>PUCKETT "B" LEASE</u>
1936 - 1960	No Record	No Record <i>24 yrs</i>
1961*	15,440	26,411
1962	12,065	14,011
1963	22,792	13,485
1964	37,938	23,064
1965	27,619	31,058
1966	45,460	42,869
1967 (8 Mos.)	<u>42,223</u>	<u>30,556</u>

203,537 bbls.

181,454 bbls.

*42223
30556
72779*

$\frac{2}{3} = 72,779$

*73
3
219
110,000*

*240
148
388*

300 B/D

* Changed location of Puckett "A" and "B" batteries and pits.

*301
110000
1015
500*

*App Ex #4
Q 3664-3665*

Exhibit #4.

RALPH L. GRAY
PETROLEUM ENGINEERING

WILLIAM A. & EDWARD R. HUDSON

PUCKETT "A" & "B" LEASES

MALJAMAR POOL - EDDY COUNTY, NEW MEXICO

RECORD OF WELLS WHICH ENCOUNTERED WATER ABOVE SALT SECTION

PUCKETT "B" #6 - Unit A - Section 25

Reported show of water at 575' to 618'.
Top of Anhydrite - 618'.

PUCKETT "B" #9 - Unit H - Section 25.

Reported show of water at 819' to 830'.

PUCKETT "B" #11 - Unit P - Section 25

Tested 2 barrels per hour from 540' to 550'.

PUCKETT "B" #13 - Unit O - Section 25

Tested 3 barrels water per hour from 538' to 550'.
Encountered prolific salt water at 882' to 892'.
Couldn't bail down.

PUCKETT "B" #18 - Unit L - Section 25

Encountered salt water at 845' to 858'.
Couldn't bail down. Top of salt at 830'.

PUCKETT "B" #20 - Unit N - Section 25

Encountered show of water at 530' to 540'.

Exhibit #6.

RALPH L. GRAY
PETROLEUM ENGINEERING



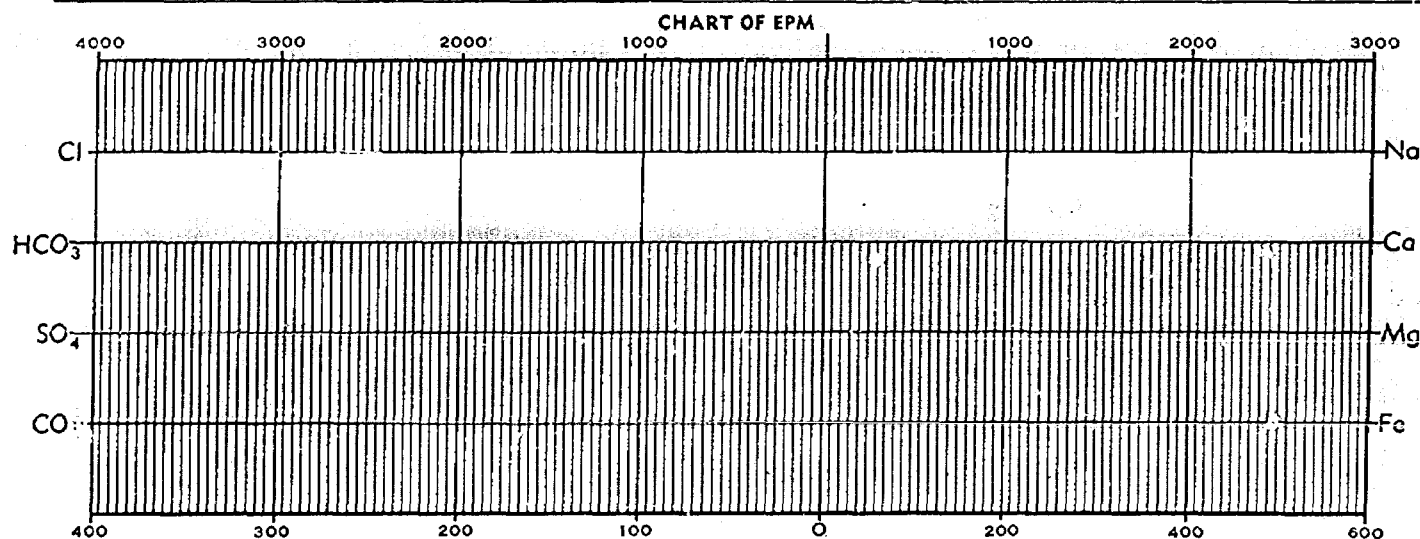
DC VELL DIVISION OF THE DOW CHEMICAL COMPANY

FIELD LABORATORY REPORT

WATER ANALYSIS

TO: Dowell
Box 1177
Artesia, New Mexico

LABORATORY LOCATION		REPORT NUMBER			
Hobbs, N. Mex.		1576			
COMPANY		WELL			
Hudson & Hudson		Puckett B #13			
POOL		LOCATION			
COUNTY		STATE			
Eddy		New Mexico			
FORMATION		DEPTH			
Water Sand		855'			
SUBMITTED BY		TESTS DESIRED			
S. M. Tipton		Analysis			
DATE SAMPLE SUBMITTED	7-6-60				
SAMPLE SOURCE	Well Head				
	PPM	EPM	PPM	EPM	
5-7.2 CALCIUM	2820	141	1-4.9 CHLORIDE	13,100	366
5-11.0 MAGNESIUM	905	74	SULFATE	4850	101
SODIUM	5,890	253	10-1 BICARBONATE	90	1
IRON			CARBONATE		
HYDROGEN SULFIDE			HYDROXIDE		
SPECIFIC GRAVITY	1.020	AT 74 °F	pH 6.8	CoCl ₂ /MgCl ₂ 2.2	% SALT SATURATION



REMARKS:

Total Solids - 27,655ppm.
Water is from interval 538'-550'

CC: Hurst
Stewart
Rosene
G. O. File

APPL EX 9
3664-3665

Exhibit "9"

James P. Glasgow 7-6-60
CHEMIST James P. Glasgow DATE

PUCKETT A 6

Bbls. Per Month

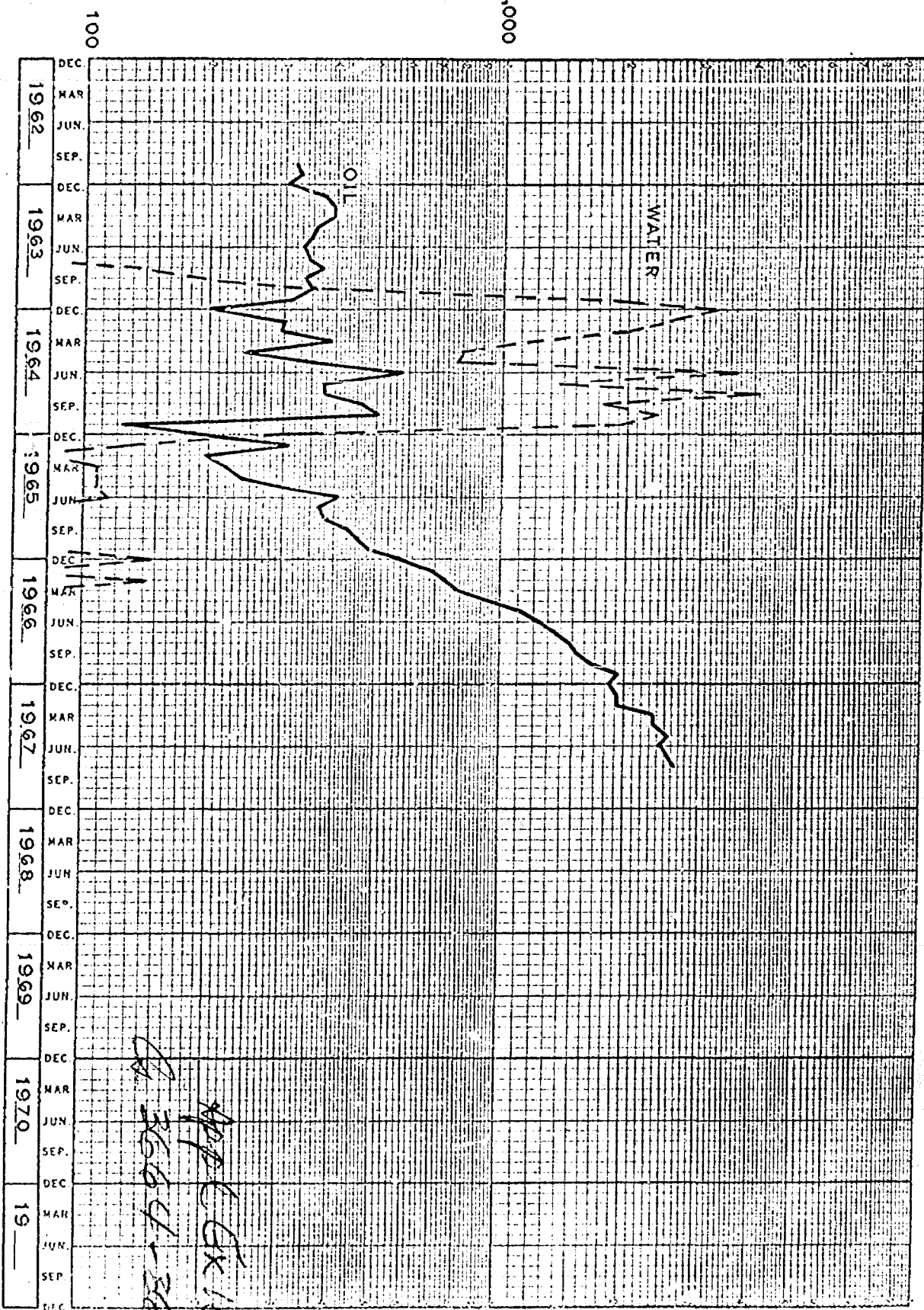


Exhibit # 10

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. 3664
Order No. R-3332-A

APPLICATION OF WILLIAM A. AND EDWARD
R. HUDSON FOR SALT WATER DISPOSAL,
EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 18, 1967, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 31st day of October, 1967, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing, 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 applicants, William A. and Edward R. Hudson, are the owners and operators of the Puckett "A" Well No. 16, located 2180 feet from the North line and 660 feet from the East line of Section 24, Township 17 South, Range 31 East, NMPM, Maljamar Pool, Eddy County, New Mexico.

(3) That the subject well is within the area of a water-flood project operated by the applicants on their Puckett "A" and Puckett "B" Leases in Sections 13, 24, and 35, Township 17 South, Range 31 East, NMPM, Maljamar Pool, Eddy County, New Mexico.

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Order No. R-3332

(4) That large amounts of water are produced in conjunction with the production of oil from the aforementioned waterflood project.

(5) That the applicants propose to utilize said well to dispose of said produced salt water into the Lower San Andres formation, with injection through perforations in the interval from approximately 4125 feet to 4905 feet.

(6) That the applicants plan to recycle the aforesaid produced water into the formation being flooded as soon as practicable plans for so doing are formulated.

(7) That it is in the interest of good conservation practices, including the conservation of fresh water, to recycle water produced or used in connection with the producing of oil or gas, or both, in water injection projects, whenever recycling is feasible and performed in a manner that will afford reasonable protection against contamination of fresh water supplies designated by the state engineer.

(8) That in order to allow the applicants sufficient time in which to formulate practicable plans for the recycling of the aforesaid produced water, and to otherwise prevent waste and protect correlative rights, the applicants should be authorized to utilize the subject well to dispose of produced water for a temporary period of one year.

(9) That the injection should be accomplished through internally plastic-coated tubing installed in a packer set at or below 4100 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge should be attached to the annulus or the annulus left open at the surface in order to determine leakage in the tubing or packer.

IT IS THEREFORE ORDERED:

(1) That the applicants, William A. and Edward R. Hudson, are hereby authorized, for a temporary period of one year from the date of this order, to utilize their Puckett "A" Well No. 16, located 2180 feet from the North line and 660 feet from the East line of Section 24, Township 17 South, Range 31 East, NMPM, Maljamar Pool, Eddy County, New Mexico, to dispose of produced salt water into the Lower San Andres formation, injection to be

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accomplished through tubing installed in a packer set at or below 4100 feet, with injection through perforations in the interval from approximately 4125 feet to 4905 feet;

PROVIDED HOWEVER, that the tubing shall be internally plastic-coated; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus or the annulus left open at the surface in order to determine leakage in the tubing or packer.

(2) That the applicants shall submit monthly reports of their disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

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

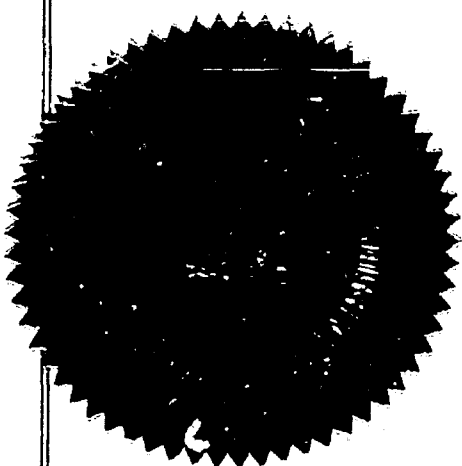
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


DAVID F. CARGO, Chairman


GUYTON B. HAYS, Member


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



esx/