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

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ase Number Application Transcripts. Small Exhibits

GOVERNOR DAV D F. CARGO CHAIRMAN

State of New Mexico Gil Conservation Commission



LAND COMMISSIONER GUYTON B. HAYS MEMBER

P. O. BOX 2008 SANTA FE September 12, 1968

Mr. Jason Kellahin Kellahin & Fox

Re: C

Case No.	3844 3845	Ē.	
Order No.	R-3499	and	R-3500
Applicant	5		

STATE GEOLOGIST

A, L, PORTER, JR. SECRETARY - DIRECTOR

Rice Engineering & Operating

Dear Sir:

Attorneys at Law Post Office Box 1769 Santa Fe, New Mexico

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

Very truly yours,

Tailes A. L. PORTER, Jr.

A. L. PORTER, JI. Secretary-Director

ALP/ir

Carbon copy of drder 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

Case 3844 and 3845

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

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 subsea 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.

Re:

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. BL GO bdheart Division Manager

LBG/jp

Attachments

EXHIBIT "D"

1

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

18 4

		WELL		
COMPANY	LEASE	NO.	FORMATION	
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			+2207 to +2790 to	
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ti 🗇 🖘	Cagle "C"	3	Devonian PB to 3600 T/A	
t ti	ii ii	1	Yates, Seven Rivers, Que	
			+314 to +54'	
A P Co.	Dobbs	1	Seven Rivers, Queen	
			+337 to +17'	
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		- 1	⇒2340' Fusselman squeeze	d /
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			-2303 to -2835 to -2861	
n	Gregory	1	-2381' Blinebry	35
-	42.004.1	_	-2170 to -2320'	
		 A second s		
El Paso	Carlson "A" Fed.	2	Seven Rivers, Queen -33 to -171'	
63	Carlson "B" Fed.	1	Glorieta -1563 to -1769'	K 25 AN
ที่	Bates	1	Yates, Seven Rivers	
		•	+295 to -157'	
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1	11	3	3170-3368' El. not avail Blinebry -2112 to -2361'	
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			∞262 to ∞294!	
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TL ST	17	5	-248 to -295' Seven Rivers, Queen T/A	Never
-			received allowable no Pe	rfs.
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11	21	7	Blinebry +2110 to +2476'	
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		·	→2327 to →2824 to →2852	
-	18 17	F	-2461'	ASS
97 26	ft 17	5	Blinebry -2163 to -2409' Blinebry -1994 to -2427'	0-34
11	H 11	8	Fusselman $\rightarrow 3715$ to -3805	4
11	ri u	9	Blinebry, Fusselman	8-34
		-	-2125 to -3814 to -2389' -3843'	

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		a	-2420' -2817'
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tt .	Vinson Ramsay	1 6	Blinebry -2303 to-2388'
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		· -	-2366' -2792'
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			+2261' +3885'
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Reserve Oil	Dobbs	1	Yates, Seven Rivers +456 to +217'
II .	11	2	Yates, Seven Rivers
			+270 to ~288'

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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 <u>12th</u> 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 Bast, 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 $3 \frac{1}{2}$ 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 & Chaiden-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;

<u>PROVIDED HOWEVER</u>, 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 Pe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO ervation commission CARGO, Chairman DAVID Jr., Member & Secretary ORTER,

Docket No. 25-68

Examiner Hearing - August 21, 1968

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

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 Weld 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:

CASE 3845:

-3-

CASE 3844:

Application of Bco, Inc., and Harry L. Bigbee for downhole commingling, San Juan County, New Mexico. Applicants, in the abovestyled 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 P 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 296acre 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.

Chek-3845

RICE Engineering & Operating, Snc.

Post Office Box 1142 Telephone (505) 393/9174

HOBBS. NEW MEXICO 88240 July 30, 1968

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

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

Gentlemen:

N X N

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 recomplete 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 5¹/₂" 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 MARED

Date 8-8-68

Page 2 - NMOCC - July 30, 1968

E. That the salt water to be injected is produced in the Fowler, North Justis and Justis Pool areas from the Langle 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 6,000 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.

17

By: Goodheart L. B. Division Manager

LBG/jp

Attachments: E

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

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

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81	Carlson B-26	2	Seven Rivers, Queen
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		1	Paddock, Blinebry
£1	Carlson B-27	2	Seven Rivers, Queen

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Form C-108 Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION

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

OPERATOR	·····		ADDRESS			
	0 Ononit:					
Rice Engineering	a uperati	NG, INC.	BOX 1.42	2, Hobbs, No	<u>ew</u> (* 5.3	100 88240
Justis SWD		H-2	Justis	<u> </u>		Lea
UNIT LETTER	<u> </u>	ELL IS LOCATED 1	980FEET FROM	THE North	LINE AND	660 FEET FROM THE
South LINE, SECTION	2 10		h RANGE 37-East AND TUBING DATA			
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEM	ENT	TOP DETERMINED BY
SURFACE CASING		<u> </u>				
Left in hole	8 5/8"	9161	350	Circula	ate	×
None						
LONG STRING				tie bad	·k	calculated -
Proposed	5½"	3,540'	285 NAME, MODEL AND DEPTH	to 8 5/		130%
Proposed	3½"	3,540'	None - Load			ith oil
Proposed NAME OF PROPOSED INJECTION FORMA	TION		TOP OF FORMATIO		BOTTOM	DF FORMATION
Grayburg - San	Andres -	Glorieta	3.5401		5.6	15'
	GOR ANNULUS?	PERFORATION	1. A.	a a 👔 🏄 🗛 👔		
Tubing	ite anewee le	Open h	Ole 3	.540' to 5.	6151	
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NO LIST ALL SUCH PERFORATED INTERVAL	S AND SACKS OF CE	led as an o	OIL WELL		1	No
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	300		r Queen		ieta	S AREA
ANTICIPATEO DAILY MINIMUM	I MAXIMUM	OPEN OR CLOS	ED TYPE SYSTEM 15	INJECTION TO BE BY GR	AVITY OF	APPROX. PRESSURE (PSI)
(BBLS.) 2,500	7,200	Clo	sed	Gravity	r	
(BBLS.) 1 2,500 ANSWER YES OR NO WHETHER THE FOL DERALIZED TO SUCH A DEGREE AS TO B STOCK, IRRIGATION, OR OTHER GENERAL	LOWING WATERS AR E UNFIT FOR DOMES	E MIN- WATER	TO BE DISPOSED OF NA	TURAL WATER IN DISPO	ARE WAT	R ANALYSES ATTACHED?
NAME AND ADDRESS OF SURFACE OWNE			Yes	Yes		No
Clyde N. Cooper,	DUA IZ	DNE-HALF (1) MILE OF	THIS INJECTION WELL			
Texas Pacific Oil				Mexico		
			,			· · · · · · · · · · · · · · · · · · ·
Getty Oil Company	- Box 24	9, Hobbs, N	New Mexico	4		
Gulf Oil Company	- Box 670	, Hobbs, Ne	ew Mexico			
Cities Service Oi.	l Company	- Box 69,	Hobbs, New	Mexico		······
Howall Shaan - 10	I MARLE T	moon Ital	NI-			
Howell Spear - 10. HAVE COPIES OF THIS APPLICATION BE SENT TO EACH OF THE FOLLOWING?	L NOTTH IL		EACH OPERATOR W	CO	THE NEW	MEXICO STATE ENGINEER
SENT TO EACH OF THE FOLLOWING?	Yè		I OF THIS WELL	Yes	! .	No
ARE THE FOLLOWING ITEMS ATTACHED THIS APPLICATION (SEE RULE 701-B)			ELECTRICAL LOG	103		ATIC SKETCH OF WELL
	Ye	S		Yes	1 1	les
I hereby ce			true and complete to	1 A 4		
A. D. Pord	head	Divisio	on Manager		July	30, 1968
(Sirnature)			(Title)			(Date)
NOTE OF IL	6				·	

OTE: Should waiver I 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.



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.)

 $\mathbf{2}$

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

DIRECT EXAMINATION

BY MR. KELLAHIN:

 \mathbb{N}

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.

not?

Q Now, the Justis, this will be for the Justis Field, which includes production from numerous production, does it

A Yes, sir.

Q What zones would be included in that?

A We will be receiving produced water from the

Blineberry Formation, the Devoniah, the Ellenburger, Fusselman, Glorieta, McKee and the Montoya, Paddock, Queen and the Tubb. 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 5 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 halfwinch 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 provising horizons in this area?

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

4

• Will the injection of water in this Gloricta zone interfere with the production in the area?

5.

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

O 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.

A 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 Gloriota gas wells. The El Paso Carlson B Federal No. 1, the Gulf Arnot Ramsey 3, and the West States Carlson No. 1.

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?

Yes, sir.

Α

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 rs the sub-sea completion interval?

THE WITNESS: Yes.

(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 aryone 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.

Jela ~

I do hereby cortify that the foregoing is a complete robard of the proceedings in the Examiner bearing of Gree No. 3845, heard by no on 8/21/68, 19

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INDEX

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WITNESS

L. B. GOODHEART

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Direct Examination by Mr. Kellahin

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BEFORE EXAMINER NUTTER

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