

CASE 3823: Application of ATLANTIC
RICHFIELD CO. FOR SALT WATER
DISPOSAL, EDDY COUNTY, NEW MEXICO.

Case Number

3823

Application
Transcripts.

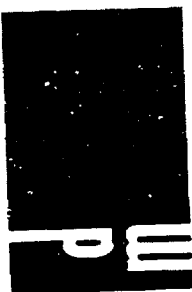
Small Exhibits

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

1120 SIMMS BLDG. • P. O. BOX 1092 • PHONE 243-4491 • ALBUQUERQUE, NEW MEXICO



BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
August 7, 1968

EXAMINER HEARING

IN THE MATTER OF:)
)
)

Application of Atlantic
Richfield Company for salt water
disposal, Eddy County, New Mexico.)
)
)

CASE NO. 3823

BEFORE: Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING

Witnessed and sworn to before me this _____ day of _____, 19____.

Notary Public

BY _____, Clerk of the Court, County of _____, State of _____.

Christy, Kowalski, appeared before me, a Notary Public, and acknowledged to me that she is the owner of the above described property. We have one witness, and there are no other persons present. I have administered the witness oath.

Witness sworn.

whereupon, I administered the
Oaths to the parties and the
witnesses for identification.

JERRY L. TWEED, called as a witness, having been first duly sworn, was examined and testified as follows:

PERMITS EXAMINATION

BY MR. HARRIS:

Q State your name.

A Jerry Tweed.

Q Where do you reside?

A Brownsville.

Q By whom are you employed?

A Assistant to the Sheriff's Office.

Q In what capacity?

A Retiree's Employee.

Q Have you previously testified before the Old

Conservation Commission?

A Yes, I have.

Q And your qualifications as a Petroleum Engineer are a matter of record with the Commission?

A Yes.

Q Are you familiar with the application of Atlantic Richfield in Case No. 3823?

A Yes, I am.

Q What is Atlantic Richfield seeking to do by this application?

A We are making application to dispose of produced water from our leases into the State A Number 45 located in the center of the southwest of the northeast of Section 26, Township 17 South, Range 28 East. This well is to be abandoned as a producer, and water is to be disposed of in the lower San Andres and Paddock formations.

MR. UTZ: Excuse me. What was your last name?

THE WITNESS: Tweed, T-w-e-e-d.

MR. UTZ: T-w-e-e-d. All right. Proceed.

Q (By Mr. Hinkle) Mr. Tweed, have you prepared or has there been prepared under your direction exhibits to be introduced in this case?

A Yes, there have.

Q Refer to Atlantic Richfield Exhibit Number 1 and explain to the Commission what this is and what it shows.

A It shows the status of the producing wells in the

two mile radius of the State A No. 45; their status, the lease owners, TD and producing horizons. The deep production here is in the Empire-Abo Field. Of course, now the shallow production is a portion of the Red Lake, Artesia and "A" pool. Also shown on the exhibit is our well with the red arrow that we plan to convert to disposal, and shown in red, also, is the cross section location.

Q Do you plan to inject into the well shown in red there, into what formation?

A Into the lower San Andres and Paddock.

Q Where is this water to come from that you are going to dispose of in this well?

A It will be the produced water from Atlantic Richfield Company's leases in the Empire-Abo Field.

Q Do you have any idea as to the quantity of water that will be disposed of?

A Approximately 300 barrels of water per day.

Q Is that what is being produced at the present time or do you contemplate it will be increased to that amount?

A That is what is being produced at the present time. The pool is not a water drive and we don't anticipate any particular increase in water production.

Q What is the present status of the proposed injection well, as far as producing is concerned?

A It's producing -- it is currently making one barrel of oil and three barrels of water per day and is an uneconomical.

Q How do you propose to use this well in disposing of the water? Will you build a gathering line from the respective wells that are producing water to this well, or how will you --

A Yes. The production comes to a central tank battery, and we will take it from there to tank at this particular well and, there, inject it.

Q Where is this central tank battery located with reference to the well?

A It's approximately due south in the neighborhood of our -- approximately 18 --

Q Approximately a half a mile?

A Yes, half a mile south.

Q And you will lay a line from that tank battery to the well --

A Yes.

Q -- for injection purposes?

MR. UTZ: Somewhere between your Number 24 and 19?

THE WITNESS: Yes, sir.

Q (By Mr. Hinkle) Now, is there anything else you wish to say with respect to Exhibit Number 1?

A No.

Q Refer to Atlantic Richfield Exhibit Number 2 and explain what that is.

A Exhibit Number 2 is a log cross section showing the top of the San Andres. Essentially, what we are showing on this exhibit is the relative position of where we plan to dispose of the water to the offsetting shallow production. The shallow production is in the Grayburg, just above the top of the San Andres formation, at around, at approximately 2040 feet, say, on our State A No. 45. We plan to inject into the lower San Andres starting at just below 2700 feet in the Paddock. These proposed perforations are shown in dotted line on the log.

Q You will be injecting that into the San Andres and the Paddock formations?

A Yes, sir, the lower San Andres and Paddock formations.

Q Do you anticipate any trouble or difficulty in those formations taking water?

A No, we do not.

Q Do you anticipate any corrosion problems that you will have due to the handling of this water for disposal?

A We have not had any corrosion problems in the producing wells. We plan to maintain a closed system and reinject it by means of a closed system and we don't anticipate

any corrosion problems with the water.

Q Now, refer to your Exhibit Number 3 and explain what it shows.

A This is a schematic diagram of our proposed hookup of the disposal well. We plan to inject down into the lower San Andres perforations, 2738 to 80, 2965 to 3032; and the Paddock perforations, 3809 to 4030. Planning to set a packer at approximately 2670 feet. The Abo formation, which is presently being produced, will be plugged off by means of a bridge plug with cement on top of it.

Q Will you fill the annulus with an inhibitor fluid?

A Yes, we will.

Q And either leave it open or set a gauge on it so you can tell if there's any leaks?

A Yes.

Q In your opinion, will the disposal of salt water in this manner be in the interest of conservation and prevention of waste?

A Yes, it will.

Q Do you have any other comments with respect to this application?

A No.

MR. HINKLE: We'd like to offer into evidence Exhibits 1, 2 and 3.

MR. UTZ: Without objection, Exhibits 1, 2, 3 will be admitted into the record in this case.

(Whereupon, Applicant's Exhibits 1, 2 and 3 were admitted into evidence.)

MR. HINKLE: That's all on Direct testimony.

CROSS EXAMINATION

BY MR. UTZ:

Q Packer casing string, five and a half and cement to be circulated, is that correct?

A Yes.

Q Surface casing is also circulated?

A Yes.

Q How is the casing in this well?

A It is relatively recent. I think 1961, approximately, is when the well was completed.

Q Now, I gather from your testimony that you don't intend to use plastic-coated tubing.

A That's right.

Q Now, the annulus above the packer, I see there's only one packer, the upper packer, what will you do with that?

A We will put an inhibited non-corrosive fluid in the annulus.

Q Do you intend to close it at the top or use a pressure gauge?

A We plan to use a pressure gauge in the top.

Q Do you have an analysis of the water that you intend to dispose of in this well?

A No, sir, we do not.

Q Do you have any idea what the chloride content is?

A It would be relatively high. Like I said, it is not corrosive within itself. We feel like that if we maintain a closed system and do not allow oxygen to get in contact with water, that we will not have trouble with corrosion.

Q Now, you say it is high. What do you mean? A hundred and fifty thousand?

A Around a hundred thousand parts per million.

Q Parts per million. Did you make any statements as to the -- any production in the San Andres, Paddock zones in this immediate area?

A No, sir. In the area covered by the map, my investigation showed some wells are listed as San Andres. The general case, however, was to set pipe in some cases and produce the lower Grayburg Sand with maybe five or ten feet of the San Andres open. It appears that a great deal of the -- all of the production in this general area is from the Grayburg and that the San Andres is not productive. The only San Andres that is open is the top few feet of the San Andres.

Q And how far above your injection zone would that be?

A Approximately 600 feet. The Paddock does not produce in this particular area.

MR. UTZ: Are there any other questions of the witness?

MR. HINKLE: That's all we have.

MR. UTZ: The witness may be excused. Do we have any statements in this case? The case will be taken under advisement.

I N D E X

WITNESS		PAGE
JERRY L. TWEED		
Direct Examintion by Mr. Hinkle		2
Cross Examination by Mr. Utz		8

<u>EXHIBIT</u>	<u>MARKED</u>	<u>OFFERED AND ADMITTED</u>
Applicant's 1, 2, 3	2	8

STATE OF NEW MEXICO)
) ss
COUNTY OF BERNALILLO)

I, CHARLOTTE J. MACIAS, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; and that the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability.

Witness my Hand and Seal this 30th day of August, 1968.

Charlitt Macias
Notary Public

My Commission Expires:

Feb. 10, 1971

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 3823, heard by me on Aug 7, 1968.

[Signature] Examiner
New Mexico Oil Conservation Commission

GOVERNOR
DAVID F. CARGO
CHAIRMAN

State of New Mexico
Oil Conservation Commission



LAND COMMISSIONER
GUYTON B. HAYS
MEMBER

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

P. O. BOX 2088
SANTA FE

August 13, 1968

Mr. Clarence Hinkle
Hinkle, Bondurant & Christy
Attorneys at Law
Post Office Box 10
Roswell, New Mexico 88201

Re: Case No. 3823
Order No. R-3468
Applicant:
Atlantic Richfield Company

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 x

Aztec OCC

Other State Engineer Office

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. 3823
Order No. R-3468

APPLICATION OF ATLANTIC RICHFIELD COMPANY
FOR SALT WATER DISPOSAL, EDDY COUNTY, NEW
MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on August 7, 1968, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 13th day of August, 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, Atlantic Richfield Company, is the owner and operator of the State "A" Well No. 45, located in Unit G of Section 25, Township 17 South, Range 28 East, NMPM, Empire-Abo Pool, Eddy County, New Mexico.

(3) That the applicant proposes to utilize said well to dispose of produced salt water into the Lower San Andres formation, with injection into the perforated interval from approximately 2738 feet to 3032 feet and into the Paddock formation, with injection into the perforated interval from approximately 3809 feet to 4033 feet.

(4) That the injection should be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 2670 feet; that the annulus should be filled with an inert fluid; and that a pressure gauge should be attached to the annulus or the annulus left open at the surface to determine leakage in the tubing or packer.

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

-2-

CASE No. 3823
Order No. R-3468

IT IS THEREFORE ORDERED:

(1) That the applicant, Atlantic Richfield Company, is hereby authorized to utilize its State "A" Well No. 45, located in Unit G of Section 26, Township 17 South, Range 28 East, NMPM, Empire-Abo Pool, Eddy County, New Mexico, to dispose of produced salt water into the Lower San Andres formation, in the perforated interval from approximately 2738 feet to 3032 feet and into the Paddock formation in the perforated interval from approximately 3809 feet to 4030 feet, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 2670 feet;

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

(2) That the 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


GUYTON B. HAYS, Member


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



esr/

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. 3738
Order No. R-3394

APPLICATION OF PAN AMERICAN PETROLEUM
CORPORATION FOR SALT WATER DISPOSAL,
CHAVES COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on March 20, 1968, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 25th day of March, 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, Pan American Petroleum Corporation, is the owner and operator of the State "CF" SWD Well No. 1, located in Unit I of Section 13, Township 11 South, Range 27 East, NMPM, Chisum-Devonian Pool, Chaves County, New Mexico.

(3) That the applicant proposes to utilize said well to dispose of produced salt water into the San Andres and Yeso formations, with injection into the open-hole interval from approximately 2190 feet to 3450 feet.

(4) That the injection should be accomplished through 2 7/8-inch internally plastic-coated tubing set at 2190 feet and cemented in the well bore with the top of said cement being at a depth of approximately 350 feet inside the 13 3/8-inch surface casing.

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

-2-

CASE No. 3738

Order No. R-3394

IT IS THEREFORE ORDERED:

(1) That the applicant, Pan American Petroleum Corporation, is hereby authorized to utilize its State "CF" SWD Well No. 1, located in Unit I of Section 13, Township 11 South, Range 27 East, NMPM, Chisum-Devonian Pool, Chaves County, New Mexico, to dispose of produced salt water into the San Andres and Yeso formations, injection to be accomplished through 2 7/8-inch internally plastic-coated tubing set at 2190 feet and cemented in the well bore with the top of said cement at a depth of approximately 350 feet inside the surface casing, with injection into the open-hole interval from approximately 2190 feet to 3450 feet.

(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

GUYTON B. HAYS, Member

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

S E A L

esr/

~~3778~~ 3823

Heard 8-7-68

Rec. 8-8-68.

Grant Atlantic's request for
S.W.P. for ~~it~~ ^{their} L.T. # 45
in Empire abo. Pool, Eddy Co.

S.W. shall be injected thru tubing
& under a packer into the

San Andreas Paddock formation

The S.A. perfs are 2738-8, 2865-3032,

- Paddock perfs. are 3809-49, 3928-49

4000-30

Cumulus shall be filled with
inert fluid & w. pressure gauge
at surface.

No. Internally lined tubing is
planned but system will
be closed. Ch & approx. 100,000

PPM.

B.A. Prod. is approx. 600' above
injection zone.

Thos. W.

DOCKET: EXAMINER: 23-68

9 A.M. - OIL CONSERVATION DIVISION, NEW MEXICO
STATE LAND OFFICE, ALBUQUERQUE, NEW MEXICO

The following cases will be heard before James A. Nutter, Examiner, on April 5.
Nutter, Alternate Examiner:

CASE 3778: (Continued from the June 5, 1968 Examiner Hearing)

Application of Atlantic Richfield Company for a dual completion and salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to fully complete its State SH Well No. 1 located 660 feet from the north and west lines of Section 13, Township 13 South, Range 14 East, Quail-Queen Pool, Lea County, New Mexico, in such a manner as to permit production of oil from 5080 feet to 5136 feet in the lower Queen formation through tubing and the disposal of produced salt water into the upper Queen formation through the casing-tubing annulus in the perforated interval from 4920 feet to 4830 feet.

CASE 3823:

Application of Atlantic Richfield Company for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres and Paddock formations in its State SH Well No. 45 located in Unit G, Section 26, Township 17 South, Range 28 East, Empire-Abo Pool, Eddy County, New Mexico, in the perforated interval from 2738 feet to 3032 feet (San Andres) and 3809 feet to 4030 feet (Paddock).

CASE 3824:

Application of Atlantic Richfield Company for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its West Red Lake Unit Area by the injection of water into the Queen, Grayburg, and San Andres formations through 13 wells located in Sections 4, 5, 7, 8, and 9, Township 18 South, Range 27 East, Red Lake Queen Grayburg-San Andres Pool, Eddy County, New Mexico.

CASE 3825:

Application of Pan American Petroleum Corporation for a unit agreement, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval of the East Buffalo Valley Unit Area comprising 15,356 acres, more or less, of Federal, State and Fee lands in Township 14 South, Ranges 28 and 29 East, Chaves County, New Mexico.

CASE 3642: (Reopened)

In the matter of Case No. 3642 being reopened pursuant to the provisions of Order No. R-3305, which order established 640-acre spacing units for the North Osado-Morrow Gas Pool, Lea County, New Mexico, for a period of one year. All interested parties may appear and show cause why said pool should not be developed on 320-acre spacing units.

CASE 3803 (Continued and readvertised)

Application of Gulf Oil Corporation for an amendment to Order No. R-3345, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-3345, which authorized a waterflood project in its Stuart Langlie Matrix Unit Area, Langlie Matrix Pool, Lea County, New Mexico, to delete the water injection wells previously authorized in Unit M of Section 2, Units A, C, and I of Section 16, and Unit C of Section 11, all in Township 25 South, Range 37 East, and to authorize for water injection four wells at the following unorthodox locations in Section 10: a well 100' from the North line and 1650' from the West line; a well 100' from the North line and 660' from the East line; a well 1315' from the North line and 100' from the West line; and a well 1420' from the South line and 100' from the East line. Applicant also seeks in the amendment authority to convert three additional wells located in Units H and F of said Section 10 and Unit F of said Section 11 to water injection. In the absence of objection, the case will be submitted and an order issued upon the evidence presented in said Case July 10, 1968.

CASE 3826:

Application of Eugene B. Nearburg for salt water disposal, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Devonian formation in the open-hole interval from approximate 7965 feet to 8015 feet in his Magnolia Bart Federal Well No. 1 located in Unit P, Section 5, Township 8 South, Range 30 East, Gato Field, Chaves County, New Mexico.

CASE 3827:

Application of Tri-Service Drilling Company to directionally drill, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill its T. P. State Well No. 1 located 1887 feet from the East line and 2126 feet from the South line of Section 1, Township 16 South, Range 38 East, Lea County, New Mexico. Said well was drilled to a total depth of 13,014 feet and has subsequently been whipstocked to a location 596.5 feet east and 181.5 feet north of said surface location. Applicant proposes to set a whipstock at 11,570 feet and directionally drill to a depth of approximately 13,000 feet and to bottom said well in the Devonian formation at a point approximately 300 feet east and 300 feet south of its surface location.

CASE 3828:

Application of W. M. Callaway for a non-standard gas proration unit, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 197.77-acre non-standard gas proration unit comprising the S/2 of Section 18, Township 23 North, Range 3 West, Ballard-Pictured Cliffs Gas Pool, Rio Arriba County, New Mexico, said unit to be dedicated to applicant's Apache Well No. 1 located 835 feet from the South line and 875 feet from the East line of said Section 18.

- CASE 3829: Application of Getty Oil Company for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 104 C II (a) to permit the drilling of a well at an unorthodox gas well location 1980 feet from the North line and 990 feet from the East line of Section 27, Township 12 South, Range 34 East, West Ranger Lake-Devonian Gas Pool, Lea County, New Mexico. The N/2 of said Section 27 to be dedicated to said well.
- CASE 3830: Application of Kewanee Oil Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Atoka San Andres Unit Area comprising 3,360 acres, more or less, of Fee land in Township 18 South, Range 26 East, Atoka-San Andres Pool, Eddy County, New Mexico.
- CASE 3831: Application of Kewanee Oil Company for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its Atoka San Andres Unit Area by the injection of water into the San Andres formation through 28 injection wells located in Township 18 South, Range 26 East, Atoka-San Andres Pool, Eddy County, New Mexico.
- CASE 3832: Application of Sinclair Oil & Gas Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Guadalupe Ridge Unit Area comprising 23,358 acres, more or less, of federal and fee lands in Townships 25 and 26 South, Range 21 and 22 East, Eddy County, New Mexico.
- CASE 3833: Application of Petroleum Corporation of Texas for a non-standard gas proration unit and two unorthodox gas well locations, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a non-standard gas proration unit comprising the N/2 SE/4 and SW/4 SE/4 of Section 13, Township 24 South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico, said unit to be dedicated to applicant's Maggie Dunn Wells Nos. 2 and 3 located 990 feet from the East line and 1650 feet from the South line and 1650 feet from the East line and 1650 feet from the South line, respectively, of said Section 13. Applicant further seeks authority to produce the allowable assigned to said unit from either of the aforesaid wells in any proportion.

CLARENCE E. HINKLE
W. E. BONDURANT, JR.
S. E. CHRISTY IV
LEWIS C. COX, JR.
PAUL W. EATON, JR.
CONRAD E. COFFIELD
HAROLD L. HENSLEY, JR.
MICHAEL R. WALLER
STUART D. SHANOR

LAW OFFICES
HINKLE, BONDURANT & CHRISTY
600 HINKLE BUILDING
ROSWELL, NEW MEXICO 88201

MIDLAND, TEXAS OFFICE
521 MIDLAND TOWER
(915) MU 3-4391
OF COUNSEL: HIRAM M. DOW

July 10, 1968

TELEPHONE (505) 622-6510
POST OFFICE BOX 10

Case 3823

68 JUL 12 AM 8 24

Oil Conservation Commission
Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

We enclose in triplicate application of Atlantic Richfield Company for approval of disposal of salt water produced from its leases located in the Empire-Abo Pool into its State "A" No. 45 well located in the SW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 26, Township 17 South, Range 28 East, Eddy County.

We would appreciate your setting this matter down for hearing at the examiners hearing to be held on August 7.

Yours very truly,

HINKLE, BONDURANT & CHRISTY

By *Clarence E. Hinkle*

CEH:cs

Enc.

cc: Atlantic Richfield

RECEIVED
Date 7-26-68

BEFORE THE OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

APPLICATION OF ATLANTIC RICHFIELD)
COMPANY FOR AN ORDER TO PERMIT THE)
INJECTION OF PRODUCED WATER FROM)
ATLANTIC RICHFIELD'S LEASES IN THE)
EMPIRE-ABO POOL INTO ATLANTIC RICH-)
FIELD'S STATE "A" NO. 45 WELL LOCATED)
IN THE SW $\frac{1}{4}$ NE $\frac{1}{4}$ SECTION 26, TOWNSHIP 17)
SOUTH, RANGE 28 EAST, N.M.P.M. EDDY)
COUNTY, NEW MEXICO WHICH IS TO BE)
ANBANDONED AS A PRODUCING WELL, AND)
SAID WATER INJECTED INTO THE LOWER)
SAN ANDRES AND PADDOCK FORMATIONS)
WHICH ARE NON-PRODUCTIVE)

'68 JUL 12 AM 8 24

Case 3823

Oil Conservation Commission
Box 2088
Santa Fe, New Mexico 87501

Comes Atlantic Richfield Company, acting by and through the undersigned attorneys, and hereby makes application to the Oil Conservation Commission for an order approving the injection of produced water from Atlantic Richfield's leases in the Empire-Abo Pool into Atlantic Richfield's State "A" No. 45 well located in the SW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 26, Township 17 South, Range 28 East which is to be abandoned as a producing well, and said water injected into the lower San Andres and Paddock formations which are non-productive, and in support thereof respectfully shows:

1. That Atlantic Richfield's State "A" No. 45 well is located on a State oil and gas lease owned by Atlantic Richfield in the Empire-Abo Pool, and at the present time said well is making approximately 1 barrel of oil and 3 barrels of water per day. Atlantic Richfield is also the owner of other leasehold interests on which are situated wells producing from the Empire-Abo Pool located in Sections 25, 26, 34, 35 and 36 which are producing at the present time between 250 and 300 barrels of water and Atlantic Richfield proposes to rework its State "A" No. 45 well to condition the same for

disposal of the water produced from Atlantic Richfield's leases into the lower San Andres and Paddock formations which are non-productive.

2. That there is filed herewith a plat showing the location of the proposed injection well and the location of all other wells within a radius of 2 miles from said proposed injection well and the formations from which said wells are producing or have produced.

3. That there is filed herewith an electrical log of said proposed injection well.


4. There is also filed herewith a diagrammatic sketch of the proposed injection well showing the casing strings, including diameters and setting depths, quantities used and tops of cement and perforations, as well as tubing string, including diameter and setting depth, and the bridge plug which is to be set at approximately 4,150 feet.

5. A copy of this application, together with a copy of the plat, log and diagrammatic sketch, are being furnished to the office of the State Engineer, Capitol Building, Santa Fe, in accordance with the provisions of Rule 701.

Applicant requests that this matter be set down for the examiner's hearing to be held on August 7.

Respectfully submitted,

ATLANTIC RICHFIELD COMPANY

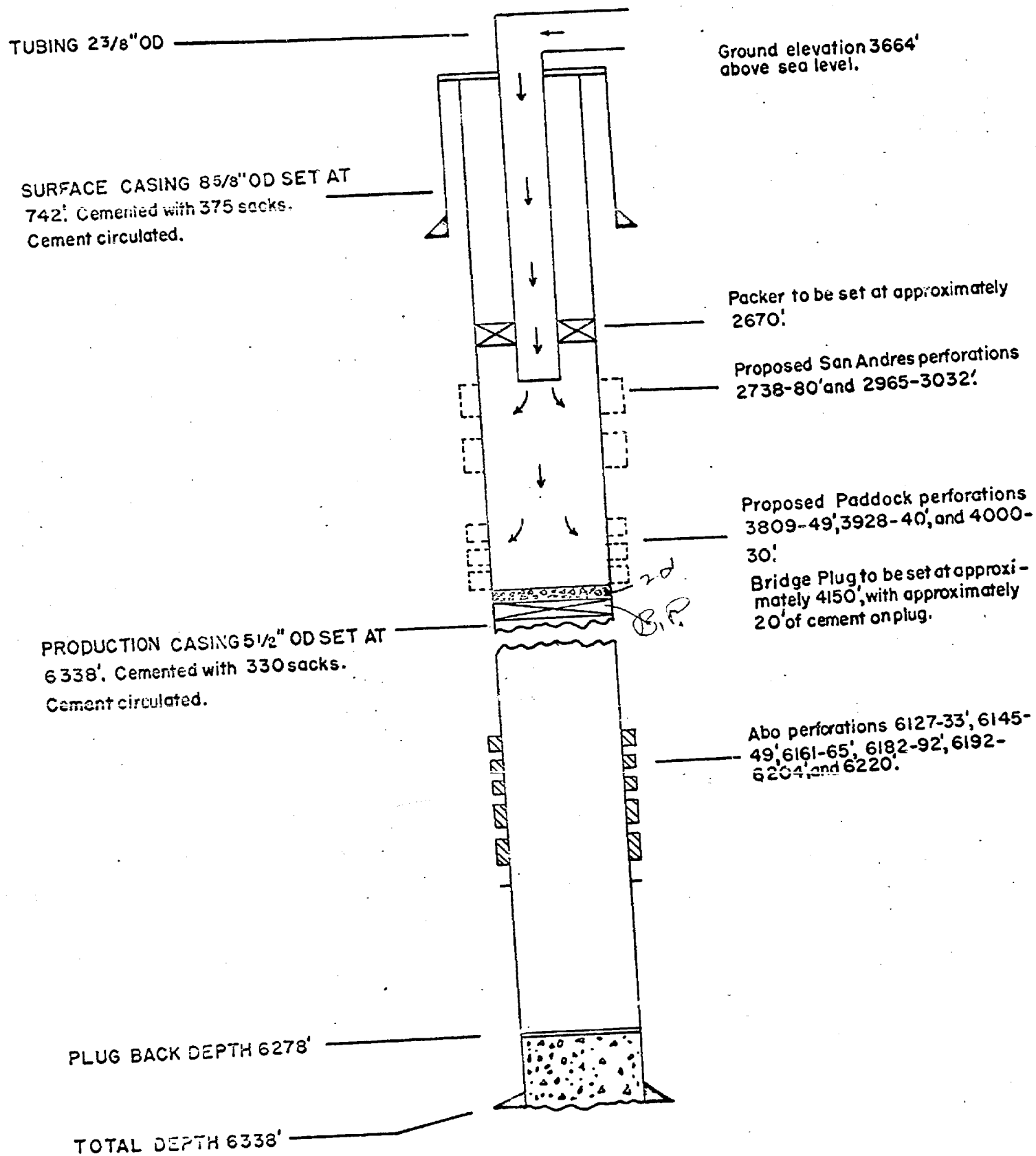
By 
Member of the Firm of
HINKLE, BONDURANT & CHRISTY
Attorneys for Applicant
Box 10
Roswell, New Mexico

ATLANTIC RICHFIELD COMPANY

EXHIBIT NO. 3

SCHEMATIC DRAWING

STATE "A" WELL NO. 45
EMPIRE ABO FIELD
EDDY COUNTY, N.M.

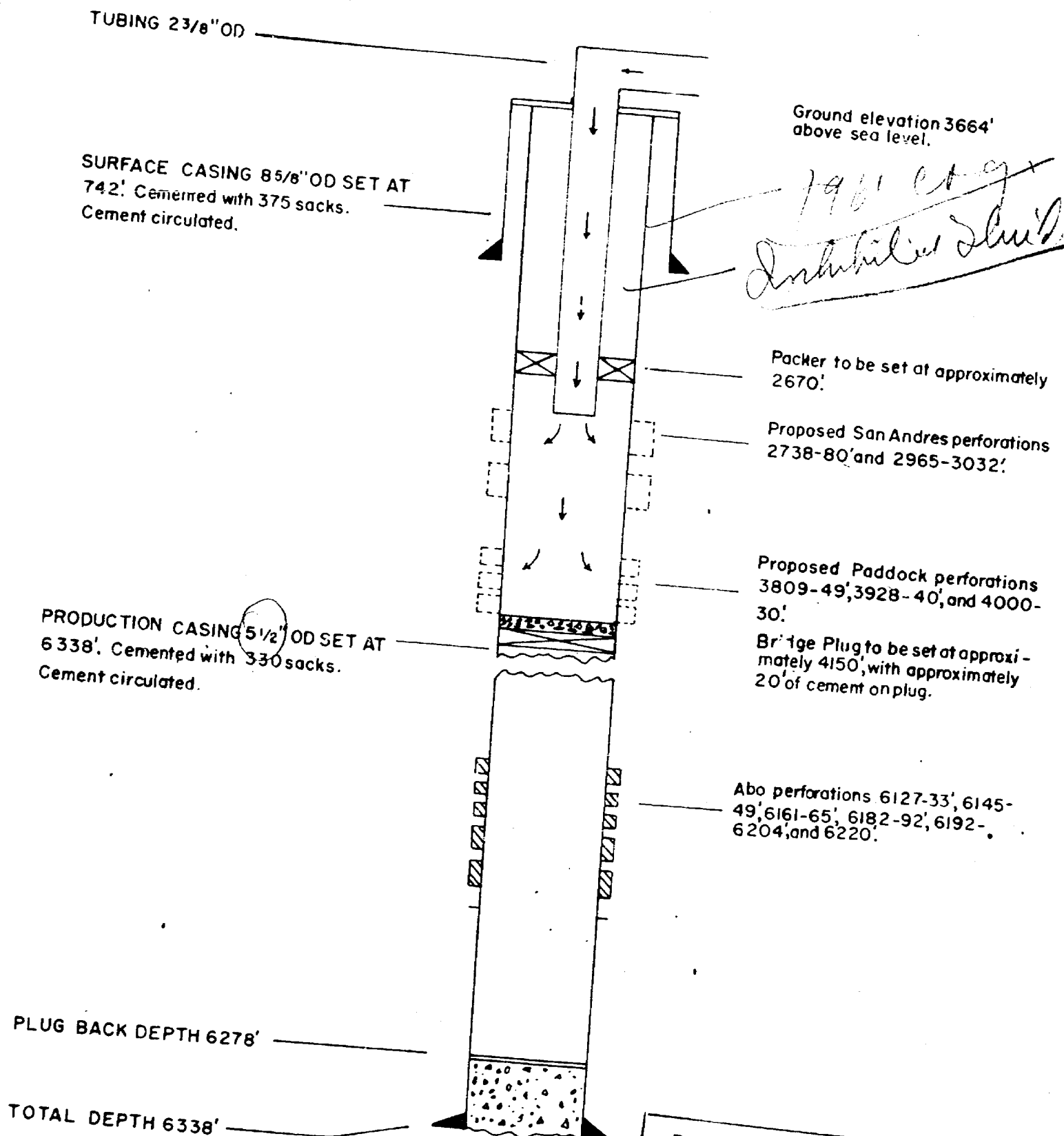


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BEFORE EXAMINER UTZ
CLERK OF COURT
EXHIBIT NO. 3
CASE NO. 3823