

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



October 22, 1976

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

OCT 25 1976
CONSERVATION COMM.
Santa Fe

NSL-802

Attn: Mr. Joe Ramey

Re: Request for Non-Standard Drilling Locations
Within the Project Area of the
ARCO-Empire Abo Unit Pressure Maintenance Project,
Eddy County, New Mexico

3 wells

Rule 14 R-4549-B

due Nov 14

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, Rule 14, under "Special Rules and Regulations for the Empire Abo Pressure Maintenance Project," for the drilling of 3 Unit wells at non-standard locations (locations shown on attached exhibit).

The proposed drilling of the subject wells at the non-standard locations meet all requirements of Order R-4549-B, 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."

The proposed drilling of the wells will be necessary to complete a more efficient producing pattern to conserve reservoir energy, promote the greatest ultimate recovery of Unit reserves, prevent waste, and protect correlative rights.

Very truly yours,

ATLANTIC RICHFIELD COMPANY

J. L. Tweed

J. L. Tweed
District Engineer

See next page for well locations

REH/agp

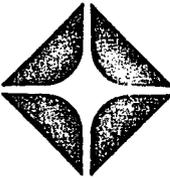
ATLANTIC RICHFIELD COMPANY
Empire Abo Unit
Proposed Non-Standard Locations
Eddy County, New Mexico

<u>WELL NAME AND NUMBER</u>	<u>LOCATION</u>
Empire Abo Unit F-332	2581.95' FNL & 150' FWL, Sec. 34, T-17S, R-28E
Empire Abo Unit F-361	1765' FNL & 1270' FEL, Sec. 34, T-17S, R-28E
Empire Abo Unit G-342	2400' FSL & 2080' FWL, Sec. 34, T-17S, R-28E

Atlantic Richfield Company

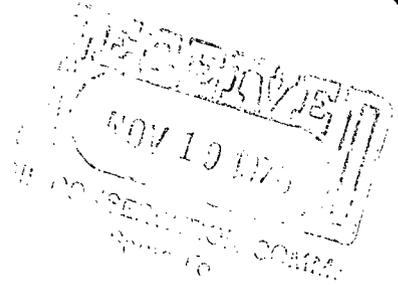
North American Producing Division
Permian District
Post Office Box 1610
Midland, Texas 79701
Telephone 915 682 8631

10/22 NSL-802



November 15, 1976

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



Attn: Mr. J. D. Ramey

Re: Correction of Typical Well Diagram
Infill Drilling Program
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 informs you of a correction to be made to the proposed producing well diagram that was included in previous drilling requests.

The diagrams that were used were for injection wells and not producing wells. The 2-3/8" OD tubing is not internally coated due to the frequency of cutting paraffin in Unit wells.

Enclosed is the list of infill wells that were requested with an incorrect proposed producing well diagram and a schematic of the correct proposed producing well diagram.

Very truly yours,

J. L. Tweed

REH/agp

cc: Mr. W. A. Gressett
N. M. O. C. C.
Artesia, New Mexico

ATLANTIC RICHFIELD COMPANY
EMPIRE ABO UNIT
Proposed Non-Standard Locations
Eddy County, New Mexico

Phase III, Part B

SUBMITTED 11/3/76

Well Name & Number	Location		G.L. Elev.
Empire Abo Unit			
E-372	100' FNL & 1291.14' FWL	Sec. 35, T-17S, R-28E	3681.1'
E-401	90' FNL & 1296' FEL	Sec. 35, T-17S, R-28E	3669.1'
F-372	2490' FNL & 1100' FWL	Sec. 35, T-17S, R-28E	3676.8'
F-381	1900' FNL & 2260' FWL	Sec. 35, T-17S, R-28E	3679.0'
G-351	1850' FSL & 1650' FEL	Sec. 34, T-17S, R-28E	3663.2'
H-272	2481' FEL & 330' FSL	Sec. 32, T-17S, R-28E	3661.4'
H-292	1225' FWL & 180' FSL	Sec. 33, T-17S, R-28E	3665.7'
H-293	1248.88' FSL & 50' FWL	Sec. 33, T-17S, R-28E	3671.4'
H-311	2490' FEL & 313' FSL	Sec. 33, T-17S, R-28E	3661.4'
I-281	450' FEL & 700' FNL	Sec. 5, T-18S, R-28E	3659.8'
J-222	1350' FNL & 1572' FWL	Sec. 6, T-18S, R-28E	3656.7'
K-141	1370' FSL & 2445' FWL	Sec. 2, T-18S, R-27E	3521.0'
K-183	2370' FSL & 1510' FWL	Sec. 1, T-18S, R-27E	3694.0'
L-112	1186' FSL & 1372' FEL	Sec. 3, T-18S, R-27E	3516.7'
L-121	1186' FSL & 200' FEL	Sec. 3, T-18S, R-27E	3509.3'
L-153	90' FSL & 1456' FEL	Sec. 2, T-18S, R-27E	3585.0'
M-91	1300' FNL & 1220' FWL	Sec. 10, T-18S, R-27E	3507.7'
M-101	1100' FNL & 2170' FWL	Sec. 10, T-18S, R-27E	3506.8'
M-122	990' FNL & 1300' FEL	Sec. 10, T-18S, R-27E	3499.9'
N-91	2390' FNL & 940' FWL	Sec. 10, T-18S, R-27E	3596.3'

ATLANTIC RICHFIELD COMPANY
Empire Abo Unit
Proposed Non-Standard Locations
Eddy County, New Mexico

SUBMITTED 10/22/76

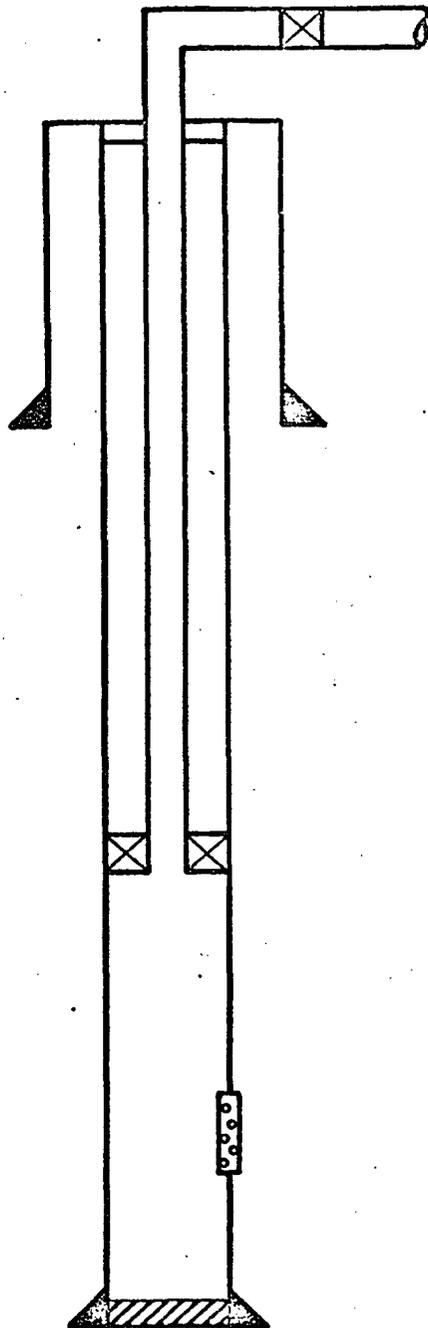
<u>WELL NAME AND NUMBER</u>	<u>LOCATION</u>
Empire Abo Unit F-332	2581.95' FNL & 150' FWL, Sec. 34, T-17S, R-28E
Empire Abo Unit F-361	1765' FNL & 1270' FEL, Sec. 34, T-17S, R-28E
Empire Abo Unit G-342	2400' FSL & 2080' FWL, Sec. 34, T-17S, R-28E

SUBMITTED 7/2/76

Empire Abo Unit K-191	1470' FEL & 1526' FSL, Sec. 1, T-18S, R-27E
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PROPOSED PRODUCING WELL DIAGRAM

Corrected Schematic



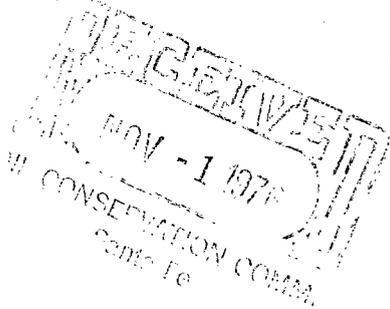
2 3/8" OD TUBING
(no internal coating)

OIL CONSERVATION COMMISSION
Artesia DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE 10-29-76

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL X _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____



Gentlemen:

I have examined the application dated 10-22-76
for the Atlantic Richfield Co. See below
Operator Lease and Well No. Unit, S-T-R

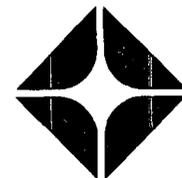
and my recommendations are as follows:

<u>Empire Abolunit</u>	<u>F * 332</u>	<u>2581.95' N - 150W</u>	<u>34-17-28</u>
<u>" " "</u>	<u>F * 361</u>	<u>1765 N - 1270E</u>	<u>34-17-28</u>
<u>" " "</u>	<u>G * 342</u>	<u>2400S - 2080W</u>	<u>34-17-28</u>

Approval.

Yours very truly,

W. A. Grassett



October 22, 1976

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

Attn: Joe D. Ramey

Re: Notification of Offset Operators to
Proposed Non-Standard Drilling Locations
Within the Project Area of the
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, Rule 14 (3), under "Special Rules and Regulations for the Empire Abo Pressure Maintenance Project," has notified all offset operators of the proposed non-standard locations with a complete application.

Attached you will find a list of the offset operators to the proposed non-standard locations and the date that they were notified.

Very truly yours,

ATLANTIC RICHFIELD COMPANY

J. L. Tweed
District Engineer

REH/agp

OFFSET OPERATORS TO THE PROPOSED NON-STANDARD
DRILLING LOCATIONS WITHIN THE PROJECT
AREA OF THE ARCO-EMPIRE ABO UNIT
PRESSURE MAINTENANCE PROJECT

<u>OPERATOR</u>	<u>DATE OF NOTIFICATION</u>
1) DEPCO, Inc. 800 Central Odessa, Texas 79761	October 22, 1976
2) C. E. LaRue & B. N. Muncy, Jr. P. O. Box 196 Artesia, New Mexico 88210	October 22, 1976
3) C. O. Fulton P. O. Box 1121 Artesia, New Mexico 88210	October 22, 1976
4) Herman Ledbetter 874 Amarillo Abilene, Texas 79602	October 22, 1976
5) J. B. Adamson P. O. Box 727 Artesia, New Mexico 88210	October 22, 1976
6) American Petrofina Company of Texas P. O. Box 1311 Big Spring, Texas	October 22, 1976
7) Brunham and Company P. O. Box 257 Artesia, New Mexico 88210	October 22, 1976
8) Franklin, Aston and Fair, Inc. P. O. Box 1090 Roswell, New Mexico 88201	October 22, 1976
9) Kincaid & Watson Drlg. Co. P. O. Box 498 300 Booker Bldg. Artesia, New Mexico 88210	October 22, 1976
10) William E. Jeffers P. O. Box 65 Artesia, New Mexico 88210	October 22, 1976
11) B & D Oil Company P. O. Box 804 Hobbs, New Mexico	October 22, 1976
12) Yates Drilling Company 207 South Fourth Artesia, New Mexico 88210	October 22, 1976
13) Marbob Energy Corporation Artesia, New Mexico 88210	October 22, 1976

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-12A
Effective 1-1-65

All distances must be from the outer boundaries of the Section

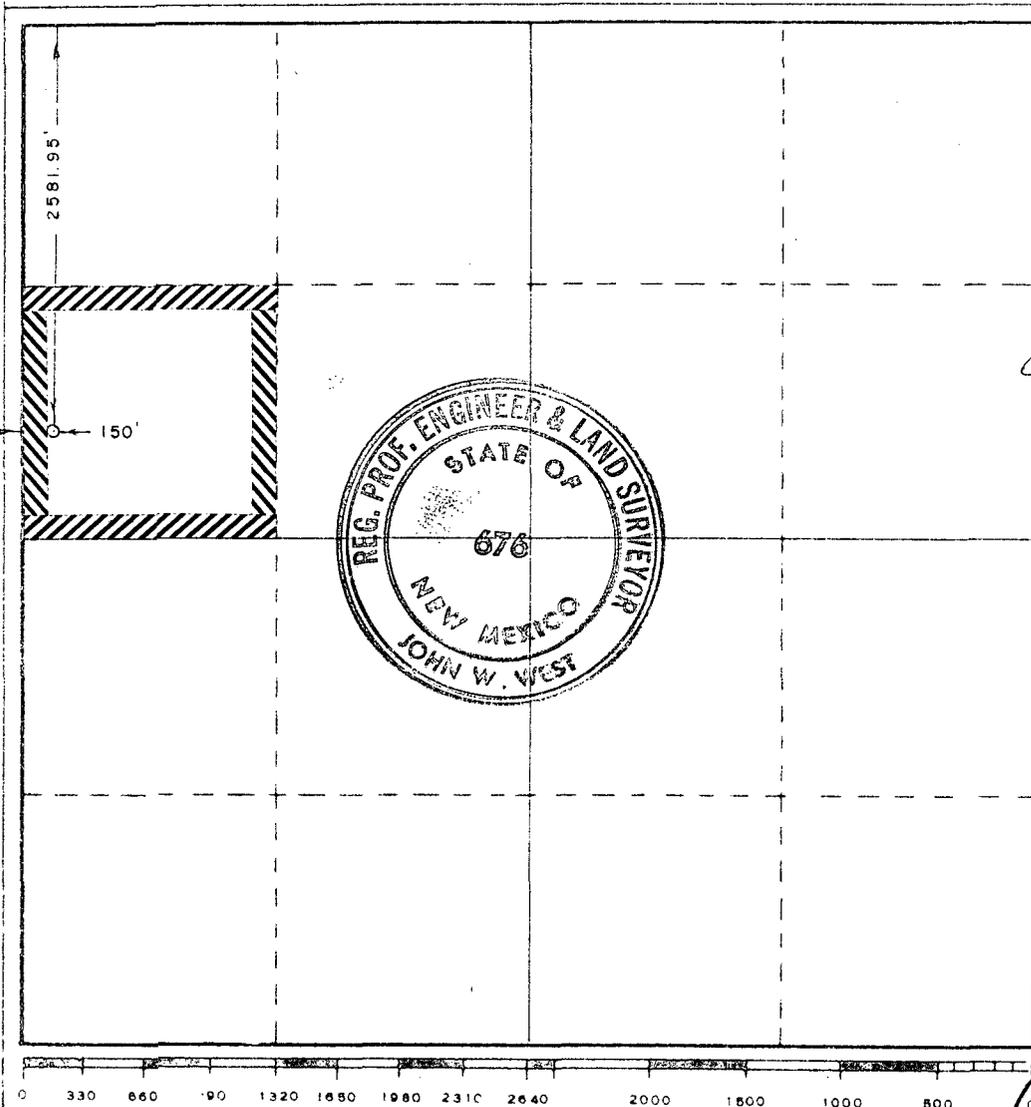
Operator ATLANTIC RICHFIELD COMPANY		Lease Empire Abo Unit			Well # F-332
Unit Letter E	Section 34	Township 17 South	Range 28 East	County Eddy	
Actual Footage Location of Well: 2581.95 feet from the north line and 150 feet from the west line					
Ground Level Elev. 3668.2	Producing Formation Abo Reef	Pool Empire Abo		Dedicated Acreage: 40 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.



CERTIFICATION

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

Name _____
 Position _____
Dist. Brlg. Supv.
 Company
Atlantic Richfield Company
 Date
10/5/76

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
Oct. 1, 1976
 Registered Professional Engineer
 and/or Land Surveyor

John W. West
 Certificate No. **676**

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

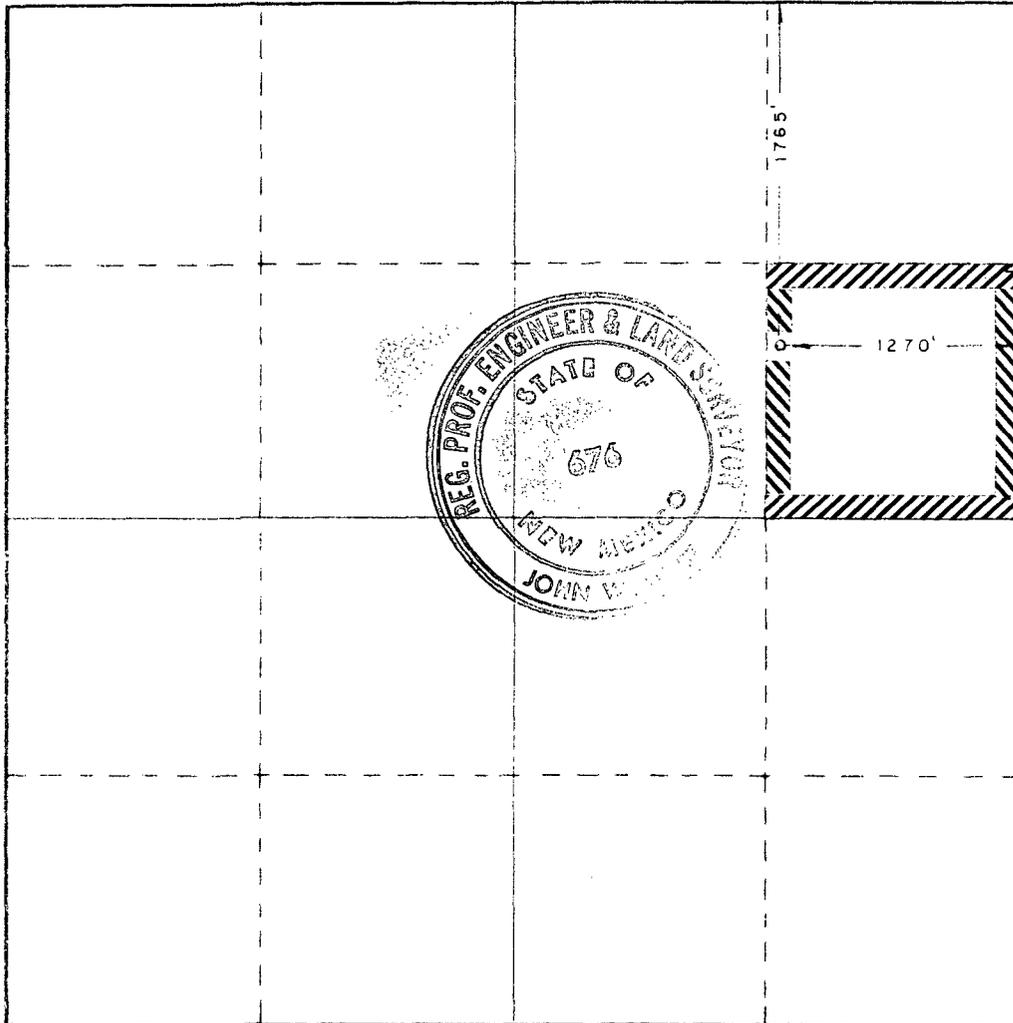
Operator ATLANTIC RICHFIELD COMPANY		Lease Empire Abo Unit		Well No. F-361
Grid Letter H	Section 34	Township 17 South	Range 28 East	County Eddy
Actual Footage Location of Well: 1765 feet from the north line and 1270 feet from the east line				
Ground Level Elev. 3668.2	Producing Formation Abo Reef	Pool Empire Abo	Dedicated Acreage 40 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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.



CERTIFICATION

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

Name: *[Signature]*
 Position: **Dist. Drlg. Supv.**
 Company: **Atlantic Richfield Company**
 Date: **10/5/76**

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: **Oct. 1, 1976**
 Registered Professional Engineer and/or Land Surveyor

[Signature]
 Certificate No. **676**



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.

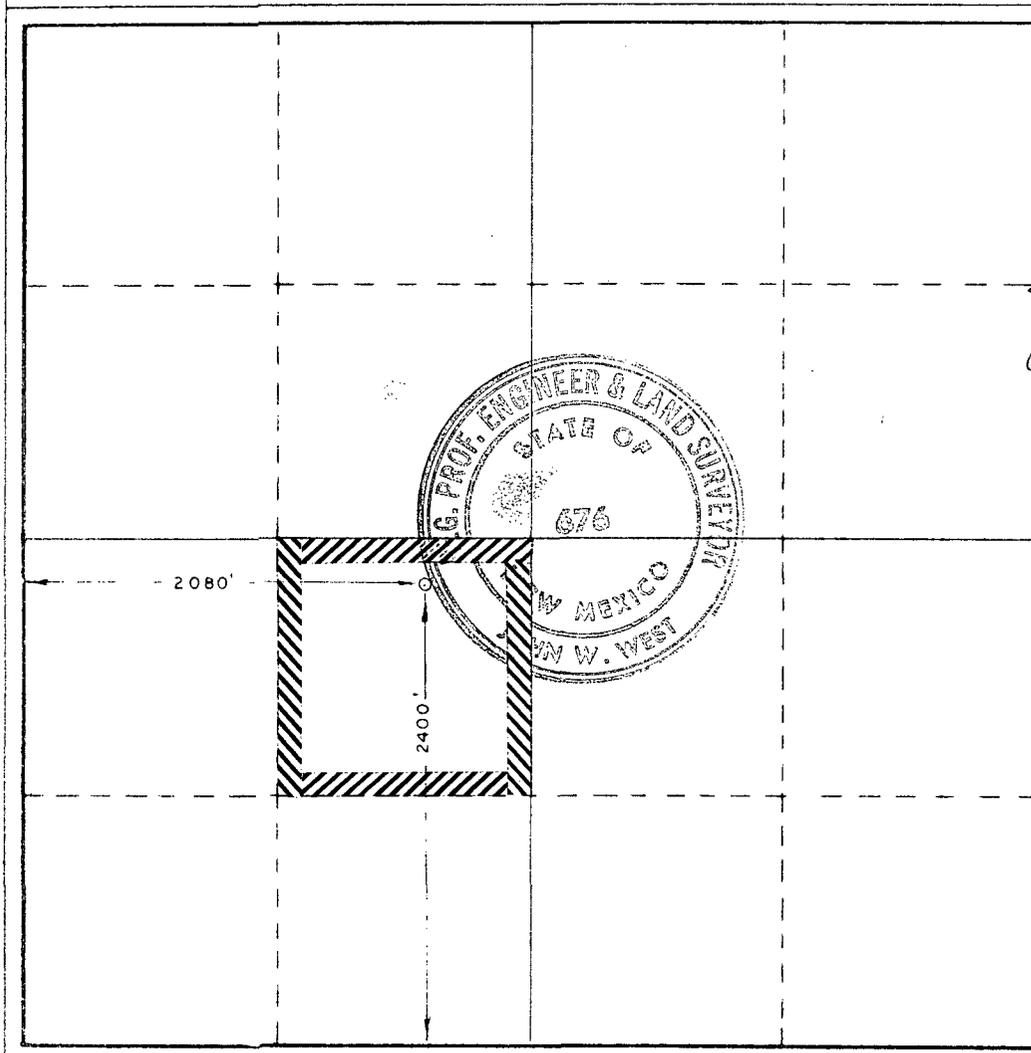
Operator ATLANTIC RICHFIELD COMPANY			Lease Empire Abo Unit		Well No. G-342
Unit Letter K	Section 34	Township 17 South	Range 28 East	County Eddy	
Actual Footage Location of Well: 2400 feet from the south line and 2080 feet from the west line					
Ground Level Elev. 3667.6	Producing Formation Abo Reef		Pool Empire Abo	Dedicated Acreage: 40 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.



CERTIFICATION

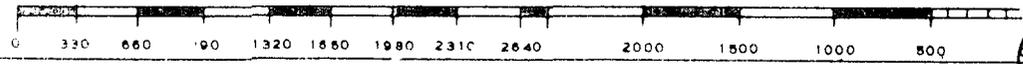
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name _____
 Position _____
Dist. Drlg. Supv.
 Company
Atlantic Richfield Company
 Date
10/5/76

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
Oct. 1, 1976
 Registered Professional Engineer
 and/or Land Surveyor

John W. West
 Certificate No. **676**

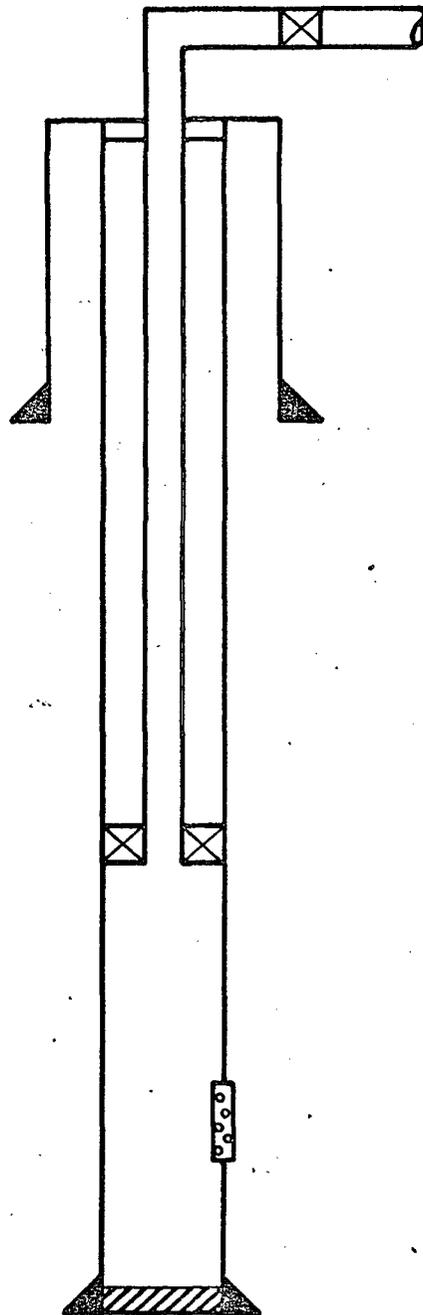


PROPOSED PRODUCING WELL DIAGRAM

ATLANTIC RICHFIELD COMPANY
Empire Abo Unit Well F-332
2581.95' FNL & 150' FWL, Section 34, T-17S, R-28E
Eddy County, New Mexico

8-5/8" OD casing
set @ 750'
(cement circulated)

5-1/2" OD casing
set @ 6360'
(cement circulated)



2 3/8" OD TUBING
(INTERNALLY COATED)

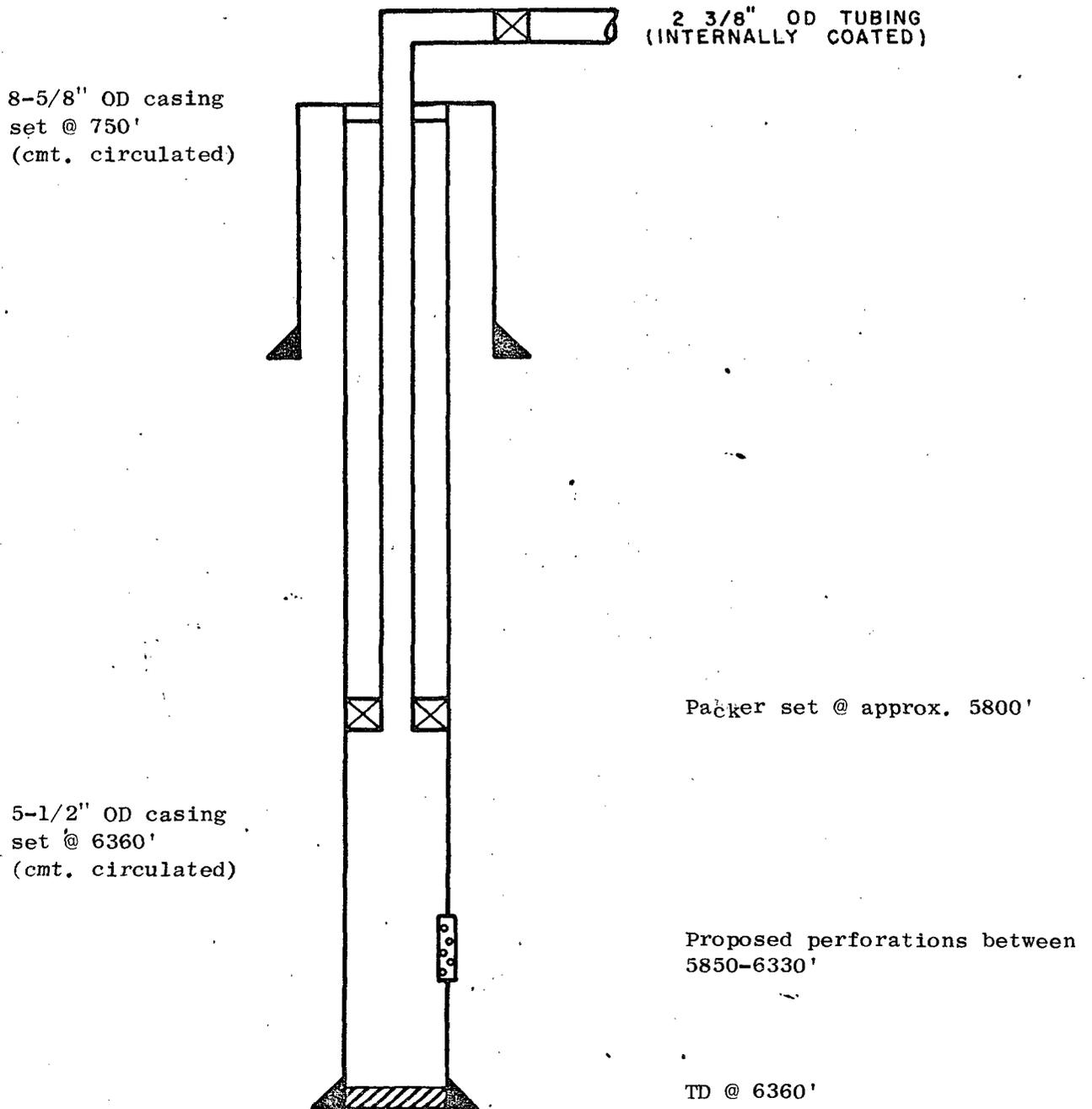
Packer set @ approx. 5800'

Proposed perforations
between 5850-6330'

TD @ 6360'

PROPOSED PRODUCING WELL DIAGRAM

ATLANTIC RICHFIELD COMPANY
Empire Abo Unit Well F-361
1765' FNL & 1270' FEL, Sec. 34, T-17S, R-28E
Eddy County, New Mexico



PROPOSED PRODUCING WELL DIAGRAM

ATLANTIC RICHFIELD COMPANY
Empire Abo Unit Well G-342
2400' FSL & 2080' FWL, Section 34, T-17S, R-28E
Eddy County, New Mexico

