

Atlantic Richfield Company

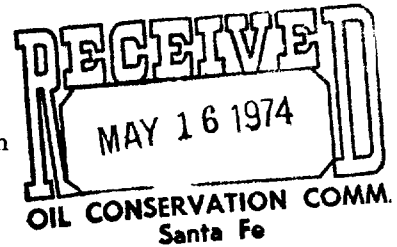
North American Producing Division  
Permian District  
Post Office Box 1610  
Midland, Texas 79701  
Telephone 915 682 8631

PMX-58



May 13, 1974

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



Attn: Mr. A. L. Porter, Jr. (5)

Re: Redesignation of Empire Abo Unit  
Wells B-49, C-49, and C-50 to  
Water Injection Wells  
ARCO-Empire Abo Unit Pressure Maintenance Project  
Eddy County, New Mexico

Gentlemen:

Atlantic Richfield Company, as operator of the Empire Abo Unit Pressure Maintenance Project, acting on behalf of itself and the other participating working interest owners, requests administrative approval under the provisions of Order No. R-4549-B, amended Rule 14, of the Special Rules and Regulations for the Empire Abo Pressure Maintenance Project, dated April 30, 1974, for the designation of Unit Wells B-49, C-49, and C-50 as water injection wells.

Empire Abo Unit wells B-49, C-49, and C-50 are located on a Federal Oil and Gas Lease, located within the Unitized Project Area, as approved by Commission Order R-4549, Finding (4), dated June 15, 1973. At the present time said wells have been abandoned as producing wells. Atlantic Richfield Company proposes to rework Unit Wells B-49, C-49, and C-50, and condition the same for injection of produced Abo water into the Unitized Abo Reef. Initially said injection will be into Unit Well C-49 until such time that injection pressures become excessive and/or the quantity of produced water exceeds the well's injection capability, at which time, Unit Wells B-49 and C-50 will be utilized for water injection.

The redesignation of Empire Abo Unit Wells B-49, C-49, and C-50 meets all the requirements of Order R-4549-B, amended Rule 14, said wells being located "no closer than 660 feet to the outer boundary of said Unit nor closer than 10 feet to any quarter-quarter section or subdivision inner boundary and provided that no well shall be approved for gas or water injection when such well is located closer than 1650 feet to a tract which is not committed to the Unit and on which is located a well producing from the same common source of supply, " (see attached plats, Exhibit 1 and 2, and Well Location and Acreage Dedication Plats, Exhibits 3, 4, and 5).

New Mexico Oil Conservation Commission  
May 13, 1974  
Page 2

In compliance with Order R-4549-B, amended Rule 14, attached are following exhibits:

- 1) A plat identifying the Lands committed to the Unit Agreement and those Lands not committed to said agreement, and showing the location of the proposed wells, and all wells within the Unit Area, and offset operators (Exhibits 1 through 5).
- 2) A schematic drawing of the proposed wells which fully describes the casing, tubing, perforated interval, and depth (Exhibits 6 through 11).
- 3) A letter stating that all offset operators to the proposed wells have been furnished a complete copy of the application and the date of notification.

Very truly yours,

  
C. R. Leggott, Jr.

GES/agp

Attachments (12)

North American Producing Division  
Permian District  
Post Office Box 1610  
Midland, Texas 79701  
Telephone 915 682 8631



May 13, 1974

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

Attention: Mr. A. L. Porter, Jr.

Re: Notification of Offset Operators  
Redesignation of Unit Wells B-49, C-49, and C-50  
to Water Injection Wells  
ARCO - Empire Abo Unit Pressure  
Maintenance Project  
Eddy County, New Mexico

Gentlemen:

Atlantic Richfield Company, as operator of the Empire Abo Unit Pressure Maintenance Project, in Accordance with Order No. R-4549-B, amended Rule 14, under "Special Rules and Regulations for the Empire-Abo Pressure Maintenance Project," has notified all offset operators to Unit Wells B-49, C-49, and C-50 by copy of this application.

Attached please find a list of offset operators to Unit Wells B-49, C-49, and C-50 and the date they were notified.  
Very truly yours,

*C. R. Leggott, Jr.*  
C. R. Leggott, Jr.

GES/agp

Attachment (1)

OFFSET OPERATORS TO EMPIRE  
ABO UNIT WELLS B-49, C-49,  
AND C-50.

OPERATOR

DATE OF NOTIFICATION

- |    |   |              |
|----|---|--------------|
| 1) | Continental Oil Company<br>P. O. Box 460<br>Hobbs, New Mexico 88240<br><br>Attn: Mr. L. P. Thompson                           | May 16, 1974 |
| 2) | DEPCO, Inc.<br>1025 Petroleum Club Bldg.<br>Denver, Colorado 80202<br><br>Attn: Mr. C. D. Crump                               | May 16, 1974 |
| 3) | General American Oil Company of Texas<br>Meadows Bldg.<br>Dallas, Texas 75026<br><br>Attn: Mr. Kent Nicholson                 | May 16, 1974 |
| 4) | Midwest Oil Corporation<br>1500 Wilco Bldg.<br>Midland, Texas 79701<br><br>Attn: Mr. John Pulte                               | May 16, 1974 |
| 5) | Tenneco Oil Corporation<br>Suite 1200, Lincoln Tower Bldg.<br>Denver, Colorado 80203<br><br>Attn: District Production Manager | May 16, 1974 |
| 6) | Shenandoah Oil Corporation<br>1500 Commerce Bldg.<br>Fort Worth, Texas 76102<br><br>Attn: Mr. Neal Toler                      | May 16, 1974 |

**EXHIBIT 3**  
**NEW MEXICO OIL CONSERVATION COMMISSION**  
**WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
 Supersedes C-128  
 Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator <b>Atlantic Richfield Company</b>			Lease <b>Empire Abo Unit B</b>		Well No. <b>49</b>
Unit Letter <b>E</b>	Section <b>29</b>	Township <b>17-S</b>	Range <b>29-E</b>	County <b>Eddy</b>	
Actual Footage Location of Well: <b>1980</b> feet from the <b>north</b> line and <b>330</b> feet from the <b>west</b> line					
Ground Level Elev: <b>3620'</b>	Producing Formation <b>Abo Reef</b>	Pool <b>Empire Abo</b>		Dedicated Acreage: <b>40</b> Acres	

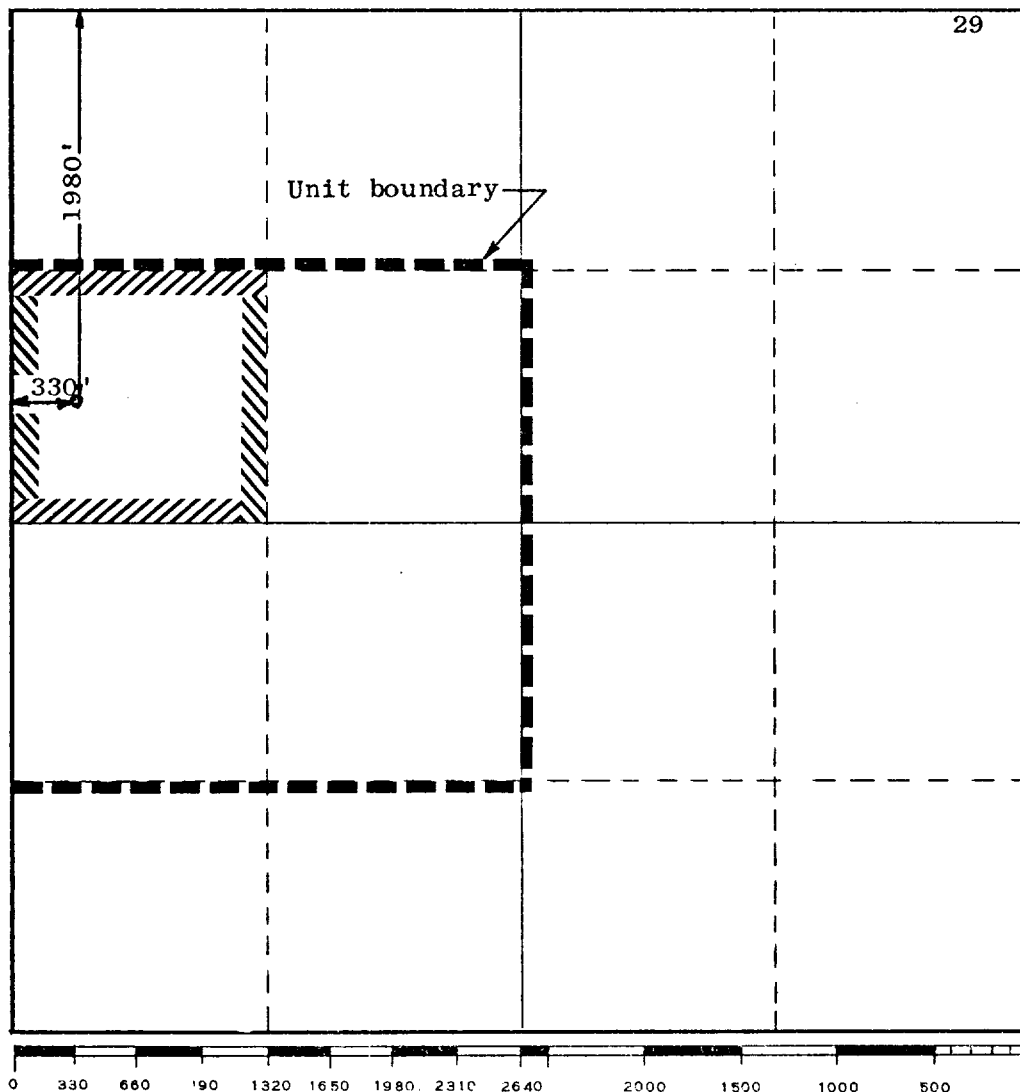
1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes    ☐ No    If answer is "yes," type of consolidation Unitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

R-29-E



**CERTIFICATION**

*I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.*

*C. R. Leggott Jr.*

Name

**C. R. Leggott, Jr.**

Position

**District Engineer**

Company

**Atlantic Richfield Co.**

Date

**May 10, 1974**

*I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.*

Date Surveyed

Registered Professional Engineer  
and/or Land Surveyor

Certificate No.

**EXHIBIT 4**  
**NEW MEXICO OIL CONSERVATION COMMISSION**  
**WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
 Supersedes C-128  
 Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator <b>Atlantic Richfield Company</b>		Lease <b>Empire Abo Unit C</b>		Well No. <b>49</b>
Unit Letter <b>L</b>	Section <b>29</b>	Township <b>17-S</b>	Range <b>29-E</b>	County <b>Eddy</b>
Actual Footage Location of Well: <b>330</b> feet from the <b>west</b> line and <b>2310</b> feet from the <b>south</b> line				
Ground Level Elev. <b>3631'</b>	Producing Formation <b>Abo Reef</b>	Pool <b>Empire Abo</b>	Dedicated Acreage: <b>40</b> Acres	

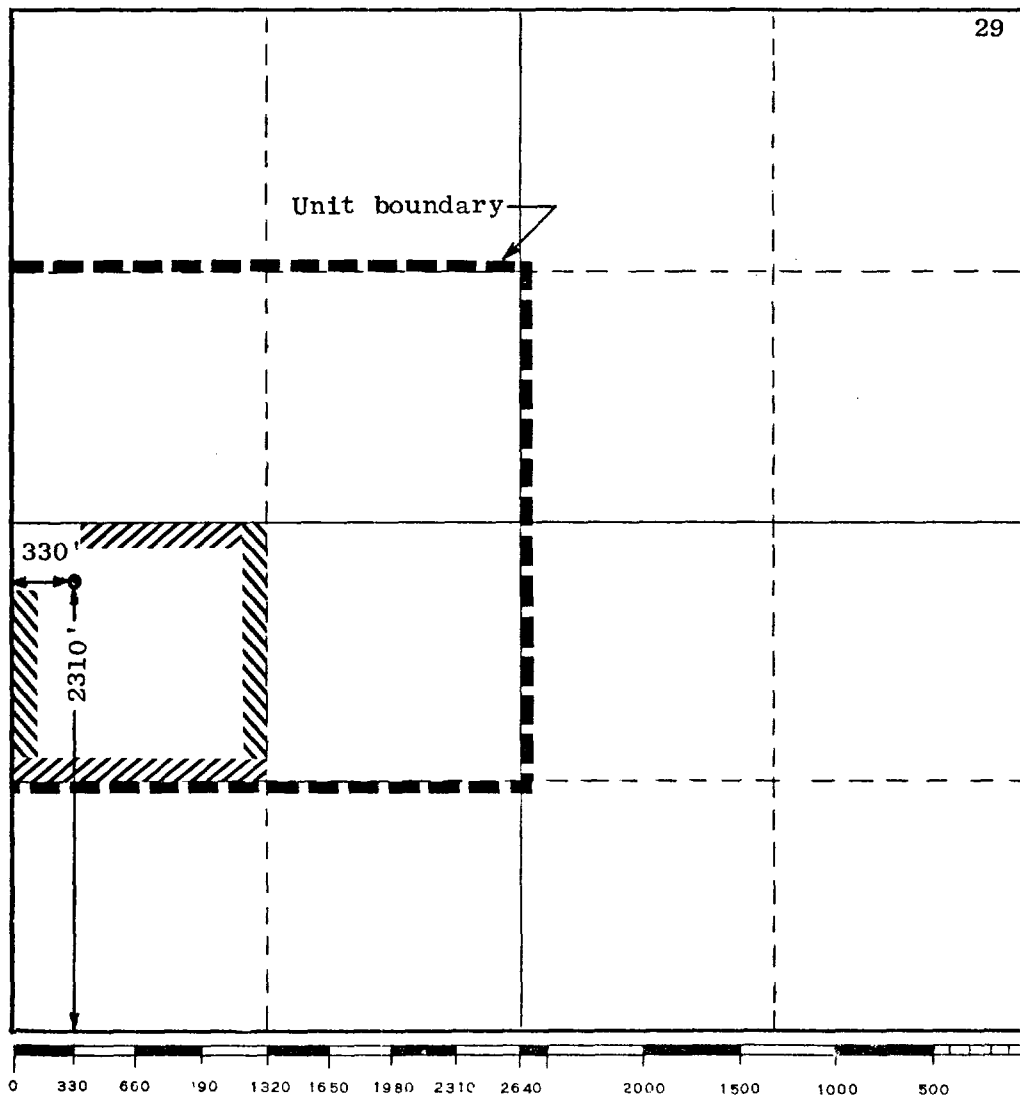
1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes    ☐ No    If answer is "yes," type of consolidation Unitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

R-29-E



**CERTIFICATION**

*I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.*

*C. R. Leggott, Jr.*

Name

**C. R. Leggott, Jr.**

Position

**District Engineer**

Company

**Atlantic Richfield Co.**

Date

**May 10, 1974**

*I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.*

Date Surveyed

Registered Professional Engineer  
 and/or Land Surveyor

Certificate No.

**EXHIBIT 5**  
**NEW MEXICO OIL CONSERVATION COMMISSION**  
**WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-192  
 Supersedes C-128  
 Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator <b>Atlantic Richfield Company</b>			Lease <b>Empire Abo Unit C</b>		Well No. <b>50</b>
Unit Letter <b>K</b>	Section <b>29</b>	Township <b>17-S</b>	Range <b>29-E</b>	County <b>Eddy</b>	
Actual Footage Location of Well: <b>2310</b> feet from the <b>south</b> line and <b>1650</b> feet from the <b>west</b> line					
Ground Level Elev. <b>3610'</b>	Producing Formation <b>Abo Reef</b>		Pool <b>Empire Abo</b>	Dedicated Acreage: <b>40</b> Acres	

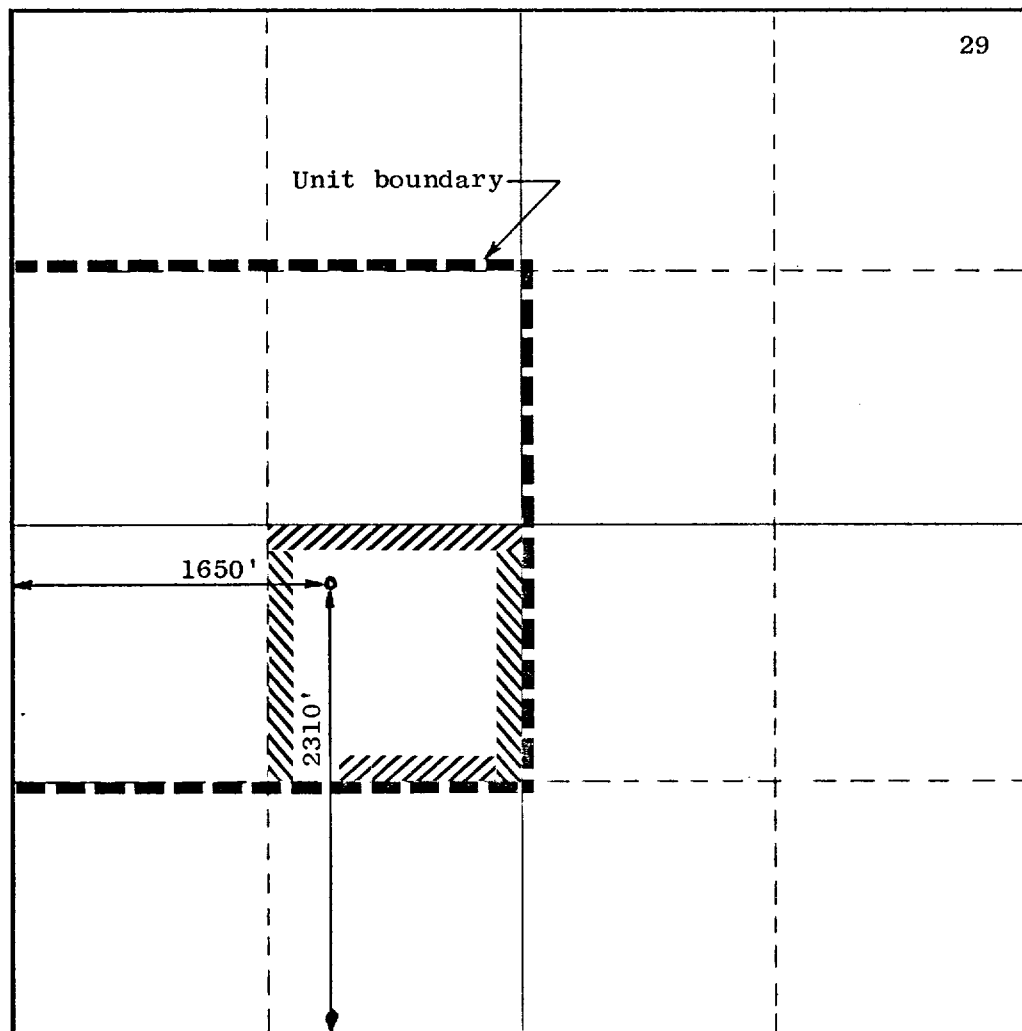
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes    ☐ No    If answer is "yes," type of consolidation Unitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

R-29-E



**CERTIFICATION**

*I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.*

*C. R. Leggott Jr*

Name

**C. R. Leggott, Jr.**

Position

**District Engineer**

Company

**Atlantic Richfield Co.**

Date

**May 10, 1974**

*I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.*

Date Surveyed

Registered Professional Engineer  
and/or Land Surveyor

Certificate No.

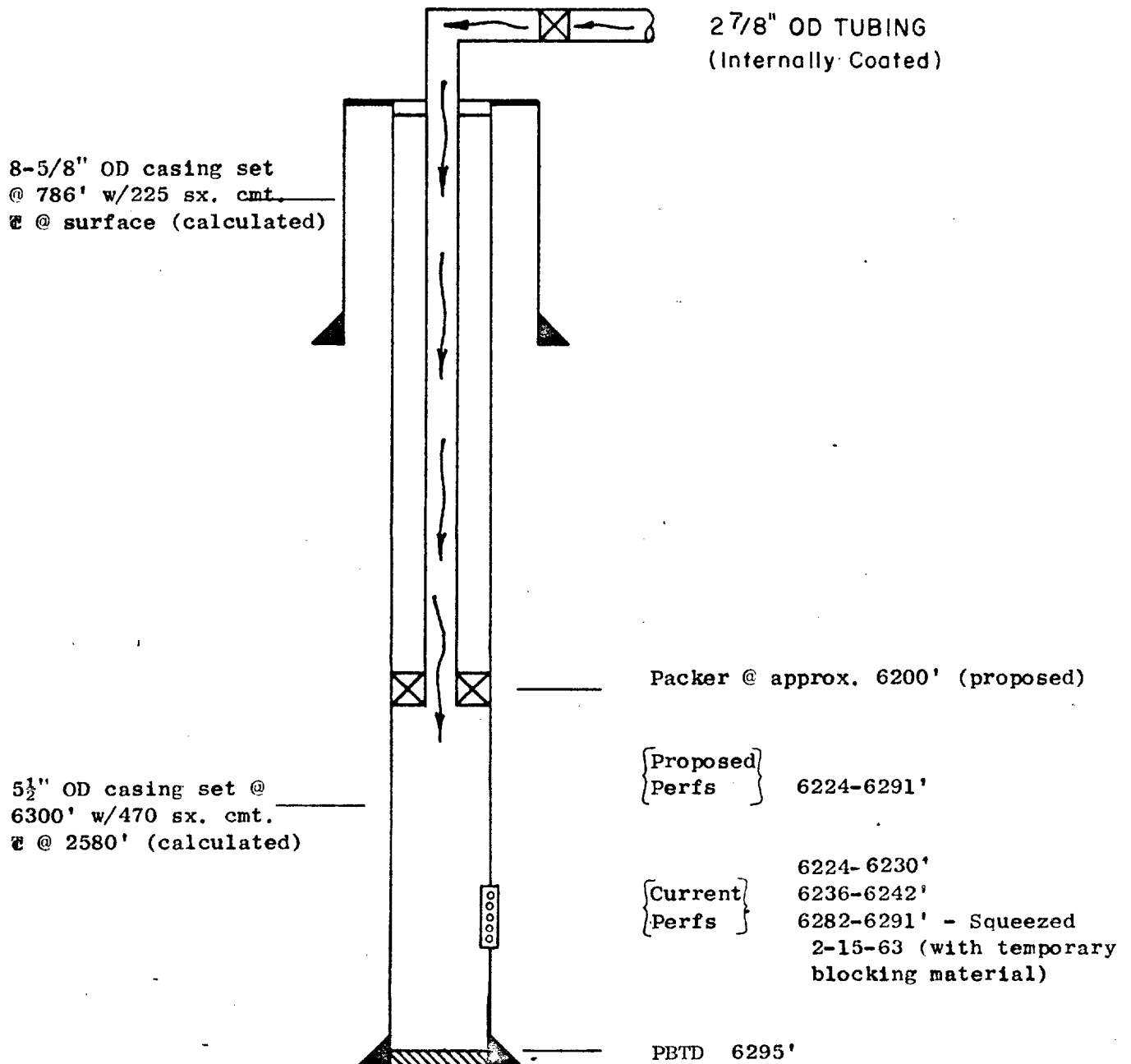
# ATLANTIC RICHFIELD COMPANY

## EMPIRE ABO UNIT B-49

FORMERLY GENERAL AMERICAN OIL COMPANY OF TEXAS GREEN A NO. 7

1980' FNL & 330' FWL OF SECTION 29, T-17-S, R-29-E N.M.P.M.

Eddy County, New Mexico





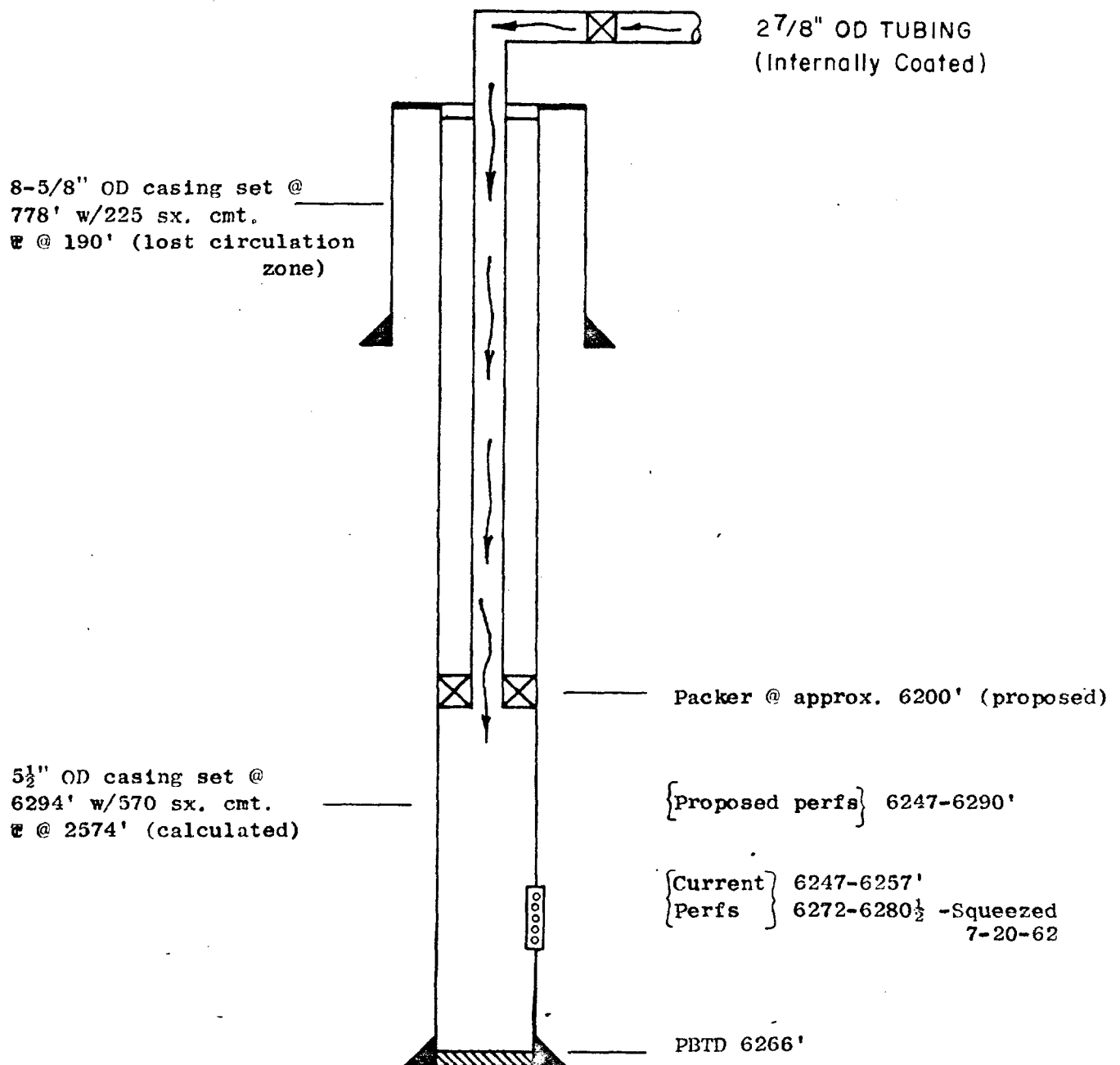
# ATLANTIC RICHFIELD COMPANY

## EMPIRE ABO UNIT C-49

FORMERLY GENERAL AMERICAN OIL COMPANY OF TEXAS GREEN A NO. 8

330' FWL & 2310' FSL OF SECTION 29, T-17-S, R-29-E N.M.P.M.

Eddy County, New Mexico



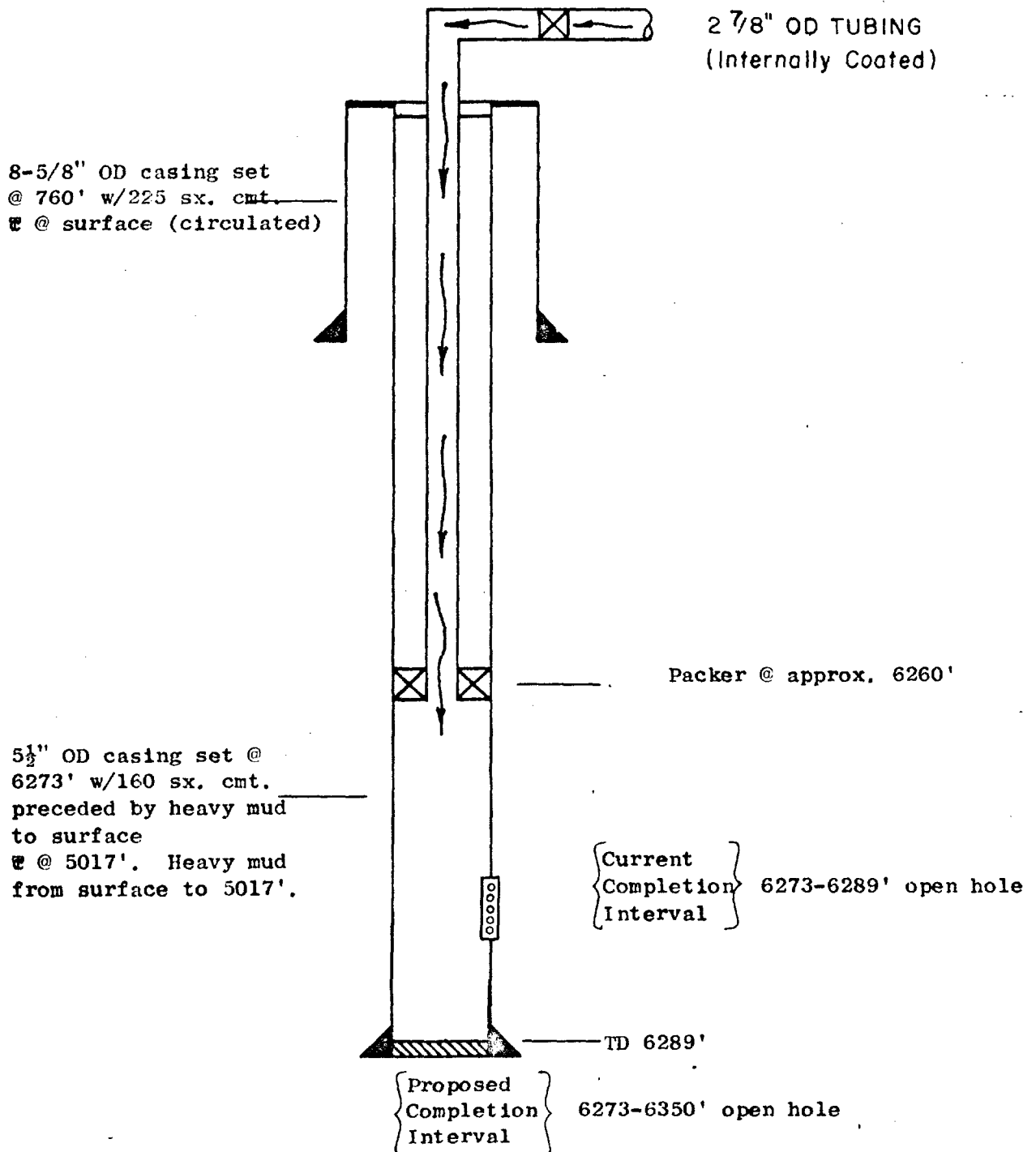
ATLANTIC RICHFIELD COMPANY

EMPIRE ABO UNIT C-50

FORMERLY GENERAL AMERICAN OIL COMPANY OF TEXAS GREEN A NO. 9

2310' FSL & 1650' FWL OF SECTION 29, T-17-S R-29-E N.M.P.M.

Eddy County, New Mexico



ATLANTIC RICHFIELD COMPANY

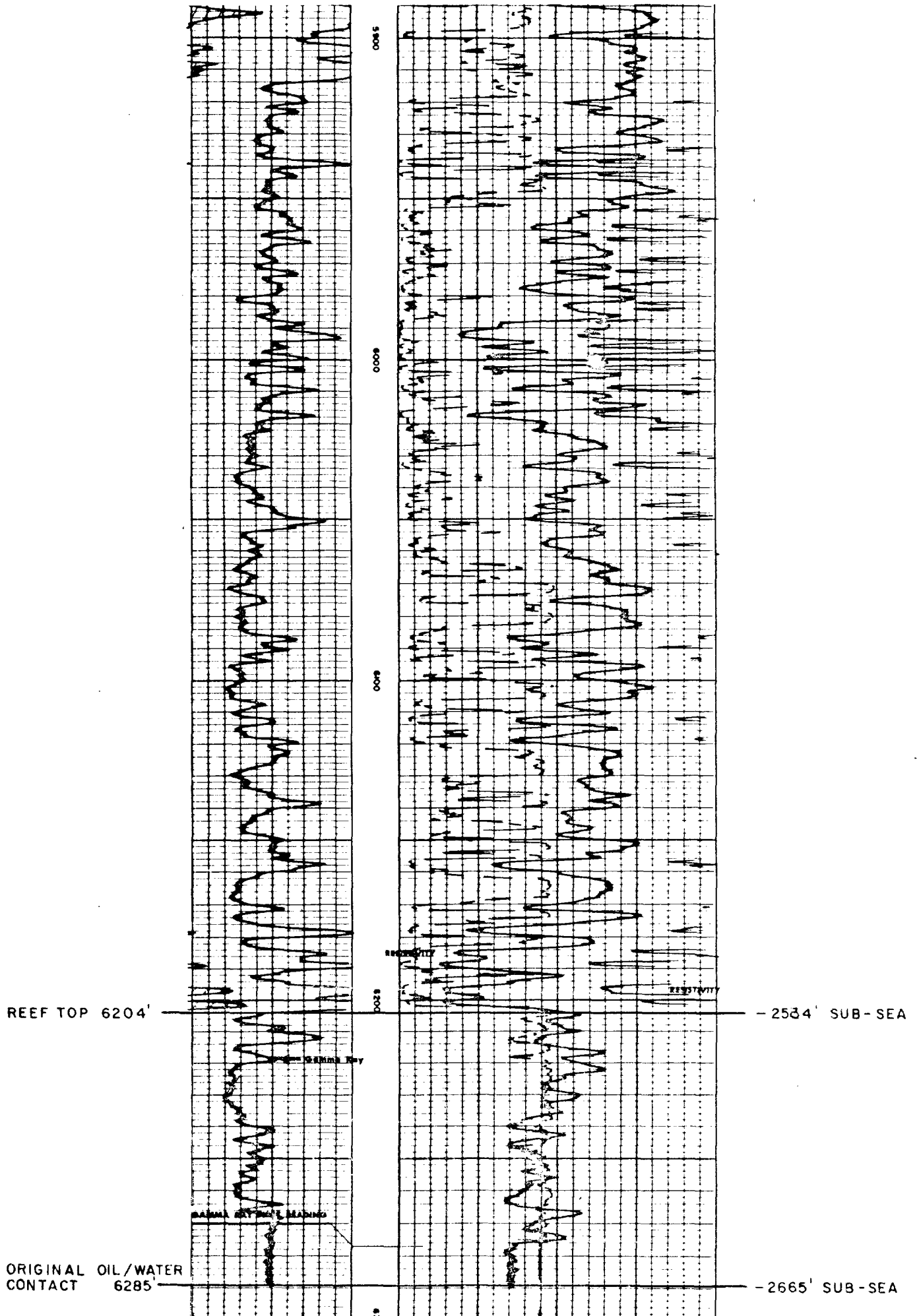
EMPIRE ABC UNIT B-49

FORMERLY GENERAL AMERICAN OIL COMPANY OF TEXAS GREEN A NO. 7

1980' FNL & 330' FWL OF SECTION 29, T-17-S, R-29-E N.M.P.M.

Eddy County, New Mexico

SCHLUMBERGER, LATEROLOG - GAMMA RAY - NEUTRON LOG



ATLANTIC RICHFIELD COMPANY

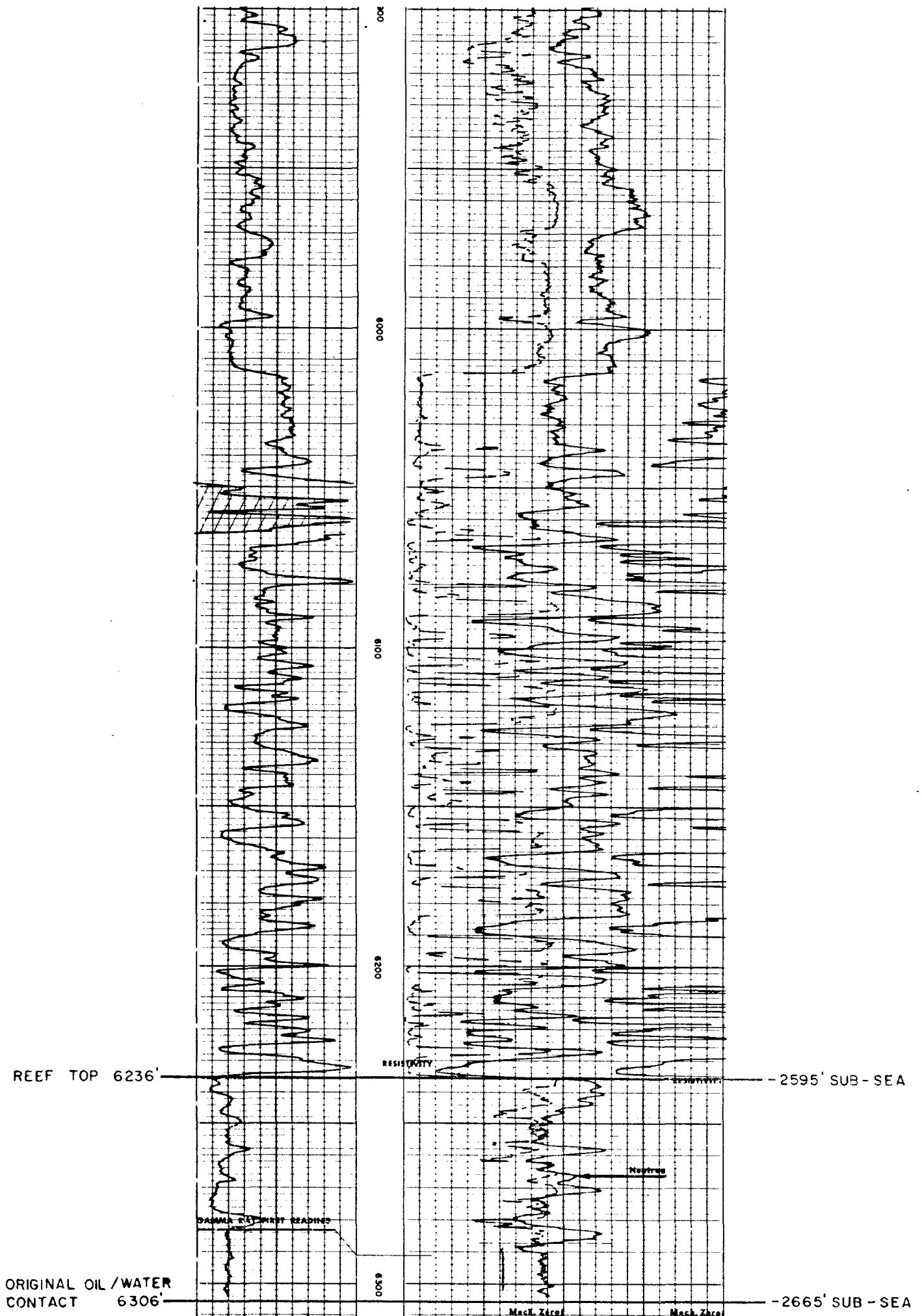
EMPIRE ABO UNIT C-49

FORMERLY GENERAL AMERICAN OIL COMPANY OF TEXAS, GREEN A NO. 8

330' FWL & 2310' FSL OF SECTION 29, T-17-S, R-29-E N.M.P.M.

Eddy County, New Mexico

SCHLUMBERGER, LATEROLOG - GAMMA RAY - NEUTRON LOG



ATLANTIC RICHFIELD COMPANY

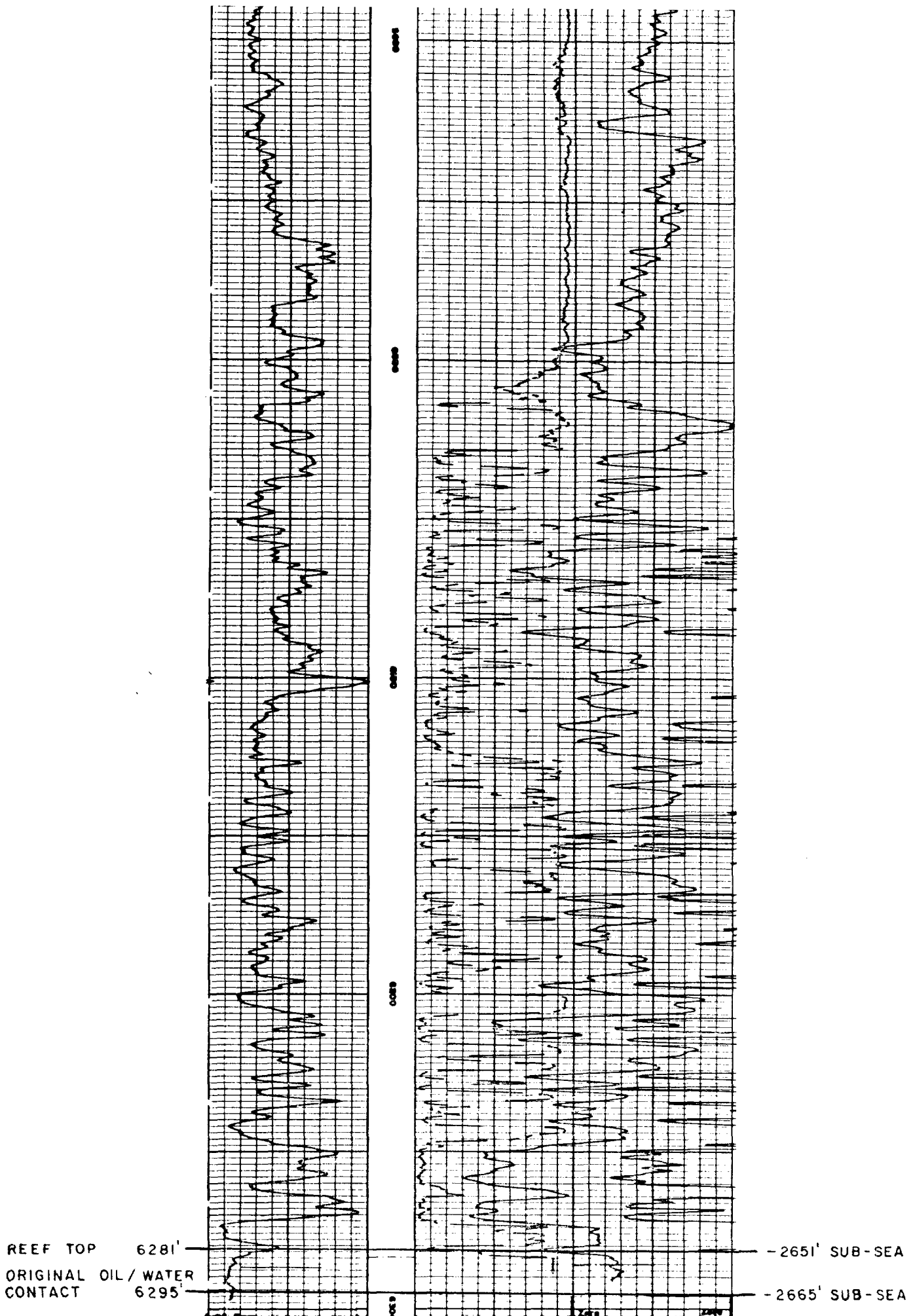
EMPIRE ABO UNIT C-50

FORMERLY GENERAL AMERICAN OIL COMPANY OF TEXAS GREEN A NO. 9

2310' FSL & 1650' FWL OF SECTION 29, T-17-S R-29-E N.M.P.M.

Eddy County, New Mexico

SCHLUMBERGER, LATEROLOG - GAMMA RAY - NEUTRON LOG



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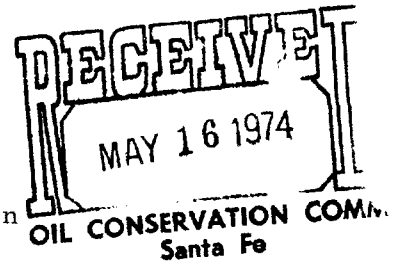
Atlantic Richfield Company

North American Producing Division  
Permian District  
Post Office Box 1610  
Midland, Texas 79701  
Telephone 915 682 8631



May 13, 1974

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



Attention: Mr. A. L. Porter, Jr.

Re: Notification of Offset Operators  
Redesignation of Unit Wells B-49, C-49, and C-50  
to Water Injection Wells  
ARCO - Empire Abo Unit Pressure  
Maintenance Project  
Eddy County, New Mexico

Gentlemen:

Atlantic Richfield Company, as operator of the Empire Abo Unit Pressure Maintenance Project, in Accordance with Order No. R-4549-B, amended Rule 14, under "Special Rules and Regulations for the Empire-Abo Pressure Maintenance Project," has notified all offset operators to Unit Wells B-49, C-49, and C-50 by copy of this application.

Attached please find a list of offset operators to Unit Wells B-49, C-49, and C-50 and the date they were notified.  
Very truly yours,

*C. R. Leggott, Jr.*  
C. R. Leggott, Jr.

GES/agp

Attachment (1)



OFFSET OPERATORS TO EMPIRE  
ABO UNIT WELLS B-49, C-49,  
AND C-50.

<u>OPERATOR</u>	<u>DATE OF NOTIFICATION</u>
1) Continental Oil Company P. O. Box 460 Hobbs, New Mexico 88240  Attn: Mr. L. P. Thompson	May 16, 1974
2) DEPCO, Inc. 1025 Petroleum Club Bldg. Denver, Colorado 80202  Attn: Mr. C. D. Crump	May 16, 1974
3) General American Oil Company of Texas Meadows Bldg. Dallas, Texas 75026  Attn: Mr. Kent Nicholson	May 16, 1974
4) Midwest Oil Corporation 1500 Wilco Bldg. Midland, Texas 79701  Attn: Mr. John Pulte	May 16, 1974
5) Tenneco Oil Corporation Suite 1200, Lincoln Tower Bldg. Denver, Colorado 80203  Attn: District Production Manager	May 16, 1974
6) Shenandoah Oil Corporation 1500 Commerce Bldg. Fort Worth, Texas 76102  Attn: Mr. Neal Toler	May 16, 1974

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

Attn: Mr. A. L. Porter, Jr.

Re: Waiver of Objection

Gentlemen:

Tenneco Oil Corporation waives objection to Atlantic Richfield Company's application for the redesignation of Empire Abo Unit Wells B-49, C-49, and C-50 as water injection wells.

TENNECO OIL CORPORATION

BY: D. A. Myers

TITLE: Division Prod. Mgr.

DATE: 5-31-74

cc: Atlantic Richfield  
P. O. Box 1610  
Midland, Texas  
Attn: Mr. C. A. Leggott

North American Producing Division  
Permian District  
Post Office Box 1610  
Midland, Texas 79701  
Telephone 915 682 8631



June 7, 1974

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

Attn: Mr. A. L. Porter, Jr.

Re: Waiver of Objection

Gentlemen:

Attached is a Waiver of Objection from Continental Oil Company, concerning our request for administrative approval for the redesignation of Empire Abo Unit Wells B-49, C-49, and C-50 to water injection wells.

Very truly yours,

  
C. R. Leggott, Jr.

GES/agp

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

Attn: Mr. A. L. Porter, Jr.

Re: Waiver of Objection

Gentlemen:

Continental Oil Company waives objection to Atlantic Richfield Company's application for the redesignation of Empire Abo Unit Wells B-49, C-49, and C-50 as water injection wells.

CONTINENTAL OIL COMPANY

BY: 

L. P. Thompson

TITLE: Division Manager

DATE: June 5, 1974

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


Attn: Mr. A. L. Porter, Jr.

Re: Waiver of Objection

Gentlemen:

Shenandoah Oil Corporation waives objection to Atlantic Richfield Company's application for the redesignation of Empire Abo Unit Wells B-49, C-49, and C-50 as water injection wells.

SHENANDOAH OIL CORPORATION

BY:   
T. P. Bates

TITLE: Vice President, Secondary Recovery

DATE: May 17, 1974

AtlanticRichfieldCompany

North American Producing Division  
Permian District  
Post Office Box 1610  
Midland, Texas 79701  
Telephone 915 682 8631



May 22, 1974

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

Attn: Mr. A. L. Porter, Jr.

Re: Waiver of Objection

Gentlemen:

Attached is a Waiver of Objection from Midwest Oil Company, concerning our request for administrative approval for the redesignation of Empire Abo Unit Wells B-49, C-49, and C-50 to water injection wells.

Very truly yours,

*C. R. Leggott, Jr.*  
C. R. Leggott, Jr.

GES/agp

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

Attn: Mr. A. L. Porter, Jr.

Re: Waiver of Objection

Gentlemen:

Midwest Oil Corporation waives objection to Atlantic Richfield Company's application for the redesignation of Empire Abo Unit Wells B-49, C-49, and C-50 as water injection wells.

MIDWEST OIL CORPORATION

BY: John R. White

TITLE: Dist. Prod. Mgr.

DATE: 5-20-74

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

Attn: Mr. A. L. Porter, Jr.

Re: Waiver of Objection

Gentlemen:

DEPCO, Inc. waives objection to Atlantic Richfield  
Company's application for the redesignation of Empire  
Abo Unit Wells B-49, C-49, and C-50 as water injection  
wells.

DEPCO, INC.

BY: C.D. Crump

TITLE: VP-Production

DATE: 5-23-74



# **GENERAL AMERICAN OIL COMPANY OF TEXAS**

MEADOWS BUILDING  
**DALLAS, TEXAS 75206**

May 22, 1974

74-265

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

Attention Mr. A. L. Porter, Jr.

Gentlemen:

Re: Redesignation of Empire Abo  
Unit Wells B-49, C-49, and  
C-50 to WIW's  
Arco-Empire Abo Unit Pres-  
sure Maintenance Project  
Eddy County, New Mexico

Attached is General American's waiver of objection to  
Atlantic Richfield Company's application for the redesignation  
of the subject wells.

Very truly yours,



H. Kent Nicholson  
Supervisor, Joint Operations

HKN:sp

Enclosure

cc: Atlantic Richfield Company  
P. O. Box 1610  
Midland, Texas 79701  
Attention Mr. C. R. Leggott, Jr.

Mr. Roy L. Crow - w/Enclosures  
Mr. D. C. Apeland - w/Enclosures

File (2) C-1, PLW-1

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

Attn: Mr. A. L. Porter, Jr.

Re: Waiver of Objection

Gentlemen:

General American Oil Company of Texas waives objection to Atlantic Richfield Company's application for the redesignation of Empire Abo Unit Wells B-49, C-49, and C-50 as water injection wells.

GENERAL AMERICAN OIL COMPANY OF TEXAS

BY:

J. A. Porter 38

TITLE:

Vice Pres

DATE:

5-20-74