

CASE 3845: Application of RICE
ENGINEERING FOR SALT WATER
DISPOSAL, LEA COUNTY, N. MEX.

Case Number

3845

Application
Transcripts.

Small Exhibits

ETC.

GOVERNOR
DAV D F. CARGO
CHAIRMAN

State of New Mexico
Oil Conservation Commission



LAND COMMISSIONER
GUYTON B. HAYS
MEMBER

P. O. BOX 2088
SANTA FE

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

September 12, 1968

Mr. Jason Kellahin
Kellahin & Fox
Attorneys at Law
Post Office Box 1769
Santa Fe, New Mexico

Re: Case No. 3844
Order No. 3845 ✓
Applicant:
Rice Engineering & Operating

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

A. L. Porter, Jr.
A. L. PORTER, Jr.
Secretary-Director

ALP/ir

Carbon copy of order also sent to:

Hobbs OCC X

Artesia OCC

Aztec OCC

Other R-3500 to Mr. Hugh F. Robinson

State Engineer Office

RICE Engineering & Operating, Inc.

Post Office Box 1142

Telephone (505) 393-9174

HOBBS, NEW MEXICO 88240

August 26, 1968

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Dan Nutter

Re: Case 3844 and 3845

Gentlemen:

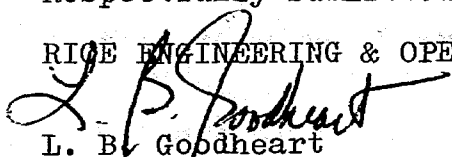
At hearing of Case 3844 and 3845, conducted August 21, 1968, it was requested that Rice Engineering furnish sub-sea elevations for producing formations shown on our Exhibit "D" presented at the hearing. Attached are the requested sub-sea elevations for Hobbs East San Andres SWD (Case 3844) and Justis SWD (Case 3845). For wells where elevations were not available, the producing interval is shown.

During the examination for Case 3844, the question of how the 4-inch liner was installed or hung in the proposed SWD well was asked by the examiner. Additional information obtained from Humble Oil & Refining Company well files shows that subject liner was set from 4,320 feet to 6,480 feet. The liner was hung @ 4,320 feet with a TLW Type "L" hanger and TLW Type "L" packer with hold downs. The liner was tested to 4200 psi for 30 minutes with no drop in pressure. As stated at the hearing, we would test the liner to whatever pressure the Commission requires.

We hope that this additional information satisfactorily answers your questions concerning the subject cases and that it will expedite the approval of our SWD application. If we have inadvertently omitted anything, please advise.

Respectfully submitted,

RICE ENGINEERING & OPERATING, INC.


L. B. Goodheart
Division Manager

LBG/jp

Attachments

EXHIBIT "D"

PRODUCTIVE FORMATIONS OF WELLS WITHIN A
TWO-MILE RADIUS OF PROPOSED JUSTIS SWD WELL H-2

<u>COMPANY</u>	<u>LEASE</u>	<u>WELL NO.</u>	<u>FORMATION</u>
Amerada	Wimberly	9	Blinebry, Tubb-Drinkard -2207 to -2790 to -2373' -2871'
"	"	6	Tubb-Drinkard, Fusselman -2770 to -2840' -3840 to -3914'
"	"	16	Seven Rivers-Queen, Blinebry +52 to -153' -2291 to -2375'
"	Cagle "C"	3	Devonian PB to 3600 T/A
"	"	1	Yates, Seven Rivers, Queen +314 to +54'
A P Co.	Dobbs	1	Seven Rivers, Queen +337 to +17'
Atlantic	Carlson Fed.	1	Blinebry, Tubb-Drinkard, -2232 to -2674 to -2855'
"	"	2	-2340' Fusselman squeezed Blinebry, Tubb-Drinkard -2303 to -2835 to -2861'
"	Gregory	1	-2381' Blinebry -2170 to -2320'
El Paso	Carlson "A" Fed.	2	Seven Rivers, Queen -33 to -171'
"	Carlson "B" Fed.	1	Glorieta -1563 to -1769'
"	Bates	1	Yates, Seven Rivers +295 to -157'
Getty	Riggs "A"	1	Seven Rivers, Queen 3210-3346' El. not available
"	"	2	Seven Rivers, Queen 3170-3368' El. not available
"	"	3	Blinebry -2112 to -2361'
"	"	1	Seven Rivers, Queen -262 to -294'
"	Riggs "B"	2	Seven Rivers, Queen -238 to -282'
"	"	3	Seven Rivers, Queen -244 to -287'
"	"	4	Seven Rivers, Queen -248 to -295'
"	"	5	Seven Rivers, Queen T/A Never received allowable-no Perfs.
"	"	6	Blinebry -2062 to -2238'
"	"	7	Blinebry -2110 to -2476'
"	"	8	Blinebry, (Tubb-Drinkard P/A -2081 to 2-21-66) -2372'
Gulf	Arnott Ramsay	3	Glorieta -1696 to -1770'
"	" "	1	Seven Rivers, Queen -7 to -258'
"	" "	4	Blinebry, Tubb-Drinkard -2327 to -2824 to -2852' -2461'
"	" "	5	Blinebry -2163 to -2409'
"	" "	7	Blinebry -1994 to -2427'
"	" "	8	Fusselman -3715 to -3805'
"	" "	9	Blinebry, Fusselman -2125 to -3814 to -2389' -3843'

<u>COMPANY</u>	<u>LEASE</u>	<u>WELL</u> <u>NO.</u>	<u>FORMATION</u>
Gulf Contd.	Arnott Ramsay	10	Blinebry, Fusselman -2271 to -3841 to -3885' -2408'
"	" "	11	Blinebry, Tubb-Drinkard -2167 to -2751 to -2420' -2817'
"	" "	12	Blinebry -2199 to -2406'
"	Vinson Ramsay	1	Blinebry -2303 to -2388'
"	" "	6	Blinebry, (Tubb-Drinkard P/B -2333 to 4-14-65) -2467'
"	" "	7	Blinebry, Tubb-Drinkard -2186 to -2749 to -2341' -2829'
"	" "	8	Blinebry, Tubb-Drinkard -2125 to -2693 to -2411' -2827'
"	" "	9	Blinebry, Tubb-Drinkard -2220 to -2765 to -2366' -2792'
"	" "	10	Blinebry, (Tubb-Drinkard P/B -2205 to 4-14-65) -2283'
"	" "	11	Blinebry, (Tubb-Drinkard P/B -2109 to 9-3-64) -2345'
"	" "	12	Blinebry, (Tubb-Drinkard P/B -2239 to 7-27-65) -2285'
"	Arnott Ramsay	2	Seven Rivers, Queen T/A -206 to -302'
"	Vinson Ramsay	2	Seven Rivers, Queen T/A -225 to -272'
"	" "	3	Seven Rivers, Queen T/A -248 to -282'
"	" "	4	Seven Rivers, Queen T/A -270 to -284'
"	" "	5	Seven Rivers, Queen T/A -235 to -314'
Lowe	M. D. Self	3	Seven Rivers, Queen -171 to -265'
"	"	4	Seven Rivers, Queen -201 to -296'
"	"	5	Blinebry -2089 to -2300'
"	"	6	Blinebry -2148 to -2347'
Pan American	State	1	Seven Rivers, Queen -236 to -250'
"	"	2	Seven Rivers, Queen -261 to -360'
"	"	4	Seven Rivers, Queen -302 to -316'
"	State A. J.	5	Blinebry, (Tubb-Drinkard Abn. -2251 to 6-24-66 -2735 to -2473' -2797'
"	State	6	Blinebry, Fusselman -2103 to -3869 to -2261' -3885'
Reserve Oil	Dobbs	1	Yates, Seven Rivers +456 to +217'
"	"	2	Yates, Seven Rivers +270 to -288'

COMPANY	LEASE	WELL NO.	FORMATION
Solar Oil	Alton	4	Seven Rivers, Queen -152 to -303'
"	Dobbs	1	Seven Rivers, Queen T/A +77 to -219'
"	"	2	Seven Rivers, Queen T/A -169 to -288'
"	"	3	Seven Rivers, Queen -179 to -310'
Tenneco	Federal #35	1	Blinebry, Drinkard -2037 to -2804 to -2067' -2823'
"	Ginsberg	5	Seven Rivers, Queen +2 to -108'
"	"	6	Seven Rivers, Queen -209 to -292'
"	"	7	Seven Rivers, Queen -244 to -270'
"	"	8	Seven Rivers-Queen, Blinebry M3! -186 to -261' -2094 to -2282'
"	"	9	Blinebry, Fusselman -2104 to -3885 to -2478' -3897' D31
"	"	10	Blinebry -2204 to -2459' L31
"	"	11	Blinebry, Fusselman -2217 to -3890 to -2400' -3924' E31
"	"	13	Seven Rivers-Queen, Blinebry K3! -242 to -276' -2278 to -2400'
"	Leonard	1	Seven Rivers -396 to -412'
"	"	2	Seven Rivers -397 to -437'
"	"	7	Devonian T/A -6397 to -6517'
Texas Pacific	L. L. Gregory	1	Seven Rivers, Queen -33 to -267'
"	Gregory "C"	2	Seven Rivers, Queen -165 to -289'
"	"	3	Seven Rivers, Queen -218 to -268'
Union Texas	Carlson "A"	1	Tubb-Drinkard, Fusselman -2778 to -3826 to -2836' -3880'
"	"	2	Fusselman, Montoya -3764 to -3859 to -3774' -3861'
"	"	3	Blinebry, Tubb-Drinkard N19 -2112 to -2645 to -2533' -2840'
"	"	4	Blinebry, Tubb-Drinkard X19 -2354 to -2734 to -2450' -2758'
"	"	5	Blinebry, Tubb-Drinkard -1976 to -2731 to -2026' -2772'
"	"	6	Blinebry, Montoya -2102 to -3864 to -2528' -3866'
"	Carlson "B"	2	Blinebry, Tubb-Drinkard H26 -2330 to -2708 to -2376' -2746'
"	Henry	3	Seven Rivers, Queen -5 to -47'
"	Gregory "A"	1	Blinebry -2240 to -2339' H35

COMPANY	LEASE	WELL NO.	FORMATION
Westates	Carlson	1	Glorieta -1610 to -1750'
"	Carlson B-25	1	Seven Rivers, Queen -155 to -166'
"	Carlson "B"	2	Blinebry, Tubb-Drinkard -1950 to -2668 to -2004' -2770'
"	"	3	Tubb-Drinkard, Fusselman -2842 to -3576 to -2884' -3742'
"	"	4	Tubb-Drinkard, Fusselman -2856 to -3713 to -2910' -3837'
"	"	5	Blinebry, Tubb-Drinkard -2362 to -2642 to -2535' -2787'
"	"	6	Fusselman -3753 to -3807'
"	Carlson B-26	2	Seven Rivers, Queen -43 to -242'
"	"	3	Seven Rivers, Queen -121 to -169'
"	"	4	Seven Rivers, Queen -14 to -4'
"	"	5	Blinebry, Tubb-Drinkard -2000 to -2826 to -2044' -2876'
"	"	6	Blinebry, Tubb-Drinkard -2006 to -2760 to -2034' -2770'
"	"	7	Paddock, Blinebry -1998 to -2066 to -2016' -2118'
"	Carlson B-27	2	Seven Rivers, Queen 3210 to 3307' El. not available

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. 3845
Order No. R-3499

APPLICATION OF RICE ENGINEERING
& OPERATING, INC., FOR SALT WATER
DISPOSAL, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on August 21, 1968, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 12th day of September, 1968, 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, Rice Engineering & Operating, Inc., is the owner and operator of the Justis SWD Well No. H-2 (formerly the Resler & Sheldon-Bette Sue Well No. 2), located in Unit H of Section 2, Township 26 South, Range 37 East, NMPM, Langlie-Mattix Pool, Lea County, New Mexico.

(3) That the applicant proposes to utilize said well to dispose of produced salt water into the Grayburg, San Andres, and Glorieta formations, with injection into the open-hole interval from approximately 3540 feet to 5616 feet.

(4) That the injection should be accomplished through 3 1/2-inch plastic-lined tubing; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge should

-2-

CASE No. 3845
Order No. R-3499

be attached to the annulus or the annulus left open at the surface in order to determine leakage in the tubing or casing.

(5) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Rice Engineering & Operating, Inc., is hereby authorized to utilize its Justis SWD Well No. H-2 (formerly the Resler & Sheldon-Bette Sue Well No. 2), located in Unit H of Section 2, Township 26 South, Range 37 East, NMPM, Langlie-Mattix Pool, Lea County, New Mexico, to dispose of produced salt water into the Grayburg, San Andres, and Glorieta formations, injection to be accomplished through 3 1/2-inch tubing into the open-hole interval from approximately 3540 feet to 5616 feet;

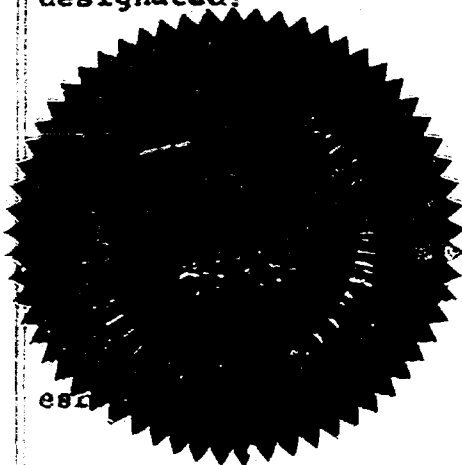
PROVIDED HOWEVER, that prior to said utilization, the applicant shall cause additional cementing of the 5 1/2-inch casing set at 3540 feet sufficient to ensure the annular space is cemented from said casing shoe back into the 8 5/8-inch casing set at 916 feet;

PROVIDED FURTHER, that the tubing shall be plastic-lined; 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 casing.

(2) That the applicant shall submit monthly reports of its 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

GUSTON B. HAYES, Member

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

- CASE 3844: Application of Rice Engineering & Operating, Inc., for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Queen, San Andres and Glorieta formations in the perforated intervals at approximately 3808-3834, 3962-3992, 5248-5261, and 5980-6054 feet in its Hobbs East San Andres SWD Well No. F-30 (formerly the Humble Oil & Refining Company S. E. Cain Well No. 1) located in Unit F of Section 30, Township 18 South, Range 39 East, Hobbs East San Andres Pool, Lea County, New Mexico.
- CASE 3845: Application of Rice Engineering & Operating, Inc., for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Grayburg, San Andres, and Glorieta formations in the open-hole interval from 3540 feet to 5616 feet in its Justis SWD Well No. H-2 (formerly the Resler & Sheldon-Bette Sue Well No. 2) located in Unit H of Section 2, Township 26 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico.
- CASE 3846: Application of Bco, Inc., and Harry L. Bigbee for downhole commingling, San Juan County, New Mexico. Applicants, in the above-styled cause, seek authority to commingle production from the Gallup, Greenhorn, Graneros, and Dakota formations in the wellbores of the Harry L. Bigbee Nancy Wells Nos. 2 and 4 located, respectively, in Units N and F of Section 12, Township 24 North, Range 8 West, Escrito-Gallup Oil Pool, San Juan County, New Mexico. Applicants further seek an administrative procedure whereby said commingling may be authorized for additional wells to be drilled in the area comprising all of Sections 12, 13, and the E/2 of Section 14; said township and range.
- CASE 3847: Application of K. K. Amini for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Bough "C" zone of the Pennsylvanian formation underlying the NE/4 of Section 5, Township 10 South, Range 34 East, Lea County, New Mexico. Said acreage to be dedicated to a well to be drilled in the SW/4 NE/4 of said Section 5, adjacent to the Vada-Pennsylvanian Pool.
- CASE 3848: Application of Continental Oil Company for a non-standard gas proration unit and an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the approval of a 296-acre non-standard gas proration unit comprising all of Lots 3, 4, 5, 6, 11, 12, 13, and 14, Section 2, Township 21 South, Range 25 East, Springs-Upper Pennsylvanian Gas Pool, Eddy County, New Mexico, said unit to be dedicated to its Levers Federal Well No. 1 located at an unorthodox location 1594 feet from the North line and 660 feet from the West line of said Section 2.

Page 3845
RICE Engineering & Operating, Inc.

Post Office Box 1142

Telephone (505) 393-9174

HOBBS, NEW MEXICO 88240

July 30, 1968

93 JUL 31 AM 8 34

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico 87501

Re: Rule 701, Injection of
Fluids into Reservoirs
(Salt Water Disposal)

Gentlemen:

Rice Engineering & Operating, Inc., of Hobbs, New Mexico, hereby applies for a hearing to be held before the New Mexico Oil Conservation Commission for the purpose of securing a permit under Rule 701 to recompleate the plugged and abandoned Resler & Sheldon-Bette Sue No. 2 well, located in the SE/4 NE/4 of Section 2, Township 26 South, Range 37 East, Lea County, New Mexico, as a salt water disposal well. The proposed disposal well will be known as the Rice Engineering & Operating, Inc. Justis SWD Well H-2.

Rice Engineering & Operating, Inc. further deposes and states the following:

- A. That said well is located 1980 feet from the North line and 660 feet from the East line of Section 2, Township 26 South, Range 37 East, N.M.P.M., Lea County, New Mexico. (See Exhibit "A")
- B. That said well was drilled, plugged and abandoned as a dry hole on June 24, 1965, by Resler & Sheldon, being non-productive in any zone.
- C. That said well has 8-5/8" O.D. casing set at 916 feet and 7-7/8" open hole to total depth of 6,865 feet. (See Exhibit B)
- D. That said well will be completed as a disposal well in the Grayburg-San Andres-Glorieta by (1) clean-out to the top of a cement plug at 5,616 feet; (2) setting a string of 5 1/2" O.D. casing at 3,540 feet; (3) disposing of produced brine in the open hole interval from 3,540 to 5,616 feet.

DOCKET MAILED


Date 8-8-68

- E. That the salt water to be injected is produced in the Fowler, North Justis and Justis Pool areas from the Langley Maddox-Seven Rivers-Queen, Justis-Glorieta, Justis-Paddock, Justis-Blinebry, Justis-Tubb-Drinkard, Fowler-Blinebry, Fowler-Devonian, Justis-Fusselman, North Justis-Fusselman, Justis-Montoya, North Justis-Montoya, North Justis-McKee, Fowler-Ellenburger and Justis-Ellenburger Pools.
- F. That the volume of salt water to be disposed shall be approximately 5,000 barrels per day.

Therefore, Rice Engineering & Operating, Inc. requests that the Secretary of the New Mexico Oil Conservation Commission set a date for this application to be heard, and after said hearing, to grant this permit to dispose of salt water in the Resler & Sheldon-Bette Sue No. 2 well. It is further requested that this hearing be set for August 21, 1968.

Respectfully submitted,

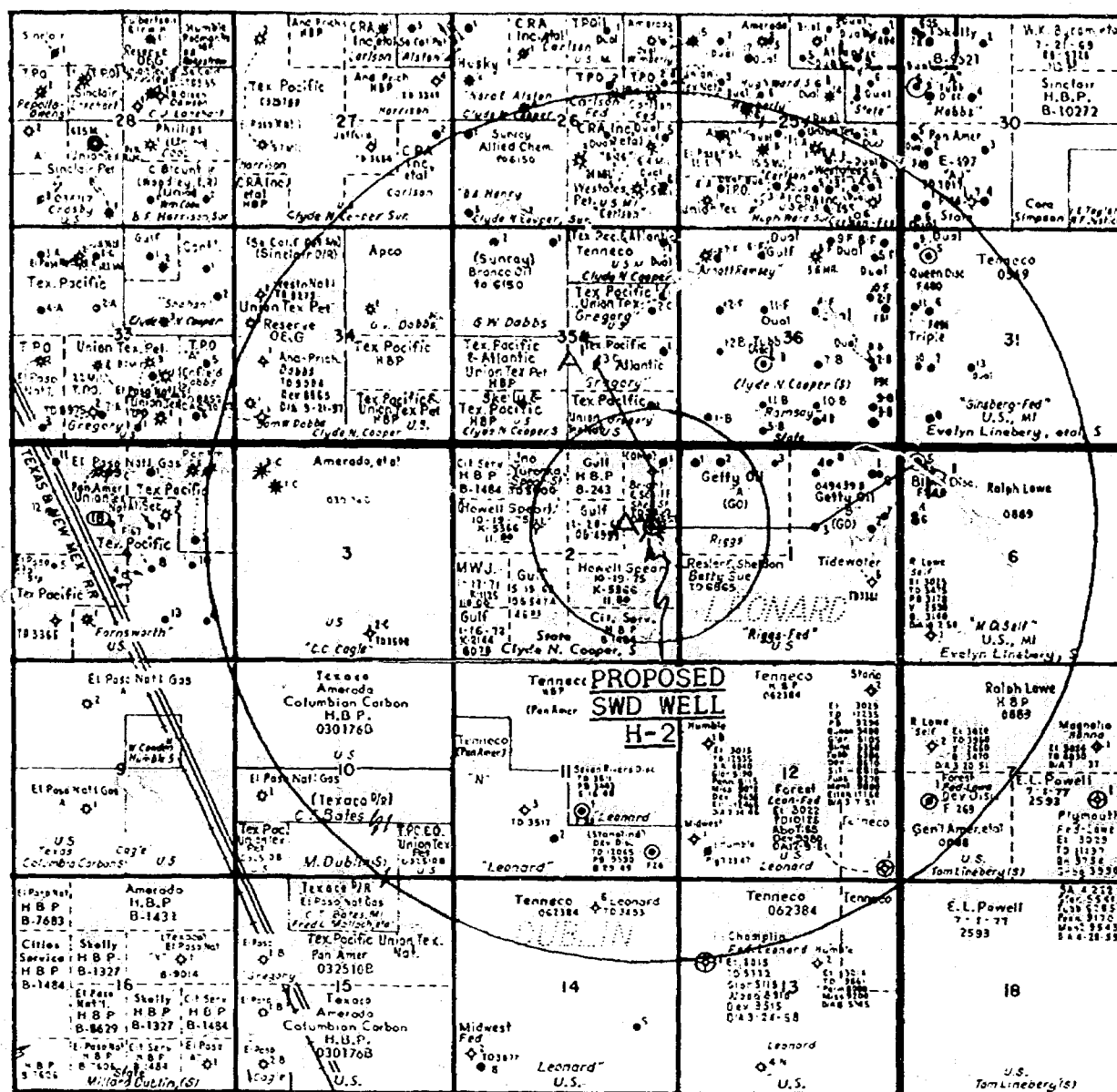
RICE ENGINEERING & OPERATING, INC.

By: 
L. B. Goodheart
Division Manager

LBG/jp

Attachments: Exhibits "A", "B", "C" & "D"
Form C-108

R 38 E

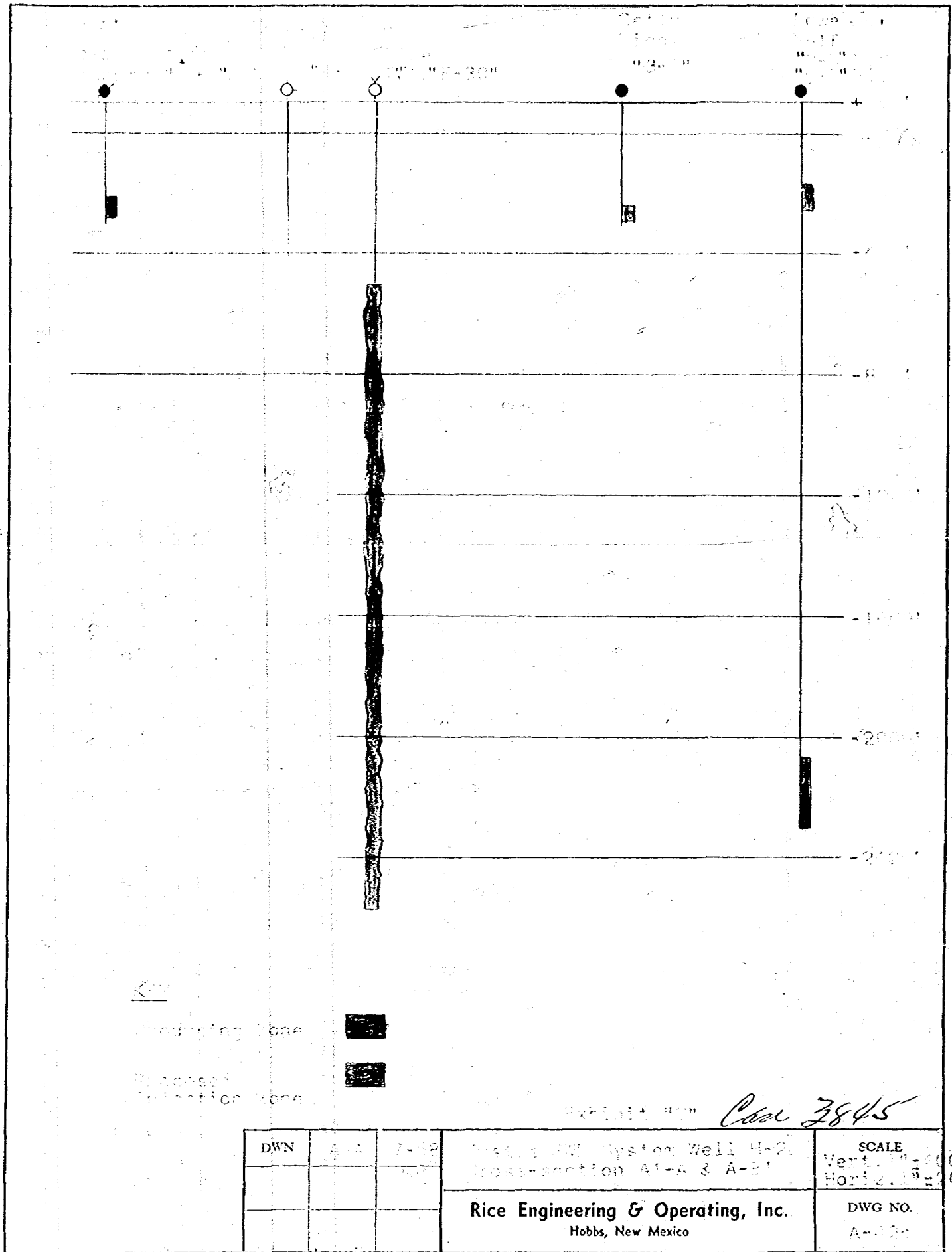


LEA COUNTY, NEW MEXICO

EXHIBIT "A"

Case 3845

DWN	AMM	7-68	LOCATION PLAT JUSTIS SWD WELL H-2	SCALE 1" = 4000'
			Rice Engineering & Operating, Inc. Hobbs, New Mexico	DWG NO. A-420



K & E CO. — WICHITA — HERCULENE 191543

PRODUCTIVE FORMATIONS OF WELLS WITHIN A
TWO-MILE RADIUS OF PROPOSED JUSTIS SWD WELL H-2

<u>COMPANY</u>	<u>LEASE</u>	<u>WELL NO.</u>	<u>FORMATION</u>
Amerada	Wimberly	9	Blinebry, Tubb-Drinkard
"	"	6	Tubb-Drinkard, Fusselman
"	"	16	Seven Rivers, Queen, Blinebry
"	Cagle "C"	3	Devonian T/A
"	"	1	Yates, Seven Rivers, Queen
A P Co.	Dobbs	1	Seven Rivers, Queen
Atlantic	Carlson Fed.	1	Blinebry, Tubb-Drinkard, Fusselman
"	"	2	Blinebry, Tubb-Drinkard
"	Gregory	1	Blinebry
El Paso	Carlson "A" Fed.	2	Seven Rivers, Queen
"	Carlson "B" Fed.	1	Glorieta
"	Bates	1	Yates, Seven Rivers
Getty	Riggs "A"	1	Seven Rivers, Queen
"	"	2	Seven Rivers, Queen
"	"	3	Blinebry
"	"	1	Seven Rivers, Queen
"	Riggs "B"	2	Seven Rivers, Queen
"	"	3	Seven Rivers, Queen
"	"	4	Seven Rivers, Queen
"	"	5	Seven Rivers, Queen T/A
"	"	6	Blinebry
"	"	7	Blinebry
"	"	8	Blinebry, Tubb-Drinkard
Gulf	Arnott Ramsay	3	Glorieta
"	" "	1	Seven Rivers, Queen
"	" "	4	Blinebry, Tubb-Drinkard
"	" "	5	Blinebry
"	" "	7	Blinebry
"	" "	8	Fusselman
"	" "	9	Blinebry, Fusselman
"	" "	10	Blinebry, Fusselman
"	" "	11	Blinebry, Tubb-Drinkard
"	" "	12	Blinebry
"	Vinson Ramsay	1	Blinebry
"	" "	6	Blinebry, Tubb-Drinkard
"	" "	7	Blinebry, Tubb-Drinkard
"	" "	8	Blinebry, Tubb-Drinkard

COMPANY	LEASE	WELL NO.	FORMATION
Gulf Contd.	Vinson Ramsay	9	Blinebry, Tubb-Drinkard
"	" "	10	Blinebry, Tubb-Drinkard
"	" "	11	Blinebry, Tubb-Drinkard
"	" "	12	Blinebry, Tubb-Drinkard
"	Arnott Ramsay	2	Seven Rivers, Queen T/A
"	Vinson Ramsay	2	Seven Rivers, Queen T/A
"	" "	3	Seven Rivers, Queen T/A
"	" "	4	Seven Rivers, Queen T/A
"	" "	5	Seven Rivers, Queen T/A
Lowe	M. D. Self	3	Seven Rivers, Queen
"	"	4	Seven Rivers, Queen
"	"	5	Blineory
"	"	6	Blinebry
Pan American	State	1	Seven Rivers, Queen
"	"	2	Seven Rivers, Queen
"	"	4	Seven Rivers, Queen
"	State A. J.	5	Blinebry, Tubb-Drinkard
"	State	6	Blinebry, Fusselman
Reserve Oil	Dobbs	1	Yates, Seven Rivers
"	"	2	Yates, Seven Rivers
Solar Oil	Alton	4	Seven Rivers, Queen
"	Dobbs	1	Seven Rivers, Queen
"	"	2	Seven Rivers, Queen
"	"	3	Seven Rivers, Queen
Tenneco	Federal #35	1	Blinebry, Drinkard
"	Ginsberg	5	Seven Rivers, Queen
"	"	6	Seven Rivers, Queen
"	"	7	Seven Rivers, Queen
"	"	8	Seven Rivers, Queen, Blinebry
"	"	9	Seven Rivers, Queen, Fusselman
"	"	10	Blinebry
"	"	11	Blinebry, Fusselman
"	"	13	Seven Rivers, Queen, Blinebry
"	Leonard	1	Seven Rivers
"	"	2	Seven Rivers
"	"	7	Devonian T/A
Texas Pacific	L. L. Gregory	1	Seven Rivers, Queen
"	Gregory "C"	2	Seven Rivers, Queen
"	" "	3	Seven Rivers, Queen
Union Texas	Carlson "A"	1	Tubb-Drinkard, Fusselman
"	" "	2	Fusselman, Montoya

<u>COMPANY</u>	<u>LEASE</u>	<u>WELL NO.</u>	<u>FORMATION</u>
Union Texas	Carlson "A"	3	Blinebry, Tubb-Drinkard
Contd.	" "	4	Blinebry, Tubb-Drinkard
"	" "	5	Blinebry, Tubb-Drinkard
"	" "	6	Blinebry, Montoya
"	Carlson "B"	2	Blinebry, Tubb-Drinkard
"	Henry	3	Seven Rivers, Queen
"	Gregory "A"	1	Blinebry
Westates	Carlson	1	Glorieta
"	Carlson B-25	1	Seven Rivers, Queen
"	Carlson "B"	2	Blinebry, Tubb-Drinkard
"	" "	3	Tubb-Drinkard, Fusselman
"	" "	4	Tubb-Drinkard, Fusselman
"	" "	5	Blinebry, Tubb-Drinkard
"	" "	6	Fusselman
"	Carlson B-26	2	Seven Rivers, Queen
"	" "	3	Seven Rivers, Queen
"	" "	4	Seven Rivers, Queen
"	" "	5	Blinebry, Tubb-Drinkard
"	" "	6	Blinebry, Tubb-Drinkard
"	" "	7	Paddock, Blinebry
"	Carlson B-27	2	Seven Rivers, Queen

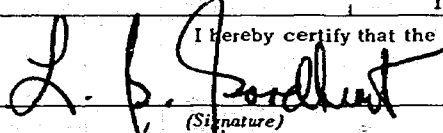
Case 3845

NEW MEXICO OIL CONSERVATION COMMISSION

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

OPERATOR Rice Engineering & Operating, Inc.		ADDRESS Box 1142, Hobbs, New Mexico 88240			
LEASE NAME Justis SWD	WELL NO. H-2	FIELD Justis	COUNTY Lea		
LOCATION UNIT LETTER <u>H</u> ; WELL IS LOCATED <u>1980</u> FEET FROM THE <u>North</u> LINE AND <u>660</u> FEET FROM THE <u>South</u> LINE, SECTION <u>2</u> TOWNSHIP <u>26-South</u> RANGE <u>37-East</u> NMPM.					
CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING					
Left in hole	8 5/8"	916'	350	Circulate	
INTERMEDIATE					
None					
LONG STRING					
Proposed	5 1/2"	3,540'	285	tie back to 8 5/8"	calculated - 130%
TUBING			NAME, MODEL AND DEPTH OF TUBING PACKER		
Proposed	3 1/2"	3,540'	None - Load annular space with oil		
NAME OF PROPOSED INJECTION FORMATION		TOP OF FORMATION		BOTTOM OF FORMATION	
Grayburg - San Andres - Glorieta		3,540'		5,615'	
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?		PERFORATIONS OR OPEN HOLES?		PROPOSED INTERVAL(S) OF INJECTION	
Tubing		Open hole		3,540' to 5,615'	
IS THIS A NEW WELL DRILLED FOR DISPOSAL?		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED?		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE?	
No		Drilled as an oil well		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		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA	
300		Lower Queen		Glorieta	
ANTICIPATED DAILY INJECTION VOLUME (BBLS.)	MINIMUM	MAXIMUM	OPEN OR CLOSED TYPE SYSTEM	IS INJECTION TO BE BY GRAVITY OR PRESSURE?	APPROX. PRESSURE (PSI)
	2,500	7,200	Closed	Gravity	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 -			WATER TO BE DISPOSED OF	NATURAL WATER IN DISPOSAL ZONE	ARE WATER ANALYSES ATTACHED?
			Yes	Yes	No
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)					
Clyde N. Cooper, Box 72, Jal, New Mexico					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL					
Texas Pacific Oil Company - Box 1069, Hobbs, New Mexico					
Getty Oil Company - Box 249, Hobbs, New Mexico					
Gulf Oil Company - Box 670, Hobbs, New Mexico					
Cities Service Oil Company - Box 69, Hobbs, New Mexico					
Howell Spear - 101 North Turner, Hobbs, New Mexico					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL	
		Yes		Yes	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)		PLAT OF AREA		ELECTRICAL LOG	
		Yes		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.


(Signature)Division Manager
(Title)July 30, 1968
(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.

dearnley-meier reporting service, inc.

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

1120 SHERAS BLDG. • P. O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO



BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
August 21, 1968

IN THE MATTER OF:

Application of Rice Engineering &
Operating, Inc., for salt water
disposal, Lea County, New Mexico.

Case No. 3845

BEFORE: D. S. NUTTER,
Examiner

TRANSCRIPT OF HEARING

MR. NUTTER: Call Case 3845.

MR. HATCH: Application of Rice Engineering & Operating, Inc., for salt water disposal, Lea County, New Mexico.

MR. KELLAHIN: If the Examiner please, may the record show the same witness and that the witness has been sworn.

(Applicant's Exhibits A through E marked for identification.)

* * * * *

L. B. GOODHEART, called as a witness, having been previously duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q You are the same Mr. Goodheart that testified in Case 3844?

A Yes.

Q What is proposed by Rice Engineering in Case 3845?

A This is a proposal to recomplete the plugged and abandoned Resler and Sheldon-Bette Sue Well No. 2 located in the southeast quarter of the northeast quarter of Section 2, Township 26 South, Range 37 East, Lea County, New Mexico as a salt water disposal well for the Justis Salt Water Disposal

System.

Q Now, the Justis, this will be for the Justis Field, which includes production from numerous production, does it not?

A Yes, sir.

Q What zones would be included in that?

A We will be receiving produced water from the Blinberry Formation, the Devonian, the Ellenburger, Fusselman, Glorieta, McKee and the Montoya, Paddock, Queen and the Tubb.

Q Now, referring to what has been marked as Exhibit A, would you identify that exhibit?

A Exhibit A is a location plat showing the designated or proposed Justis salt water disposal well, designated as H-2 on the plat. It also shows a cross section which refers to a later exhibit.

Q The circle, is that a radius of two miles from the subject well?

A The large circle, yes.

Q Referring to what is marked as Exhibit B, would you identify that exhibit?

A Exhibit B shows the proposed completion for the Justis SWD well H-2. It shows eight and five-eighths casing set at 916 feet with 350 sacks of cement circulated. It

also shows five and a half, proposed or we propose to show, or to set, pardon me, five and a half-inch O. D. casing at 3540 feet with 285 sacks.

Q Will that be sufficient cement to cement the back end of the surface string?

A We calculated, or we hope we can do this, so calculated to take back into the surface casing.

Q And then you will utilize a plastic-lined tubing?

A Yes, we will utilize three and a half-inch plastic-lined tubing.

Q Will you use a packer in this completion?

A No, sir, a treated oil blanket will be installed in the annulus with a positive pressure gauge at the surface.

Q It would appear from the exhibit that this well was completed open hole, is that correct?

A Yes, sir, our proposed injection interval will be in the open hole interval.

Q What is that?

A 3540 to an existing cement plug at 5616.

Q Now, is that zone within one of the producing horizons in this area?

A Yes, sir, this encompasses the Grayburg San Andres Glorieta interval. The Glorieta is productive in this two-mile radius from a gas producing zone.

Q Will the injection of water in this Glorieta zone interfere with the production in the area?

A We don't feel that injection over this interval will hamper the producing gas zones in these other wells.

Q Now, referring to what has been marked as Exhibit C, would you identify that exhibit?

A Exhibit C shows wells on a cross section, A-A prime and A-B shown on Exhibit A, showing producing intervals in these wells. It also shows our proposed disposal well in the interval, open hole interval that will be open.

Q Now, it would appear that the Lowe B Self well is producing from the interval you propose to inject in, is that correct?

A This is a Blinebry producing well. It's up structure.

Q So actually, its structural position is higher or lower?

A It is higher.

Q It is higher?

A Yes.

Q So your injection of water in that zone will have no effect on the Lowe B. Sheldon well?

A No, sir, not in our opinion.

Q Referring to what has been marked as Exhibit D, will you identify that exhibit?

A Exhibit D is a list of productive formations of wells within a two-mile radius of the proposed salt water disposal well, H-2.

Q Of those wells listed which would be producing from the particular formation in which you propose to inject, would it be just those shown as producing from the Glorieta?

A Yes, sir, there are three of these wells which are Glorieta gas wells. The El Paso Carlson B Federal No. 1, the Gulf Arnot Ramsey 3, and the West States Carlson No. 1.

Q At the same time you supply the information requested by Mr. Nutter in the other case, would you give him the sub-sea interval from which those wells are producing?

A Yes, sir.

MR. NUTTER: Where is that last well on this exhibit, Mr. Goodheart?

THE WITNESS: The West States well.

MR. NUTTER: Yes, I see you have three pages. I hadn't found the third page yet. You will give us the sub-sea completion interval?

THE WITNESS: Yes.

Q (By Mr. Kellahin) Now, referring to what has been

marked as Exhibit E. Would you identify that exhibit?

A This is C 108 S.

Q Were exhibits A through E, inclusive, prepared by you or under your supervision?

A Yes, sir.

MR. KELLAHIN: At this time I offer in evidence Exhibits A through E, inclusive.

MR. NUTTER: Applicant's A through E will be admitted in evidence.

(Whereupon, Applicant's Exhibits A through E, inclusive offered and admitted in evidence.)

Q (By Mr. Kellahin) Approximately what volumes of water will you dispose of in this well?

A Approximately 6,000 barrels a day.

Q Do you anticipate the well will take the water on gravity?

A We anticipate that it will, yes, sir.

MR. KELLAHIN: That's all I have on direct examination.

MR. NUTTER: Are there any questions of this witness? He may be excused.

(Witness excused.)

MR. NUTTER: Do you have anything further, Mr. Kellahin?

MR. KELLAHIN: That's all I have.

MR. NUTTER: Does anyone have anything they wish to offer in Case 3845? We will take the case under advisement.

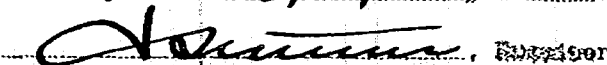
STATE OF NEW MEXICO)
) ss
COUNTY OF BERNALILLO)

I, ADA DEARNLEY, Court Reporter in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Proceedings before the New Mexico Oil Conservation Commission was reported by me, and that the same is a true and correct record to the best of my knowledge, skill and ability.

WITNESS my hand this 30th day of August, 1968.


ADA DEARNLEY

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 3845, heard by me on 8/21/68, 19


Examiner
New Mexico Oil Conservation Commission

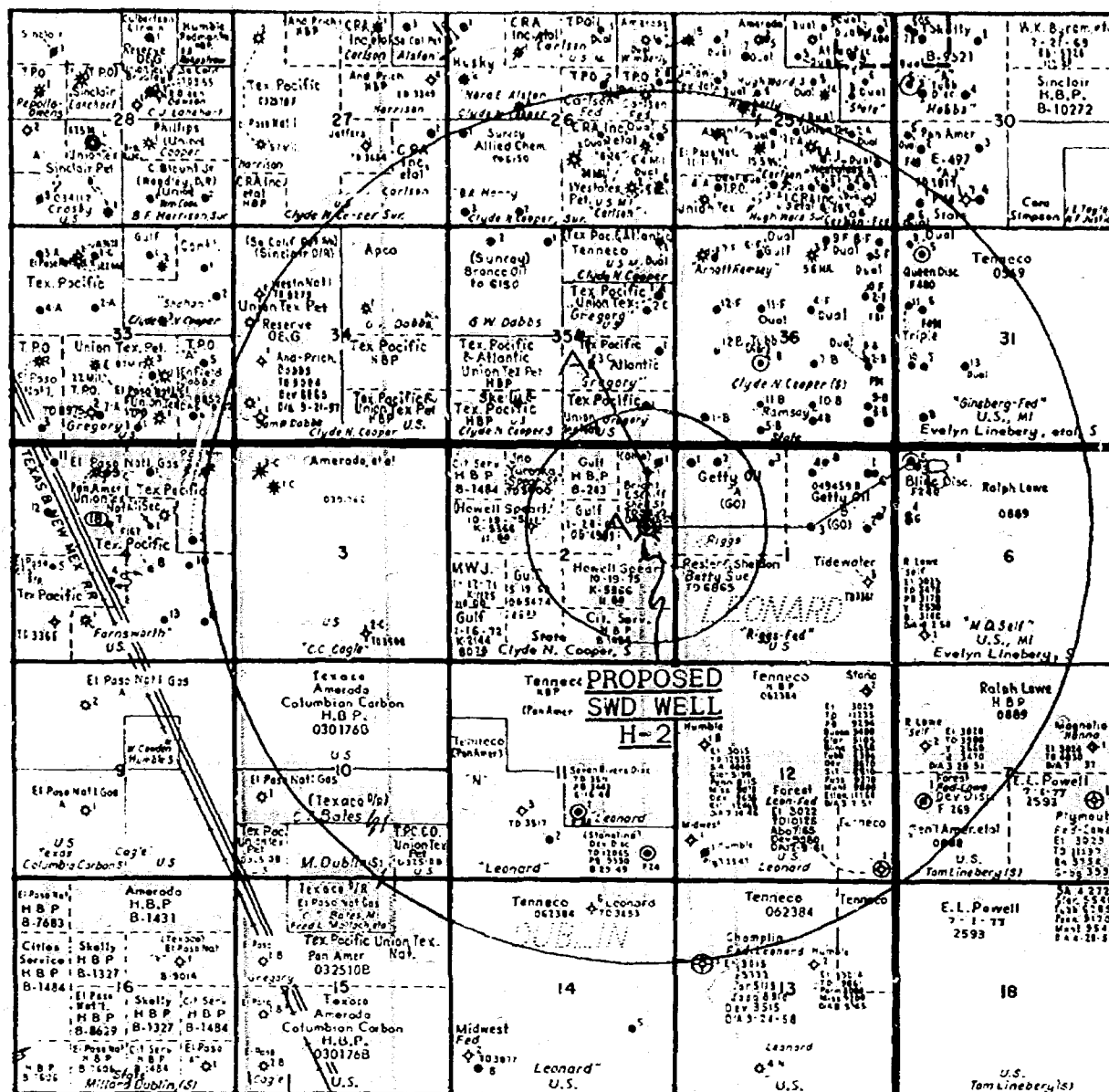
I N D E X

WITNESS	PAGE
<u>L. B. GOODHEART</u>	
Direct Examination by Mr. Kellahin	2

<u>EXHIBITS</u>	<u>MARKED</u>	<u>OFFERED AND ADMITTED</u>
Applicant's A through E	2	7

R 37 E

R 38 E



LEA COUNTY, NEW MEXICO



BEFORE EXAMINED MUTTER
 CH. app NO. A
 CASE NO. 3645

EXHIBIT "A"

DWN	AMM	7-68	LOCATION PLAT JUSTIS SWD WELL H-2	SCALE 1" = 4000'
			Rice Engineering & Operating, Inc. Hobbs, New Mexico	DWG NO. A-420

TREATED OIL IN
CASING - TUBING ANNULUS

3 1/2" O.D. RUF DUOLINED
TUBING SET AT 3540'

SURFACE

CEMENT

8 5/8" O.D. 24# J-55
CASING SET AT 916'
w/280 SACKS CEMENT

CEMENT

5 1/2" O.D. 14# J-55
CASING SET AT 3540'
w/280 SACKS CEMENT

UNIT 5616'
CEMENT PLUG

BEFORE EXAMINED NUTTER

App. _____ EXHIBIT NO. B
CASE NO. 3845

EXHIBIT "B"

DWN	AMM	7-68	PROPOSED COMPLETION JUSTIS SWD WELL H-2	SCALE NONE
			Rice Engineering & Operating, Inc. Hobbs, New Mexico	DWG NO. A-42

			<p>BEFORE EXAMINED NUTTER</p> <p>CONCEALMENT</p> <p>App. EXHIBIT NO. <u>C</u></p> <p>CASE NO. <u>3845</u></p>	
<p>APPROVED FOR EXAMINATION</p> <p>DATE</p>			<p>SCALE</p>	
<p>DWN</p>			<p>Rice Engineering & Operating, Inc.</p> <p>Hobbs, New Mexico</p>	
<p>DWG NO.</p>			<p>DATE</p>	

REPORT OF INVESTIGATION OF VIOLENCE
 MADE BY THE BUREAU OF INVESTIGATION, DEPARTMENT OF JUSTICE, MAY 1-2

NAME	ADDRESS	DATE	LOCATION
Winnorly	Winnorly	9	Blaine, Tubb-Drinkard
"	"	6	Tubb-Drinkard, Fusselman
"	"	10	Seven Rivers, Queen, Blaine
"	1414 1/2 St.	3	Devonian T/A
"	"	1	Yates, Seven Rivers, Queen
A. J. Co.	Debs	1	Seven Rivers, Queen
Atlantic	Carlson Fed.	1	Blaine, Tubb-Drinkard, Fusselman
"	"	2	Blaine, Tubb-Drinkard
"	Gregory	1	Blaine
El Paso	Carlson 14 Fed.	2	Seven Rivers, Queen
"	Carlson 15 Fed.	1	Clarieta
"	Bates	1	Yates, Seven Rivers
Gottly	Riggs "A"	1	Seven Rivers, Queen
"	"	2	Seven Rivers, Queen
"	"	3	Blaine
"	"	1	Seven Rivers, Queen
"	Riggs "B"	2	Seven Rivers, Queen
"	"	3	Seven Rivers, Queen
"	"	4	Seven Rivers, Queen
"	"	5	Seven Rivers, Queen T/A
"	"	6	Blaine
"	"	7	Blaine
"	"	8	Blaine, Tubb-Drinkard
Gulf	Arnett Ramsey	3	Clarieta
"	"	1	Seven Rivers, Queen
"	"	4	Blaine, Tubb-Drinkard
"	"	5	Blaine
"	"	7	Blaine
"	"	8	Fusselman
"	"	9	Blaine, Fusselman
"	"	10	Blaine, Fusselman
"	"	11	Blaine, Tubb-Drinkard
"	"	12	Blaine
"	Vinson Ramsey	1	Blaine
"	"	6	Blaine, Tubb-Drinkard
"	"	7	Blaine, Tubb-Drinkard
"	"	8	Blaine, Tubb-Drinkard

BUREAU EXAMINER NUTTER	
Appr.	FILE NO. <u>D</u>
CASE NO.	<u>3845</u>

			Blinebry, Tubb-Drinkard
		10	Blinebry, Tubb-Drinkard
		11	Blinebry, Tubb-Drinkard
		12	Blinebry, Tubb-Drinkard
	Wagon Pass	2	Seven Rivers, Queen T/A
	Wagon Pass	2	Seven Rivers, Queen T/A
	"	3	Seven Rivers, Queen T/A
	"	4	Seven Rivers, Queen T/A
	"	5	Seven Rivers, Queen T/A
	M. B. Galt	3	Seven Rivers, Queen
	"	4	Seven Rivers, Queen
	"	5	Blinebry
	"	6	Blinebry
San American	State	1	Seven Rivers, Queen
"	"	2	Seven Rivers, Queen
"	"	3	Seven Rivers, Queen
"	State A. J.	4	Blinebry, Tubb-Drinkard
"	State	5	Blinebry, Fusselman
Seberve Oil	Bohbs	1	Yates, Seven Rivers
"	"	2	Yates, Seven Rivers
Solar Oil	Alton	1	Seven Rivers, Queen
"	Bohbs	2	Seven Rivers, Queen
"	"	3	Seven Rivers, Queen
"	"	4	Seven Rivers, Queen
Tenneco	Federal #35	1	Blinebry, Drinkard
"	Ginsberg	2	Seven Rivers, Queen
"	"	3	Seven Rivers, Queen
"	"	4	Seven Rivers, Queen
"	"	5	Seven Rivers, Queen, Blinebry
"	"	6	Seven Rivers, Queen, Fusselman
"	"	7	Fusselman
"	"	8	Blinebry
"	"	9	Blinebry, Fusselman
"	"	10	Seven Rivers, Queen, Blinebry
"	"	11	Seven Rivers
"	Leonard	1	Seven Rivers
"	"	2	Seven Rivers
"	"	3	Devonian T/A
Texas Pacific	L. L. Gregory	1	Seven Rivers, Queen
"	Gregory "C"	2	Seven Rivers, Queen
"	"	3	Seven Rivers, Queen
Union Texas	Carlson "A"	1	Tubb-Drinkard, Fusselman
"	"	2	Fusselman, Montoya

BEFORE EXAMINER NUTTER	
DATE	MAILED
FILE NO.	NO.
C. F. C.	

1. *Pharmaceutical industry*—*United States*.—*History*.
 2. *Pharmaceutical industry*.—*United States*.—*History*.
 3. *Pharmaceutical industry*.—*United States*.—*History*.

Carlson
Carlson H-25
Carlson "E"
 " "
 " "
 " "
 " "
Carlson H-26
 " "
 " "
 " "
 " "
 " "
Carlson H-27

Blindery, Hugh-Brinkard
Blindery, Hugh-Brinkard
Blindery, Hugh-Brinkard
Blindery, Hugh-Brinkard
Seven Rivers, Queen
Blindery

Gloriota
Seven Rivers, Queen
Blimbry, Tubb-Drinkard
Tubb-Drinkard, Fusselman
Tubb-Drinkard, Fusselman
Blimbry, Tubb-Drinkard
Fusselman
Seven Rivers, Queen
Seven Rivers, Queen
Seven Rivers, Queen
Blimbry, Tubb-Drinkard
Blimbry, Tubb-Drinkard
Faddock, Blimbry
Seven Rivers, Queen