

Ri CASE 5953: RICE ENGINEERING & OPER.
INC., FOR AMENDMENT OF ORDER NO.
R-5384, LEA COUNTY, NEW MEXICO

Inc.

Cont to June 22

Case Number
5953

Application
Transcripts.

Small Exhibits

ETC.

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
8 June 1977

EXAMINER HEARING

IN THE MATTER OF:

Application of Rice Engineering &
Operating, Inc., for amendment of
Order No. R-5384, Lea County, New
Mexico.

CASE
5953

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil
Conservation Commission:

Lynn Teschendorf, Esq.
Legal Counsel for the Commission
State Land Office Building
Santa Fe, New Mexico

sid morrish reporting service

General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

1 MR. NUTTER: We'll call the next case, Number
2 5953.

3 MS. TESCHENDORF: Case Number 5953. Application
4 of Rice Engineering & Operating, Inc., for amendment of
5 Order Number R-5384, Lea County, New Mexico.

6 MR. NUTTER: The Applicant has requested that the
7 Commission continue this case until June 22nd.

8 Case Number 5953 will be continued to the
9 Examiner Hearing scheduled to be held at this same place at
10 9:00 o'clock A. M., June 22.

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REPORTER'S CERTIFICATE

I, SALLY WALTON BOYD, a Certified Shorthand Reporter,
do hereby certify that the foregoing and attached Transcript
of Hearing before the New Mexico Oil Conservation Commission
was reported by me, and the same is a true and correct record
of the said proceedings to the best of my knowledge, skill
and ability.

Sally Walton Boyd
Sally Walton Boyd, C. S. R.

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I do hereby certify that the foregoing is
a complete record of the proceedings in
the hearing of Case No. 5753
dated by me on 6-8-77, 1977

[Signature], Examiner
New Mexico Oil Conservation Commission

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. 5953
Order No. R-5384-A

APPLICATION OF RICE ENGINEERING
AND OPERATING, INC., FOR AMENDMENT
OF ORDER NO. R-5384, LEA COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on June 22, 1977,
at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 5th day of July, 1977, 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 by Order No. R-5384, dated March 15, 1977, the
Commission authorized Rice Engineering and Operating, Inc.
to dispose of produced salt water into the San Andres
formation through the open-hole interval from approximately
4,176 feet to 5,500 feet in its Hobbs Salt Water Disposal Well
No. 16, located in Unit P of Section 16, Township 19 South,
Range 38 East, Lea County, New Mexico.

(3) That the applicant herein, Rice Engineering and
Operating, Inc., seeks the amendment of Commission Order No.
R-5384 to change the injection interval in said Hobbs Salt
Water Disposal Well No. 16 to be from 4,176 feet to 10,008
feet.

(4) That approval of the subject application will not cause
waste or harm correlative rights.

-2-
Case No. 5953
Order No. R-5384-A

(5) That the application should be approved.

IT IS THEREFORE ORDERED:

(1) That Order (1) of Commission Order No. R-5384 is hereby amended to read in its entirety as follows:

"(1) That the applicant, Rice Engineering & Operating, Inc., is hereby authorized to utilize its Hobbs SWD Well No. P-16, located in Unit P of Section 16, Township 19 South, Range 38 East, NMPM, Hobbs Field, Lea County, New Mexico, to dispose of produced salt water into all formations from the San Andres to the Devonian, injection to be accomplished through 4 1/2-inch tubing with injection under an oil blanket into the open-hole interval from approximately 4,176 feet to 10,008 feet;

PROVIDED HOWEVER, that the tubing shall be plastic-lined, and that pressure gauges shall be attached to the tubing and to the casing-tubing annulus in order to determine leakage in the casing or tubing."

(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

PHIL R. LUCERO, Chairman

EMERY C. ARNOLD, Member

JOE D. RAMEY, Member & Secretary

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I N D E X

Page

LOY GOODHEART

Direct Examination by Mr. Kellahin	3
Cross Examination by Mr. Stamets	7

EXHIBIT INDEX

Offered Admitted

Applicant Exhibit One, Form C-108	4	7
Applicant Exhibit Two, Plat	5	7
Applicant Exhibit Three, Schematic	5	7
Applicant Exhibit Four, Plat	5	7
Applicant Exhibit Five, List	5	7

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1 MR. STAMETS: The hearing will please come to order.
2 We will call at this time Case 5953.

3 MS. TESCHENDORF: Case 5953, application of Rice
4 Engineering & Operating, Inc. for amendment of Order No.
5 R-5354, Lea County, New Mexico.

6 MR. KELLAHIN: Tom Kellahin, Kellahin & Fox, Santa Fe
7 New Mexico appearing on behalf of the applicant. I have one
8 witness to be sworn.

9 (THEREUPON, the witness was duly sworn.)

10
11 LOY GOODHEART
12 called as a witness, having been first duly sworn, was examined
13 and testified as follows:

14
15 DIRECT EXAMINATION

16 BY MR. KELLAHIN:

17 Q Would you please state your name, by whom you are
18 employed and in what capacity?

19 A Loy Goodheart, I'm employed by Rice Engineering &
20 Operating, Incorporated as Division Manager in Hobbs, New Mexico.

21 Q Mr. Goodheart, have you previously testified before
22 the Commission and had your qualifications accepted as an
23 expert?

24 A Yes, I have and, yes, they have been.

25 MR. KELLAHIN: If the Examiner please, are the

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1 witness' qualifications acceptable?

2 MR. STAMETS: They are.

3 Q (Mr. Kellahin continuing.) Mr. Goodheart, would you
4 refer to what we have submitted as Applicant Exhibit Number
5 One, identify it and some of the background history on this
6 particular well?

7 A Are you talking about the form?

8 Q Yes, sir, the C-108.

9 A The C-108 which proposes to change our injection
10 interval in our Hobbs Salt Water Disposal Well No. P-16 located
11 six sixty from the south and six sixty from the east line of
12 Section 16, Township 19 South, 38 East.

13 Q You are now currently operating this well as a salt
14 water disposal well, are you not?

15 A The well has been previously completed as a disposal
16 well. In our original application we proposed an injection
17 interval of forty-one seventy-six to fifty-five hundred feet.
18 This is a reentry in an old well which was originally drilled
19 for an oil well test which was a dry hole to the total depth
20 of ten thousand oh oh eight feet in the Devonian. The well was
21 plugged and we reentered the thing under the authority of
22 Order R-5384 dated March 15th, 1977 and at that reentry date
23 we were going to clean out the cement plug which was supposed
24 to be placed at fifty-five hundred feet. We found no cement
25 plug at fifty-five hundred feet. We ran tubing that we had on

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1 location to a depth of sixty-seven hundred and eighty feet.
2 There was supposedly supposed to be another cement plug at
3 sixty-six hundred feet. We did not find that cement plug so,
4 therefore, this is the purpose of this amended application.

5 We suspect that perhaps the whole interval is open to
6 ten thousand oh oh eight feet, possibly, and to preclude going
7 in to place cement plugs, we propose to just lengthen the
8 interval over the whole open-hole section from forty-one
9 seventy-six to ten thousand oh oh eight feet.

10 Q Would you refer to Exhibit Number Two and identify
11 it?

12 A Exhibit Two is a plat of the well showing the well
13 location.

14 Q Exhibit Three?

15 A Exhibit Three is the schematic sketch of the wellbore
16 showing the casing strings and the cement of the whole section.
17 It has surface casing at two hundred and ninety-two feet,
18 circulated it has eight and five-eighths set at forty-one
19 seventy-six, circulated also to the surface.

20 Q Okay, Exhibit Four?

21 A Exhibit Four is an area plat showing all wells
22 within a half mile and two mile radius of the subject well.

23 Q Exhibit Five?

24 A Exhibit Five is a list of productive formations of
25 wells within a two-mile radius of the disposal well.

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1 Q What do you anticipate to be the volumes of water
2 to be disposed of in this well?

3 A We have anticipated a minimum of three thousand and
4 probably a maximum of seven thousand barrels a day. At
5 present seven thousand is the approximate capacity of the
6 well after we have completed it.

7 Q What's the source of the water?

8 A The primary source of water is the Grayburg-San Andres
9 formation in the Hobbs Pool primarily. There are a few
10 Blinebry wells but they would be insignificant as far as
11 the water volumes are concerned to this well.

12 Q Will the water be injected under gravity or under
13 pressure?

14 A This would be a gravity disposal well, no pressure
15 would be required.

16 Q What other formations from forty-one seventy-six to
17 ten thousand feet in which this water will be disposed?

18 A We would speculate that probably no water would be
19 going in any other formations other than the interval to
20 fifty-five hundred feet. We did not attempt to clean up the
21 open-hole section below that point, we only cleaned and
22 circulated the hole after we discovered we had no plugs, we
23 came back up and circulated for a period of time to clean up
24 the hole and then acidized at that point so I would speculate
25 that there would be very little if any water going down in

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1 any other formations at this time.

2 Q In your opinion, Mr. Goodheart, does the proposed
 3 disposal of this water in the interval as requested pose any
 4 hazard to fresh water sources?

5 A No, they do not.

6 Q In your opinion will approval of the application
 7 be in the best interests of conservation, prevention of
 8 waste and the protection of correlative rights?

9 A Yes, it will.

10 Q Were Exhibits One through Five prepared by you
 11 directly?

12 A They were prepared under my supervision.

13 MR. KELLAHIN: We move the introduction of Exhibits
 14 One through Five.

15 MR. STAMETS: The exhibits will be admitted.

16 (THEREUPON, Applicant Exhibits One through
 17 Five were admitted into evidence.)

18 MR. KELLAHIN: That concludes our examination.

19

20 CROSS EXAMINATION

21 BY MR. STAMETS:

22 Q Mr. Goodheart, are any of the close in producing
 23 wells producing from any of these deeper zones?

24 Q There are a couple of wells, Mr. Examiner, I believe
 25 that produce from the Blinebry within the two-mile radius, none

1 within the half-mile radius and the Blinebry wells are on the
2 outer fringe or just within the two-mile radius circle.

3 MR. STAMETS: Are there any other questions of the
4 witness? He may be excused.

5 (THEREUPON, the witness was excused.)

6 MR. STAMETS: Anything further in this case?

7 MR. KELLAHIN: No, sir.

8 MR. STAMETS: We will take the case under advisement.

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REPORTER'S CERTIFICATE

I, SIDNEY F. MORRISH, a Certified Shorthand Reporter,
do hereby certify that the foregoing and attached Transcript
of Hearing before the New Mexico Oil Conservation Commission
was reported by me, and the same is a true and correct record
of the said proceedings to the best of my knowledge, skill and
ability.

Sidney F. Morrish
Sidney F. Morrish, C.S.R.

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Phone (505) 982-9212

I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 5953.
heard by me on 6/22/77, 1977.
Richard H. Stum, Examiner
New Mexico Oil Conservation Commission

RICE Engineering & Operating, Inc.

Post Office Box 1142

Telephone (505) 393-9174

HOBBS, NEW MEXICO 88240

May 11, 1977

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

Attention: Mr. Joe D. Ramey

Re: Hobbs SWD System
Lea County, New Mexico

Gentlemen:

Rice Engineering & Operating, Inc., as operator of the Hobbs Salt Water Disposal System, hereby respectfully applies for a hearing to be held before the New Mexico Oil Conservation Commission for the purpose of extending the injection interval of the Hobbs Salt Water Disposal Well P-16, located 660' FS & EL of Section 16, Township 19 South, Range 38 East, N.M.P.M., Lea County, New Mexico. Authorization was granted under Order No. R-5384 dated March 15, 1977 for Hobbs SWD Well P-16 as a salt water injection well into the open hole interval from 4176 to 5500 feet.

Rice Engineering & Operating, Inc. hereby requests that Order No. R-5384 be amended to extend the injection interval to include the total open hole section from 4176 feet to the T.D. of 10,008 feet.

To support this request we enclose and state the following:

- A. That said well is located 660' FSL and 660' FEL of Section 16, Township 19 South, Range 38 East, Lea County, New Mexico (Exhibit "A")
- B. That said well was drilled as an unsuccessful deep test (TD 10,008') for possible productive formations with drilling completed on February 19, 1960 and plugged and abandonment completed on February 24, 1960

- C. That said well has 13-3/8" OD casing set at 292 feet and 8-5/8" OD casing set at 4176 feet with cement circulated to the surface on both strings (Exhibit "B")
- D. That Rice Engineering & Operating, Inc. re-entered the well in April, 1977 and completed as a salt water disposal well. That during completion the drill string bit was run to a depth of 6780' and cement plugs were not found at plugged depths of 5500 feet or 6600 feet.
- E. That the water to be injected is produced in the Hobbs Field with an estimated volume of 5500 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 amend Order No. R-5384 to allow disposal of salt water in the Hobbs SWD Well P-16 over entire open hole interval from 4176 to 10,008 feet.

Yours very truly,

RICE ENGINEERING & OPERATING, INC.

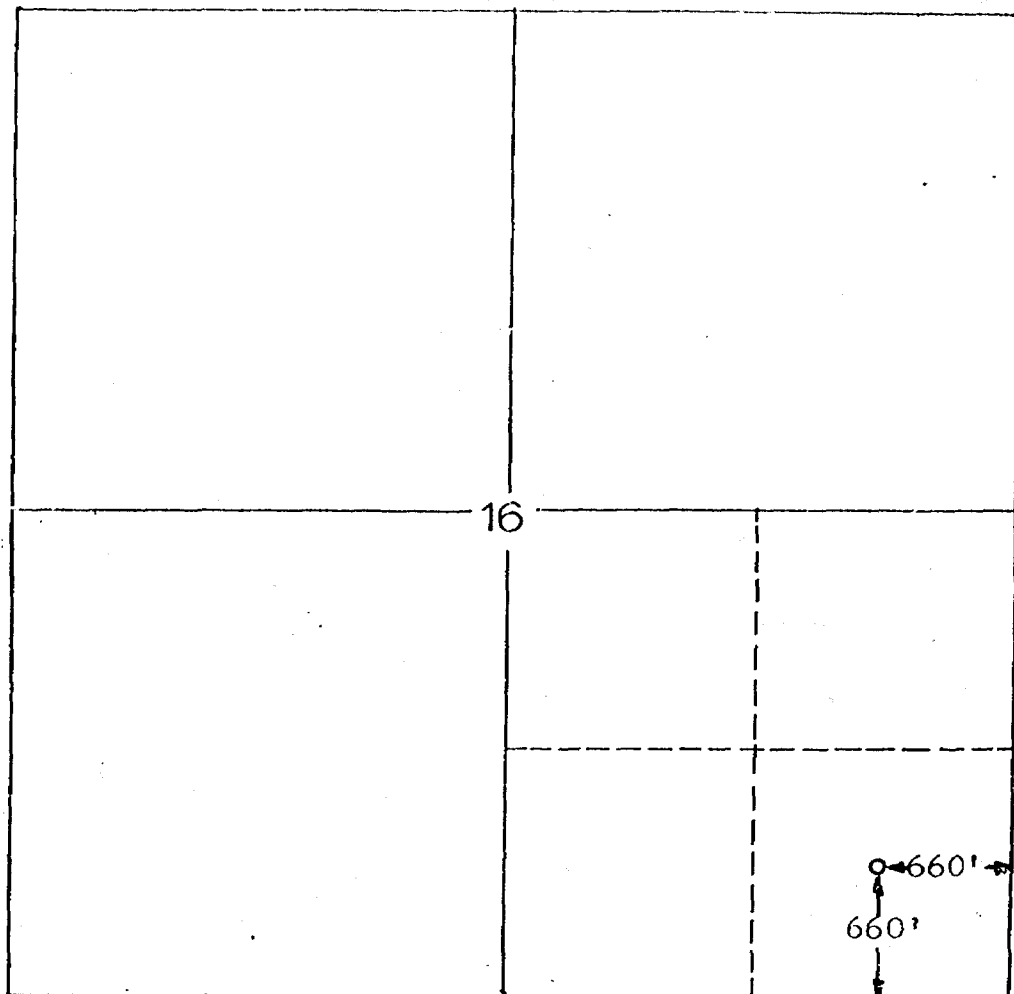
L. B. Goodheart
Division Manager

RK/jp

Attachments: Form C-108
Exhibit "A"
" " "B"
" " "C"
" " "D"

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 101.

R 38 E



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LEA COUNTY, NEW MEXICO

LEA COUNTY, NEW MEXICO
OIL CONSERVATION COMMISSION
Rice EXHIBIT NO. 2
CASE NO. 5953
Submitted By _____
Hearing Date _____

Exhibit "A"

DWN			WELL NO. P-16 HOBBS SWD SYSTEM	SCALE 1"=1000'
			Rice Engineering & Operating, Inc. Hobbs, New Mexico	DWG NO.

ZERO POINT 3604' KB

GROUND ELEV. 3588'

13 3/8" OD 48#-H Casing Set
@ 292' w/300 sks. Cement
Cement Circulated to Surface

4 1/2" Plastic Lined Tubing Set
@ approx. 4160' w/Oil Blanket
in Tubing-Casing Annulus

8 5/8" OD 24# & 32# J&H Casing
Set @ 4176' w/2200 sks. Cement
Cement Circulated to Surface

Proposed Disposal Zone
4176-10,000'

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION

Rice EXHIBIT NO. 3

CASE NO. 5953

Submitted by _____

Hearing Date _____

TD-10,000'

DIAGRAMMATIC SKETCH OF WELL
660' FSL & 660' FEL Section 16, T19S, R38E
Lea County, New Mexico

(EXHIBIT "B")

DWN			WELL NO. P-16 HOBBS SWD SYSTEM	SCALE NONE
			Rice Engineering & Operating, Inc. Hobbs, New Mexico	DWG NO.

EXHIBIT "C"

DWN			AREA PLAT HOBBS SWD WELL NO. P-16	SCALE 1" = 4000
			Rice Engineering & Operating, Inc. Hobbs, New Mexico	DWG NO.

PRODUCTIVE FORMATION OF WELLS WITHIN A
TWO-MILE RADIUS OF PROPOSED HOBBS SVD WELL P-16

COMPANY	LEASE	WELL NO.	FORMATION
Amoco	South Hobbs (GSA) Unit	62	Grayburg-San Andres -466 to -582'
"	"	63	Grayburg-San Andres -496 to -655'
"	"	64	Grayburg-San Andres -492 to -585'
"	"	65	Grayburg-San Andres -426 to -614'
"	"	66	Grayburg-San Andres -414 to -624'
"	"	67	Grayburg-San Andres -384 to -596'
"	"	68	Grayburg-San Andres -459 to -590'
"	"	69	Grayburg-San Andres -509 to -672'
"	"	70	Grayburg-San Andres -454 to -534'
"	"	71	Grayburg-San Andres -391 to -465'
"	"	72	Grayburg-San Andres -387 to -457'
"	"	73	Grayburg-San Andres -512 to -667'
"	"	74	Grayburg-San Andres -384 to -586'
"	"	75	Grayburg-San Andres -439 to -618'
"	"	76	Grayburg-San Andres -401 to -558'
"	"	77	Grayburg-San Andres -394 to -595'
"	"	78	Grayburg-San Andres -467 to -660'
"	"	79	Grayburg-San Andres -507 to -585'
"	"	80	Grayburg-San Andres -530 to -568'
"	"	81	Grayburg-San Andres -496 to -543'
"	"	82	Grayburg-San Andres -417 to -505'
"	"	83	Grayburg-San Andres -421 to -600'
"	"	84	Grayburg-San Andres -409 to -618'
"	"	85	Grayburg-San Andres -550 to -570'
"	"	86	Grayburg-San Andres -501 to -609'
"	"	87	Grayburg-San Andres -475 to -632'
"	"	88	Grayburg-San Andres -386 to -580'
"	"	89	Grayburg-San Andres -500 to -615'
"	"	90	Grayburg-San Andres -464 to -524'
"	"	91	Grayburg-San Andres -450 to -597'
"	"	92	Grayburg-San Andres -439 to -600'
"	"	93	Grayburg-San Andres -480 to -588'
"	"	94	Grayburg-San Andres 4016 to 4177' Elev. not available
"	"	95	Grayburg-San Andres -477 to -585'
"	"	96	Grayburg-San Andres -465 to -593'
"	"	97	Grayburg-San Andres -575 to -612'
"	"	98	Grayburg-San Andres -467 to -512'
"	"	99	Grayburg-San Andres -452 to -506' T/A
"	"	100	Grayburg-San Andres -547 to -566'
"	"	101	Grayburg-San Andres -411 to -574'

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION

Rice EXHIBIT NO. 5

CASE NO. 5953

Scheduled by _____

Hearing Date _____

COMPANY	LEASE	WELL NO.	FORMATION
Amoco Contd.	South Hobbs (GSA) Unit	102	Grayburg-San Andres -546 to -579'
"	"	103	Grayburg-San Andres -409 to -584'
"	"	104	Grayburg-San Andres -569 to -598'
"	"	105	Grayburg-San Andres -472 to -525'
"	"	106	Grayburg-San Andres -477 to -563'
"	"	107	Grayburg-San Andres -402 to -582'
"	"	108	Grayburg-San Andres -473 to -517'
"	"	109	Grayburg-San Andres -404 to -584'
"	"	110	Grayburg-San Andres -482 to -634'
"	"	111	Grayburg-San Andres -497 to -584'
"	"	34	Paddock -768 to -772' T/A
"	H. T. Orcutt	1	Grayburg-San Andres -398 to -498'
"	Terry et al	1	Grayburg-San Andres 4140 to 4194' Elev. not available
Christman	J. Hughes	1	4011' P/A
Cone	Will Terry	1	Grayburg-San Andres -469 to -514' P/A
Energy	Foster B	1	Drinkard -3607 to -4004'
"	Foster C	1	Drinkard -3119 to 3264'
Felmont	Terry	1	-817' TD P/A
R. Lowe	F. Selman	1	-3886 to -4031' P/A
Marathon	State Sec. 9	1	South Bowers-Seven Rivers +407 to +267'
Martindale	Selman	1	Grayburg-San Andres 4202 to 4250' P/A
Moran	Etal	1	-670 to -702' Dry hole P/A
Pan American	A.L. Foster A	1	Blinbry, Drinkard -2542 to -3358 to -2652' -3462' P/A
Rice Eng.	Hobbs SWD	E-15	Lower San Andres -1063 to -1215'
Shenandoah	W. Terry	1	Drinkard -3135 to -3288' P/A
Shell	Terry	1	-640' TD Dry hole
Skelly	Mexico "U"	2	Grayburg-San Andres -469 to -554'
Sohio	Bordages et al	1	-6689' Dry hole
Stanolind	Terry Tract	1	4071 to 4185' Elev. not avail. P/A
"	Wright	6	4275' TD Dry hole P/A
Texaco	J. H. Moore	1	-480 to -528' P/A
"	N. Corp. Ltd.	2	-501 to -583' P/A
US Smelt.	Bordages	1	-569 to -618' dry, -3437 to -4279' dry P/A
Forest	Yates	1	San Andres -872 to 876' P/A

Case 5953
ad for hearing
June 9, 1977

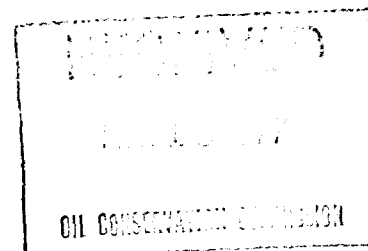
RICE Engineering & Operating, Inc.

Post Office Box 1142

Telephone (505) 393-9174

HOBBS, NEW MEXICO 88240

May 11, 1977



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

Attention: Mr. Joe D. Ramey

Re: Hobbs SWD System
Lea County, New Mexico

Gentlemen:

Rice Engineering & Operating, Inc., as operator of the Hobbs Salt Water Disposal System, hereby respectfully applies for a hearing to be held before the New Mexico Oil Conservation Commission for the purpose of extending the injection interval of the Hobbs Salt Water Disposal Well P-16, located 660' FS & EL of Section 16, Township 19 South, Range 38 East, N.M.P.M., Lea County, New Mexico. Authorization was granted under Order No. R-5384 dated March 15, 1977 for Hobbs SWD Well P-16 as a salt water injection well into the open hole interval from 4176 to 5500 feet.

Rice Engineering & Operating, Inc. hereby requests that Order No. R-5384 be amended to extend the injection interval to include the total open hole section from 4176 feet to the T.D. of 10,008 feet.

To support this request we enclose and state the following:

- A. That said well is located 660' FSL and 660' FEL of Section 16, Township 19 South, Range 38 East, Lea County, New Mexico (Exhibit "A")
- B. That said well was drilled as an unsuccessful deep test (TD 10,008') for possible productive formations with drilling completed on February 19, 1960 and plugged and abandonment completed on February 24, 1960

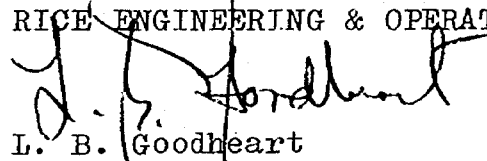
Page 2 - NMOC - May 11, 1977

- C. That said well has 13-3/8" OD casing set at 292 feet and 8-5/8" OD casing set at 4176 feet with cement circulated to the surface on both strings (Exhibit "B")
- D. That Rice Engineering & Operating, Inc. re-entered the well in April, 1977 and completed as a salt water disposal well. That during completion the drill string bit was run to a depth of 6780' and cement plugs were not found at plugged depths of 5500 feet or 6600 feet.
- E. That the water to be injected is produced in the Hobbs Field with an estimated volume of 5500 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 amend Order No. R-5384 to allow disposal of salt water in the Hobbs SWD Well P-16 over entire open hole interval from 4176 to 10,008 feet.

Yours very truly,

RICE ENGINEERING & OPERATING, INC.


L. B. Goodheart
Division Manager

RK/jp

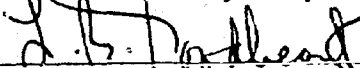
Attachments: Form C-108
Exhibit "A"
" " "B"
" " "C"
" " "D"

Case 5953

Form C-108
Revised 1-1-65NEW MEXICO OIL CONSERVATION COMMISSION
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

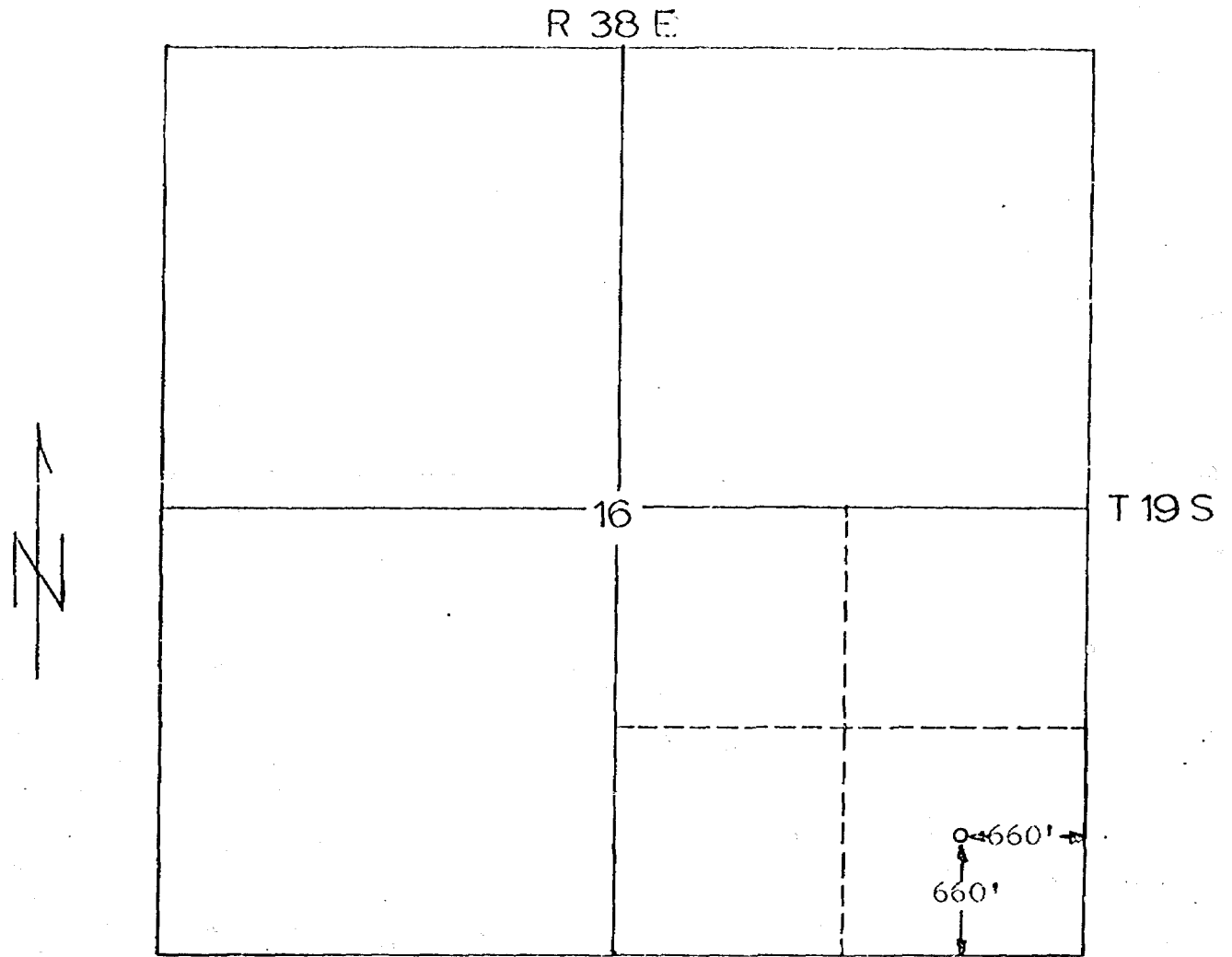
OPERATOR Rice Engineering & Operating, Inc.		ADDRESS P. O. Box 1142, Hobbs, New Mexico	
LEASE NAME Hobbs Salt Water Disposal	System	WELL NO. P-16	COUNTY Lea
LOCATION UNIT LETTER <u>P</u> ; WELL IS LOCATED <u>660</u> FEET FROM THE <u>South</u> LINE AND <u>660</u> FEET FROM THE <u>East</u> LINE, SECTION <u>16</u> TOWNSHIP <u>19S</u> RANGE <u>38E</u> NMPM.			
CASING AND TUBING DATA			
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT
SURFACE CASING	13-3/8	292	300
INTERMEDIATE			
LONG STRING	8-5/8	4176	2200
TUBING	4 1/2	4160	NAME, MODEL AND DEPTH OF TUBING PACKER Non-floating oil blanket in tubing-casing annulus
NAME OF PROPOSED INJECTION FORMATION San Andres to Devonian		TOP OF FORMATION San Andres 4210	BOTTOM OF FORMATION Devonian 10,008
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? open-hole	PROPOSED INTERVAL(S) OF INJECTION 4176 to 10,008 (-572 to -6404)
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil well		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 None			
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA Unknown		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 4210 (Grayburg)	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA -2542 SS (Drinkard)
ANTICIPATED DAILY INJECTION VOLUME (BBLs.)	MINIMUM 3000	MAXIMUM 7000	OPEN OR CLOSED TYPE SYSTEM Semi closed
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	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Gravity
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Muriel T. McNeill, Box 686, Hobbs, New Mexico 88240		ARE WATER ANALYSES ATTACHED? No	
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Amoco Production Company, Box 68, Hobbs, New Mexico 88240			
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? Yes		SURFACE OWNER Yes	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes	
PLAT OF AREA Yes		THE NEW MEXICO STATE ENGINEER Yes	
ELECTRICAL LOG 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.


 Division Manager
 May 11, 1977

(Signature) L. B. Goodheart
 (Title)
 (Date)

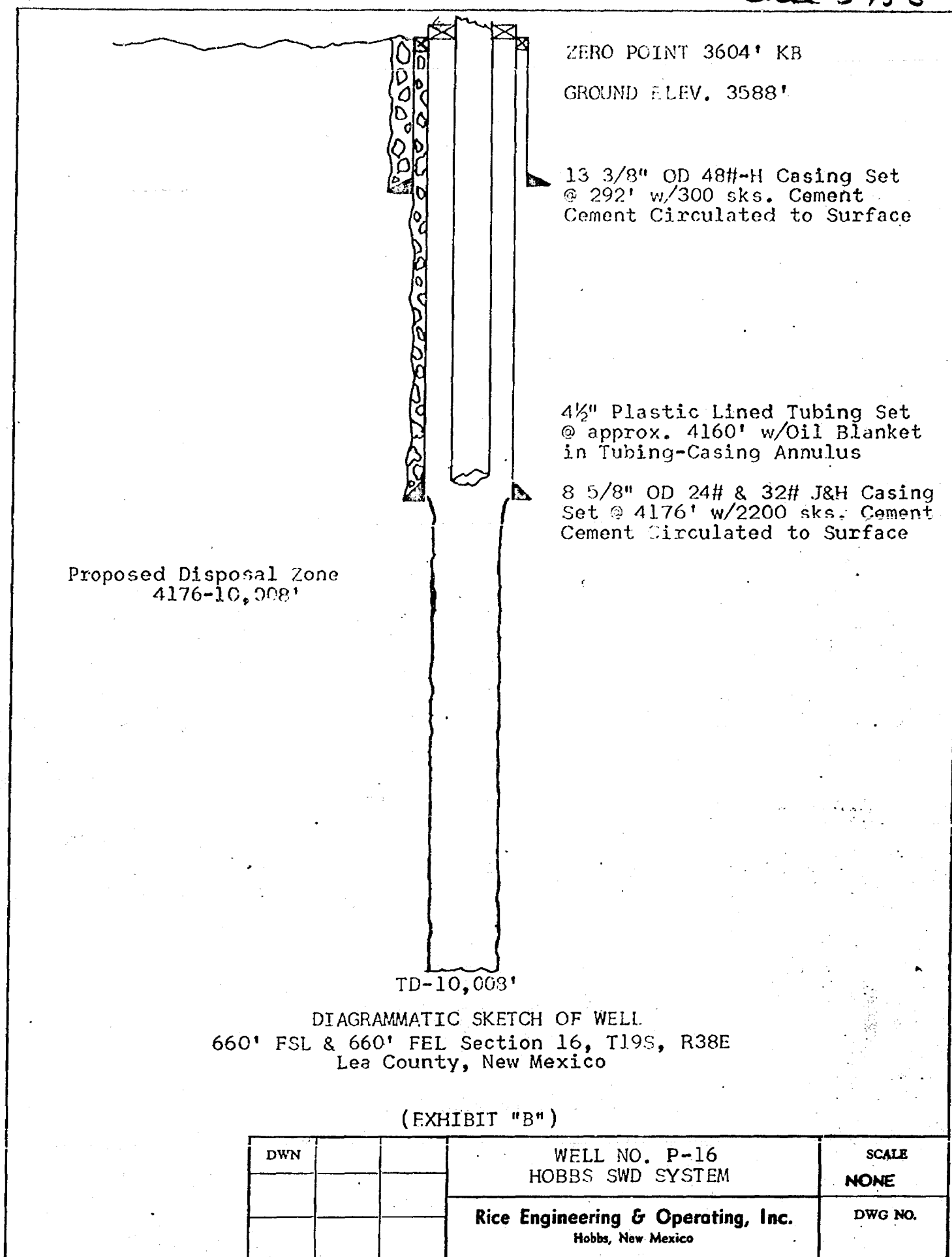
NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well, not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's 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.



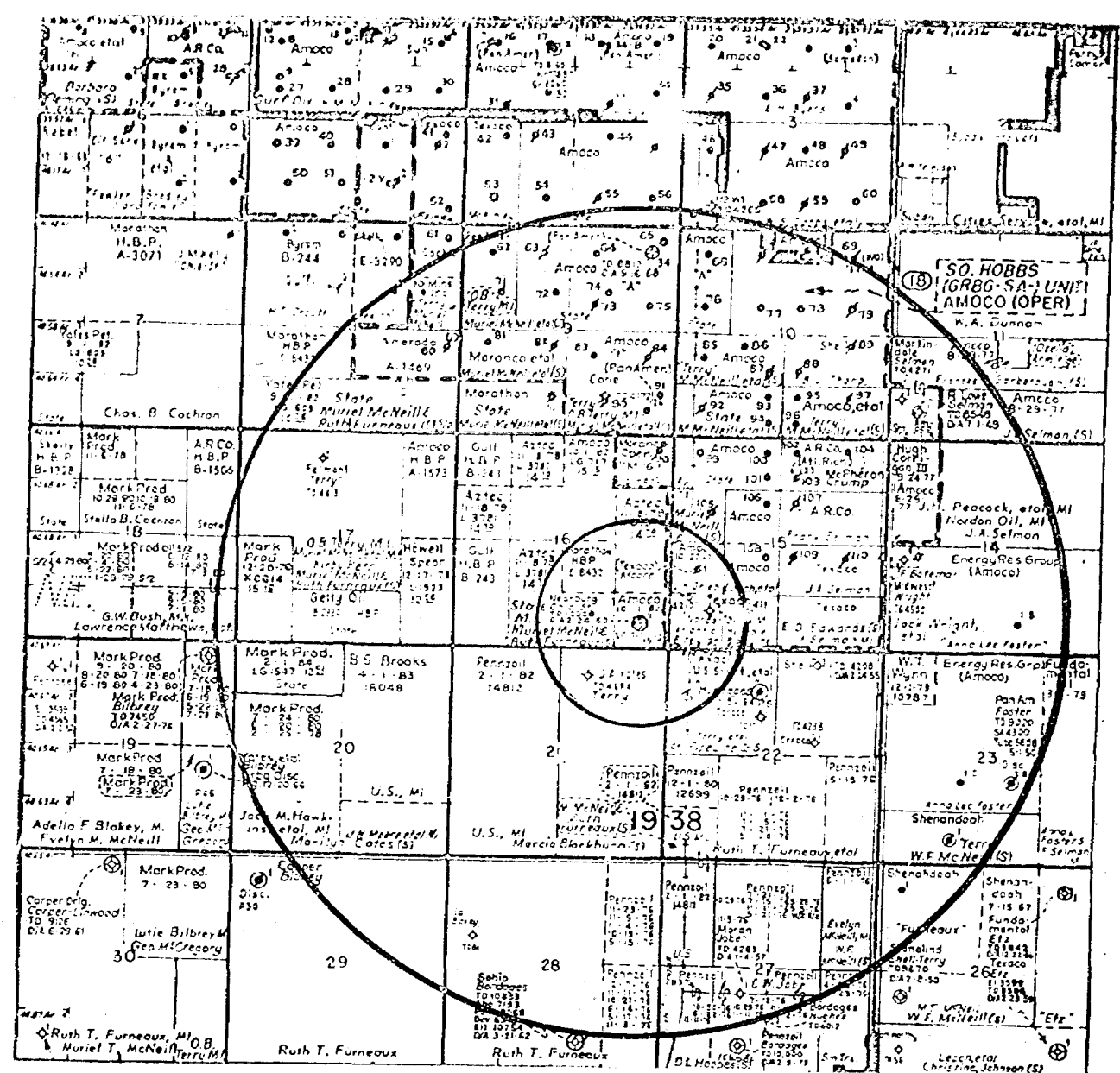
LEA COUNTY, NEW MEXICO

Exhibit "A"

DWN			WELL NO. P-16 HOBBS SWD SYSTEM	SCALE 1"=1000'
			Rice Engineering & Operating, Inc. Hobbs, New Mexico	DWG NO.



R 38 E



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19
S

LEA COUNTY, NEW MEXICO

EXHIBIT "C"

DWN				AREA PLAT HOBBS SWD WELL NO. P-16	SCALE 1" = 4000'
				Rice Engineering & Operating, Inc. Hobbs, New Mexico	DWG NO.

PRINCIPAL PARTIALS OF THE TOWN OF
 TW. - HILL ROAD, ST. ANDRES, S. P. I. 1912-13

COMPANY ANCOB	SECT. SOUTH COB S (GHA) 1st	NO.	PLANT-ROAD
"	"	62	Grayburg-San Andres -416 to -582'
"	"	63	Grayburg-San Andres -491 to -585'
"	"	64	Grayburg-San Andres -492 to -585'
"	"	65	Grayburg-San Andres -426 to -614'
"	"	66	Grayburg-San Andres -414 to -624'
"	"	67	Grayburg-San Andres -384 to -596'
"	"	68	Grayburg-San Andres -459 to -599'
"	"	69	Grayburg-San Andres -509 to -612'
"	"	70	Grayburg-San Andres -454 to -534'
"	"	71	Grayburg-San Andres -391 to -465'
"	"	72	Grayburg-San Andres -367 to -457'
"	"	73	Grayburg-San Andres -512 to -667'
"	"	74	Grayburg-San Andres -384 to -586'
"	"	75	Grayburg-San Andres -439 to -618'
"	"	76	Grayburg-San Andres -401 to -558'
"	"	77	Grayburg-San Andres -394 to -595'
"	"	78	Grayburg-San Andres -467 to -660'
"	"	79	Grayburg-San Andres -507 to -585'
"	"	80	Grayburg-San Andres -530 to -568'
"	"	81	Grayburg-San Andres -496 to -543'
"	"	82	Grayburg-San Andres -417 to -505'
"	"	83	Grayburg-San Andres -421 to -600'
"	"	84	Grayburg-San Andres -409 to -618'
"	"	85	Grayburg-San Andres -550 to -570'
"	"	86	Grayburg-San Andres -501 to -609'
"	"	87	Grayburg-San Andres -475 to -632'
"	"	88	Grayburg-San Andres -386 to -580'
"	"	89	Grayburg-San Andres -500 to -615'
"	"	90	Grayburg-San Andres -464 to -524'
"	"	91	Grayburg-San Andres -450 to -597'
"	"	92	Grayburg-San Andres -439 to -600'
"	"	93	Grayburg-San Andres -480 to -588'
"	"	94	Grayburg-San Andres 4016 to 4177' Elev. not available
"	"	95	Grayburg-San Andres -477 to -585'
"	"	96	Grayburg-San Andres -465 to -593'
"	"	97	Grayburg-San Andres -575 to -612'
"	"	98	Grayburg-San Andres -467 to -512'
"	"	99	Grayburg-San Andres -452 to -506' T/A
"	"	100	Grayburg-San Andres -547 to -566'
"	"	101	Grayburg-San Andres -411 to -574'

CAMPANY	PISS	WELL	WELL NAME
Amoco Contd.	South Hobbs (OSA) Unit	102	Grayburg-San Andres -546 to -579'
"	"	103	Grayburg-San Andres -409 to -584'
"	"	104	Grayburg-San Andres -409 to -583'
"	"	105	Grayburg-San Andres -472 to -525'
"	"	106	Grayburg-San Andres -477 to -563'
"	"	107	Grayburg-San Andres -402 to -582'
"	"	108	Grayburg-San Andres -473 to -517'
"	"	109	Grayburg-San Andres -404 to -584'
"	"	110	Grayburg-San Andres -402 to -584'
"	"	111	Grayburg-San Andres -497 to -584'
"	"	34	Panlock -713 to -772' P/A
"	P. T. Drost	1	Grayburg-San Andres -398 to -498'
"	Terry et al.	1	Grayburg-San Andres 4140 to 4194' Elev. not available
Christman	J. Hughes	1	4011' P/A
Cone	Will Terry	1	Grayburg-San Andres -409 to -514' P/A
Energy	Poster B	1	Brinkard -3607 to -4004'
"	Poster C	1	Brinkard -3119 to 3264'
Felmont	Terry	1	-417' TD P/A
R. Lowe	F. Selman	1	-3686 to -4031' P/A
Marathon	State Sec. 9	1	South Bowers-Seven Rivers -407 to -4267'
Martindale	Selman	1	Grayburg-San Andres 4202 to 4250' P/A
Moran	Skal	1	-678 to -702' Dry hole P/A
Pan American	A.E. Poster A	1	Blindbry, Brinkard -2542 to -3358 to -2852' -3462' P/A
Rice Eng.	Hobbs SWD	2-15	Lower San Andres -1063 to -1215'
Shenandoah	W. Terry	1	Brinkard -3139 to -3288' P/A
Shell	Terry	1	-647' TD Dry hole
Skelly	Mexico -11	2	Grayburg-San Andres -409 to -584'
Sohio	Bordages et al.	1	-4103' Dry hole
Stanolind	Terry Tract	1	4071 to 4185' Elev. not avail. P/A
"	Wright	0	4071' TD Dry hole P/A
Texaco	J. H. Moore	1	-400 to -522' P/A
"	N. Corp. Ltd.	2	-501 to -583' P/A
US Smelt.	Bordages	1	-569 to -613' dry, -3437 to -4279' dry P/A
Forest	Yates	1	San Andres -872 to 876' P/A

- CASE 5967: Application of Belco Petroleum Corporation for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying all of Section 8 and in the other Pennsylvanian formations underlying the E/2 of said Section 8, Township 24 South, Range 35 East, Cinta Roja-Morrow Gas Pool, Lea County, New Mexico, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.
- CASE 5968: Application of Sun Oil Company for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Drinkard and Tubb production in the wellbore of its Elliott A Well No. 2 located in Unit H of Section 21, Township 21 South, Range 37 East, Lea County, New Mexico.
- CASE 5969: Application of Getty Oil Company for an exception to Rule 104(C), Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 104(C) to permit its Mexico "L" Wells Nos. 3 and 24, located in Unit B of Section 5, Township 25 South, Range 38 East, Dollarhide-Fusselman Field, Lea County, New Mexico, to be located closer than 330 feet to each other.
- CASE 5953: (Continued from June 8, 1977, Examiner Hearing)
Application of Rice Engineering & Operating, Inc., for amendment of Order No. R-5384, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-5384 to extend the injection interval in its Hobbs Salt Water Disposal Well No. 16 located in Unit P of Section 16, Township 19 South, Range 38 East, Lea County, New Mexico, to include the total open-hole section from 4176 feet to 10,008 feet.
- CASE 5954: (Continued from June 8, 1977, Examiner Hearing)
Application of Caulkins Oil Company for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Pictured Cliffs and Chacra production in the wellbore of its Breech Well No. 363 located in Unit I of Section 23, Township 26 North, Range 7 West, Rio Arriba County, New Mexico.
- CASE 5956: (Continued from June 8, 1977, Examiner Hearing)
Application of Continental Oil Company for a non-standard proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for a 160-acre non-standard gas proration unit comprising the E/2 NE/4, NW/4 NE/4, and NE/4, SE/4 of Section 27, Township 20 South, Range 38 East, Warren-Tubb Gas Pool, Lea County, New Mexico, to be dedicated to its Warren Unit Well No. 42 located in Unit I of said Section 27.
- CASE 5970: Application of Texaco Inc., for statutory unitization, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order unitizing, for the purpose of pressure maintenance, all mineral interests in the Grayburg-San Andres formation underlying the following-described lands, Vacuum-Grayburg-San Andres Pool, Lea County, New Mexico:

TOWNSHIP 17 SOUTH, RANGE 34 EAST
Section 25: SE/4 NE/4 and S/2
Section 36: All

TOWNSHIP 17 SOUTH, RANGE 35 EAST
Section 30: All
Section 31: N/2, SW/4, and SW/4 SE/4

TOWNSHIP 18 SOUTH, RANGE 34 EAST
Section 12: N/2 NE/4

TOWNSHIP 18 SOUTH, RANGE 35 EAST
Section 6: All
Section 7: NW/4 and NW/4 NE/4

Among the matters to be considered at the hearing will be the necessity of unit operations; the designation of a unit operator; the determination of the horizontal and vertical limits of the unit area; the determination of a fair, reasonable, and equitable allocation of production and costs of production, including capital investment, to each of the various tracts in the unit area; the determination of credits and charges to be made among the various owners in the unit area for their investment in wells and equipment; and such other matters as may be necessary and appropriate for carrying on efficient unit operations, including, but not-necessarily limited to, unit voting procedures, selection, removal, or substitution of unit operator, and time of commencement and termination of unit operations.

RICE Engineering & Operating, Inc.

Post Office Box 1142

Telephone (505) 393-9174

HOBBS, NEW MEXICO 88240

May 27, 1977

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico 87501
Attn: Mr. Joe D. Ramey

Case 5953

Re: Hobbs SWD System
Lea County, New Mexico
SWD Well P-16

ADW
Gentlemen:

This will confirm telephone request to Mr. Richard L. Stamets this date for postponement of scheduled hearing of June 8, 1977 for amendment of Order No. R-5384 to extend the injection interval in our Hobbs SWD Well P-16 to include total open hole section from 4,176 feet to T.D. of 10,008 feet.

I will be out of the state on the scheduled date of June 8, 1977 and respectfully request that Case No. 5953 be postponed and rescheduled for June 22, 1977.

Yours very truly,

RICE ENGINEERING & OPERATING, INC.

L. B. Goodheart

L. B. Goodheart
Division Manager

LBG/ac

- CASE 5950: Application of Joe Don Cook for an exception to Order No. R-3221, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks, as an exception to the provisions of Commission Order No. R-3221, permission to dispose of produced salt water from his State Well No. 1, located in Unit J of Section 2, Township 19 South, Range 31 East, Shurart Pool, Eddy County, New Mexico, into an earthen evaporation pit in said Section 2.
- CASE 5951: Application of Odessa Natural Corporation for compulsory pooling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Dakota formation underlying the W/2 of Section 32, Township 24 North, Range 3 West, Rio Arriba County, New Mexico, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.
- CASE 5952: Application of Hudson & Hudson for unorthodox oil well locations, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox locations of 14 oil wells to be drilled at the following locations:
- 25 feet from the North and East lines of Units B, C, D, E, F, G, J, K, M, and O; and 25 feet from the North line and 320 feet from the East line of Units A, H, I, and P, all in Section 25, Township 17 South, Range 31 East, Maljarar Grayburg-San Andres Pool, Eddy County, New Mexico.
- CASE 5953: Application of Rice Engineering & Operating, Inc., for amendment of Order No. R-5384, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-5384 to extend the injection interval in its Hobbs Salt Water Disposal Well No. 16 located in Unit P of Section 16, Township 19 South, Range 38 East, Lea County, New Mexico, to include the total open-hole section from 4176 feet to 10,008 feet.
- CASE 5954: Application of Caulkins Oil Company for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Pictured Cliffs and Chacra production in the wellbore of its Breech Well No. 368 located in Unit I of Section 23, Township 26 North, Range 7 West, Rio Arriba County, New Mexico.
- CASE 5955: Application of Penroc Oil Corporation for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Foxie-Federal Well No. 2 to be drilled in the center of Unit O of Section 18, Township 20 South, Range 28 East, Eddy County, New Mexico, the E/2 of said Section 18 to be dedicated to the well.
- CASE 5956: Application of Continental Oil Company for a non-standard proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for a 160-acre non-standard gas proration unit comprising the E/2 NE/4, NW/4 NE/4, and NE/4 SE/4 of Section 27, Township 20 South, Range 38 East, Warren-Tubb Gas Pool, Lea County, New Mexico, to be dedicated to its Warren Unit Well No. 42 located in Unit I of said Section 27.
- CASE 5957: Application of Continental Oil Company for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Otero-Chacra and South Blanco-Pictured Cliffs production in the wellbores of its AXI Apache "J" Wells Nos. 9 and 11, located in Units C and A, respectively, of Section 6, and Wells Nos. 10 and 12, located in Units A and K of Section 5, Township 25 North, Range 5 West, Rio Arriba County, New Mexico.
- CASE 5958: Application of Continental Oil Company for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Connales-Mesaverde and Otero-Chacra production in the wellbores of its AXI Apache "J" Wells Nos. 18, 23, and 24 located in Units A, D, and P of Section 8; Nos. 19 and 22 in Units D and L of Section 6; Nos. 20 and 21, in Units C and I of Section 5; and No. 25 in Unit A of Section 7, all in Township 25 North, Range 5 West, Rio Arriba County, New Mexico.
- CASE 5959: In the matter of the application of the Oil Conservation Commission on its own motion to consider the creation, extension, and abolishment of certain pools in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico:
- a) CREATE a new pool in Chaves County, New Mexico, classified as an oil pool for San Andres production and designated as the North Gato-San Andres Pool. The discovery well is the Cleary Petroleum Corporation Federal "15" Well No. 1 located in Unit M of Section 15, Township 7 South, Range 30 East, NMPM. Said pool would comprise:

TOWNSHIP 7 SOUTH, RANGE 30 EAST, NMPM
Section 15: SW/4

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. 5953

Order No. R- 5384-A

APPLICATION OF RICE ENGINEERING
AND OPERATING, INC., FOR AMENDMENT
OF ORDER NO. R-5384, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on June 22, 1977, at Santa Fe, New Mexico, before Examiner Richard L. Stamets

NOW, on this day of , 1977, 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 by Order No. R-5384, dated March 15, 1977, the Commission authorized Rice Engineering and Operating, Inc., to dispose of produced salt water into the San Andres formation through the open-hole interval from approximately 4176 feet to 5500 feet into Hobbs Salt Water Disposal Well No. 16.

located in Unit P of Section 16, Township 19 South, Range 38 East, Lea County, New Mexico, to include the total open-hole section from ~~herein~~.

(3) That the applicant, Rice Engineering and Operating, Inc., seeks the amendment of Commission Order No. R-5384 to ^{change} extend the injection interval in ^{said} its Hobbs Salt Water Disposal Well No. 16 ^{to be} from 4176 feet to 10,008 feet.

(4) That approval of the subject application will not cause waste or harm correlative rights.

(5) That the application should be approved.

-2-

Case No. 5953

Order No. R-5384-A

IT IS THEREFORE ORDERED:

(1) That Order (1) of Commission Order No. R-5384 is hereby amended to read in its entirety as follows:

"(1) That the applicant, Rice Engineering & Operating, Inc., is hereby authorized to utilize its Hobbs SWD Well No. P-16, located in Unit P of Section 16, Township 19 South, Range 38 East, NMPM, Hobbs Field, Lea County, New Mexico, to dispose of produced salt water into the San Andres ^{all formations from} ~~to the Devonian,~~ injection to be accomplished through 4 1/2-inch tubing with injection under an oil blanket into the open-hole interval from approximately 4176 feet to ¹⁰⁰⁰⁰ ~~5500~~ feet;

copy
PROVIDED HOWEVER, that the tubing shall be plastic-lined, and that pressure gauges shall be attached to the tubing and to the casing-tubing annulus in order to determine leakage in the casing or tubing."

(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 herein-above designated.