

Case No. 12215

~~12215~~



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

GOVERNOR

6/1/99

POST OFFICE BOX 1980  
HOBBS, NEW MEXICO 88241-1980  
(505) 393-6161

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC \_\_\_\_\_  
DHC \_\_\_\_\_ X \_\_\_\_\_  
NSL \_\_\_\_\_  
NSP \_\_\_\_\_  
SWD \_\_\_\_\_  
WFX \_\_\_\_\_  
PMX \_\_\_\_\_

Gentlemen:

I have examined the application for the:

Anadarko Petroleum Corp EW Walden # 12-F-15-225-37e  
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK-

Yours very truly,

*Chris Williams*

Chris Williams  
Supervisor, District 1

/ed

DHC 6/17/99  
OIL CONSERVATION DIV.

SO MAY 26 PM 17  
**Anadarko**

May 19, 1999

David Catanach  
New Mexico Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, NM 87505-6429

12215

Re: ~~Surface~~ *downhole* Commingling  
E.W. Walden Lease  
Lea County, New Mexico

Dear Mr. Catanach:

Anadarko (OGRID 000817) requests administrative approval for an exception to Rule 303-A to permit downhole commingling of the Grayburg and San Andres oil-oil zones in the wellbore of E.W. Walden #12. The well is located in Section 15 – T22S- R37E in Lea County, New Mexico. Exhibit 1 is a map of the EW Walden lease. This lease currently has 8 active producers in the Grayburg formation.

The EW Walden #12 is currently producing in the Grayburg at a rate of 1 BOPD, 2 BWPD and 23 MCFPD. This well is currently at its economic limit and if the commingling is approved, additional reserves could be recovered from the Grayburg formation. The San Andres was perforated and tested briefly in 1982 at a rate of about 25 BOPD. If this application is approved both zones will be turned together and placed on sucker rod pump.

In the wellbore, the Grayburg zone is perforated from 3640-3843' and the San Andres zone is perforated from 3899-3976'. The current producing BHP is 120 psi for the Grayburg interval (based on fluid level analysis) and the BHP for the San Andres is 880 psi (based on Lou Wortham C#2 offset analogy). The pressure difference should not be a problem as we will attempt to keep both zones in the "pumped off" condition in the wellbore. In the event that crossflow should occur, the waters are compatible (attached water analysis) and combining the fluids should not result in the formation of formation damaging precipitates.

Based on the latest test in the Grayburg (4/99) and the last test in the San Andres (8/82) in this well, the well should initially produce 25-30 BOPD, 350 MCFPD and 250 BWPD. This combined rate was developed by using the allocation of 96.5% for the San Andres and 3.5 % for the Grayburg. These allocation factors were developed based on current and past production. A current production plot is included for the Grayburg interval as well as the brief production history for the San Andres interval.

At present the well is not involved in a secondary recovery project. If a future secondary recovery project were to be considered we foresee no problems with this commingling prospect jeopardizing the efficiency of a secondary project.

If commingling is approved, Anadarko Petroleum Corporation, will be the operator of the said well located 2250' FNL & 1350' FWL, Sec 15, T22S, R37E, Lea County, New Mexico, Penrose Skelly Grayburg and Southwest Eunice San Andres. All working, overriding, and royalty interests are the same in the two commingled zones.

Surface Commingling  
E.W. Walden Lease  
May 19, 1999  
Page 2 of 2

All offset operators have been notified of the proposed commingling by a copy of this letter. If you have any questions regarding this proposed action, please feel free to contact me at (915) 683-0559.

Sincerely,

A handwritten signature in black ink that reads "Richard Lauderdale". The script is cursive and fluid.

Richard Lauderdale  
Production Engineer

Attachments

cc: NMOCD - District I (Hobbs)  
REL/Harold/Well File  
Offset Operators (see attached list)

**ANADARKO PETROLEUM CORPORATION**  
**Offset Operators List**  
**E.W. Walden Lease**  
**Lea County, New Mexico**

Collins & Ware, Inc.  
Empire Plz.  
508 W. Wall, Ste. 1200  
Midland, Texas 79701-5076

Chevron U.S.A. Production Company  
Box 1635  
1301 McKinney  
Houston, Texas 77251

Conoco, Inc.  
10 Desta Dr., Ste. 100W  
Midland, Texas 79705-4500

John H. hendrix  
Box 3040  
110 N. Marienfeld, Ste. 400  
Midland, Texas 79701

ICA Energy, Inc.  
Box 233  
Odessa, Texas 79760-0233

Oryx Energy Co.  
13155 Noel Rd.  
Dallas, Texas 75221-2880

Wagner & Brown, LTD.  
Box 1714  
300 N. Marienfeld, Ste. 1100  
Midland, Texas 79702

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240  
DISTRICT II  
811 South First St., Artesia, NM 88210  
DISTRICT III  
1000 Rio Brazos Rd, Aztec, NM 87410  
DISTRICT IV  
2040 S. Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco  
Santa Fe, New Mexico 87505-6429

Form C-107-A  
Revised March 17, 1999

APPROVAL PROCESS:

Administrative Hearing

EXISTING WELLBORE

YES NO

APPLICATION FOR DOWNHOLE COMMINGLING

ANADARKO PETROLEUM CORPORATION

P O BOX 2497

MIDLAND TX 79702

Operator

Address

E.W. WALDEN

12

F - SEC 15-T22S-R37E

LEA

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 000817

Property Code 001414

API No. 30-025-27756

Federal State (and/or) Fee X

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	PENROSE SKELLY GRAYBURG 50350		EUNICE; SAN ANDRES, SOUTHWEST 24180
2. Top and Bottom of Pay Section (Perforations)	3640-3843		3899-3976
3. Type of production (Oil or Gas)	OIL		OIL
4. Method of Production (Flowing or Artificial Lift)	ARTIFICIAL LIFT		ARTIFICIAL LIFT
5. Bottomhole Pressure Oil Zones - Artificial Lift: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current Estimated Or Measured Original	a. (Current) 120 BHP b. (Original)	a. b.	a. b. FROM LOU WORTHAM C#2 ANALOGY (ATTACHED) 880 PSI
6. Oil Gravity (EAPI) or Gas BTU Content	35.0° API		37.1° API
7. Producing or Shut-In?	PRODUCING		SI
Production Marginal? (yes or no)	YES		YES, IN OFFSETTING LSES
* If Shut-In, give date and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data * If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: Rates: Date: 4/20/99 Rates: 1 BOPD, 23 MCFPD, 2 BWPD	Date: Rates: Date: Rates:	Date: 08/82 Rates: 27 BOPD, 245 BWPD 330 MCFPD Date: Rates:
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: 3.5 % Gas: 6.5 %	Oil: % Gas: %	Oil: 96.5 % Gas: 93.5 %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? X Yes No  
If not, have all working, overriding, and royalty interests been notified by certified mail? Yes No  
Have all offset operators been given written notice of the proposed downhole commingling? X Yes No

11. Will cross-flow occur? Yes X No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. Yes No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other? X Yes No

13. Will the value of production be decreased by commingling? Yes X No (If Yes, attach explanation)

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. Yes No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S).

16. ATTACHMENTS:

- \* C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- \* Production curve for each zone for at least one year. (If not available, attach explanation.)
- \* For zones with no production history, estimated production rates and supporting data.
- \* Data to support allocation method or formula.
- \* Notification list of all offset operators.
- \* Notification list of working, overriding, and royalty interests for uncommon interest cases.
- \* Any additional statements, data, or documents required to support commingling.

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

SIGNATURE Richard Lauderdale TITLE Production Engineer DATE 5/19/99

TYPE OR PRINT NAME RICHARD LAUDERDALE TELEPHONE NO. (915)683-0559

**DISTRICT I**  
1625 N. French Dr., Hobbs, NM 88240  
**DISTRICT II**  
811 South First St., Artesia, NM 88210  
**DISTRICT III**  
1000 Rio Brazos Rd, Aztec, NM 87410  
**DISTRICT IV**  
2040 S. Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco  
Santa Fe, New Mexico 87505-6429

APPLICATION FOR DOWNHOLE COMMINGLING

Form C-107-A  
Revised March 17, 1999

APPROVAL PROCESS:

☐ Administrative ☐ Hearing

EXISTING WELLBORE

☐ YES ☐ NO

ANADARKO PETROLEUM CORPORATION		P O BOX 2497		MIDLAND TX 79702	
Operator		Address			
E.W. WALDEN		12		F - SEC 15-T22S-R37E	
Lease		Well No.		Unit Ltr. - Sec - Twp - Rge	
				LEA	
				County	
Spacing Unit Lease Types: (check 1 or more)					
OGRID NO.	000817	Property Code	001414	API No.	30-025-27756
			Federal	State	(and/or) Fee X

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	PENROSE SKELLY GRAYBURG 50350		EUNICE; SAN ANDRES, SOUTHWEST 24180
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3. Type of production (Oil or Gas)	OIL		OIL
4. Method of Production (Flowing or Artificial Lift)	ARTIFICIAL LIFT		ARTIFICIAL LIFT
5. Bottomhole Pressure	a. (Current) 120 BHP	a.	a.
Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. (Original)	b.	b. FROM LOU WORTHAM C#2 ANALOGY (ATTACHED) 880 PSI
6. Oil Gravity (EAPI) or Gas BTU Content	35.0° API		37.1° API
7. Producing or Shut-In?	PRODUCING		SI
Production Marginal? (yes or no)	YES		YES, IN OFFSETTING LSES
* If Shut-In, give date and oil/gas/water rates of last production	Date: Rates:	Date: Rates:	Date: 08/82 Rates: 27 BOPD, 245 BWPD 330 MCFPD
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Date: 4/20/99 Rates: 1 BOPD, 23 MCFPD, 2 BWPD	Date: Rates:	Date: Rates:
* If Producing, give date and oil/gas/water rates of recent test (within 60 days)			
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Oil: 3.5 % Gas: 6.5 %	Oil: % Gas: %	Oil: 96.5 % Gas: 93.5 %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.
10. Are all working, overriding, and royalty interests identical in all commingled zones? ☒ Yes ☐ No  
If not, have all working, overriding, and royalty interests been notified by certified mail? ☐ Yes ☐ No  
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No
11. Will cross-flow occur? ☐ Yes ☒ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☐ Yes ☐ No (If No, attach explanation)
12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No
13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)
14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☐ Yes ☐ No
15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). \_\_\_\_\_
16. ATTACHMENTS:  
\* C-102 for each zone to be commingled showing its spacing unit and acreage dedication.  
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\* Data to support allocation method or formula.  
\* Notification list of all offset operators.  
\* Notification list of working, overriding, and royalty interests for uncommon interest cases.  
\* Any additional statements, data, or documents required to support commingling.

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

SIGNATURE Richard Lauderdale TITLE Production Engineer DATE 5/19/99

TYPE OR PRINT NAME RICHARD LAUDERDALE TELEPHONE NO. (915/683-0559)

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-120  
Effective 1-1-85

All distances must be from the outer boundaries of the Section

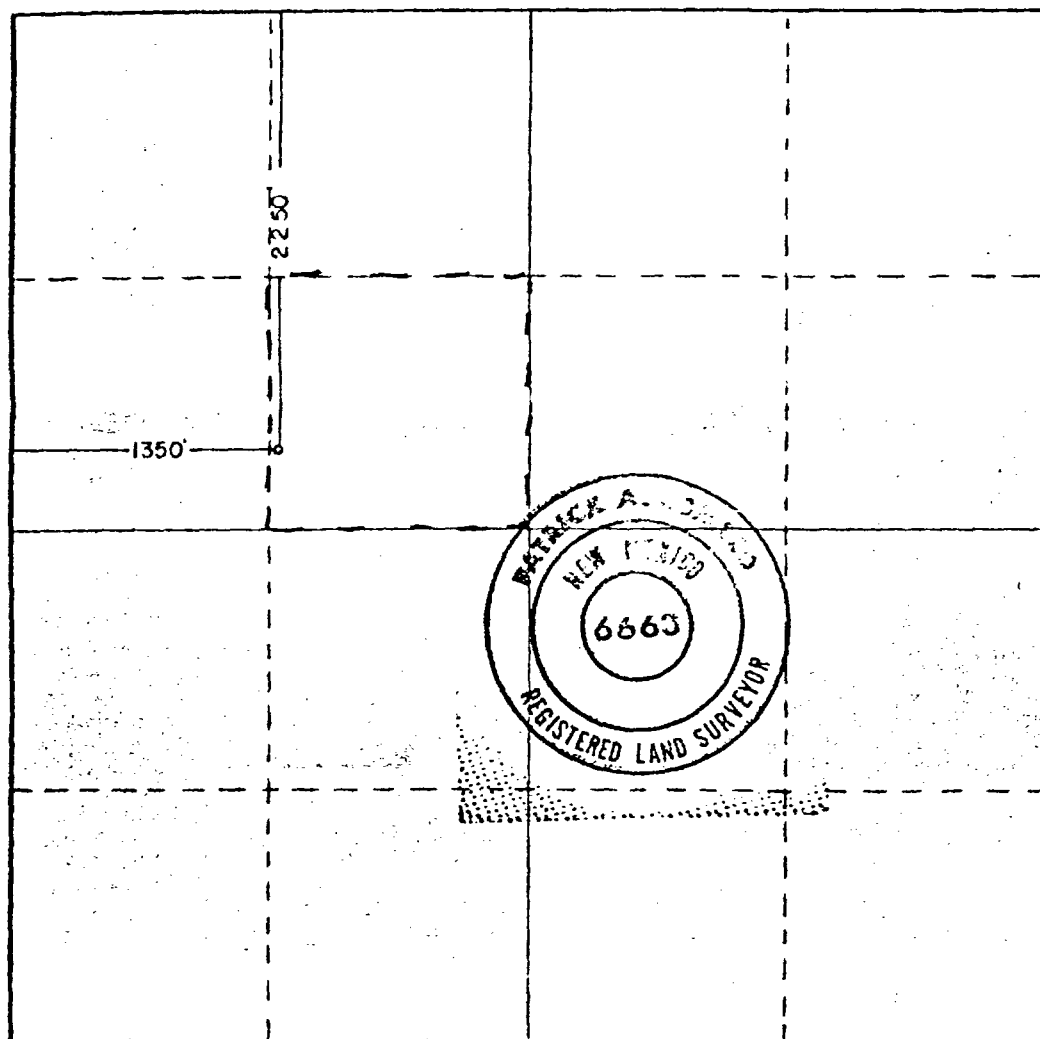
Operator <b>ANADARKO PRODUCTION CO.</b>		Lease <b>E. W. WALDEN</b>		Well No. <b>12</b>
Tract Letter <b>F</b>	Section <b>15</b>	Township <b>22 SOUTH</b>	Range <b>37 EAST</b>	County <b>LEA</b>
Actual Footage Location of Well: <b>2250</b> feet from the <b>NORTH</b> line and <b>1350</b> feet from the <b>WEST</b> line				
Ground Level Elev. <b>3402.6</b>	Producing Formation <b>Grayburg SA</b>	Pool <b>Penrose Skelly</b>	(Pool Code) <b>50350</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 \_\_\_\_\_

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.



REL 5/19/89	CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
<i>John C. English</i>	
Name	John English
Position	Area Supervisor
Company	Anadarko Production Company
Date	February 17, 1982
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	2-11-82
Registered Professional Engineer and/or Land Surveyor	
<i>Patrick A. Romero</i>	
Certificate No.	JOHN W. WEST 876 PATRICK A. ROMERO 6663 Ronald J. Eidson 3239

330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

# NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-1  
Effective 1-1-81

All distances must be from the outer boundaries of the Section

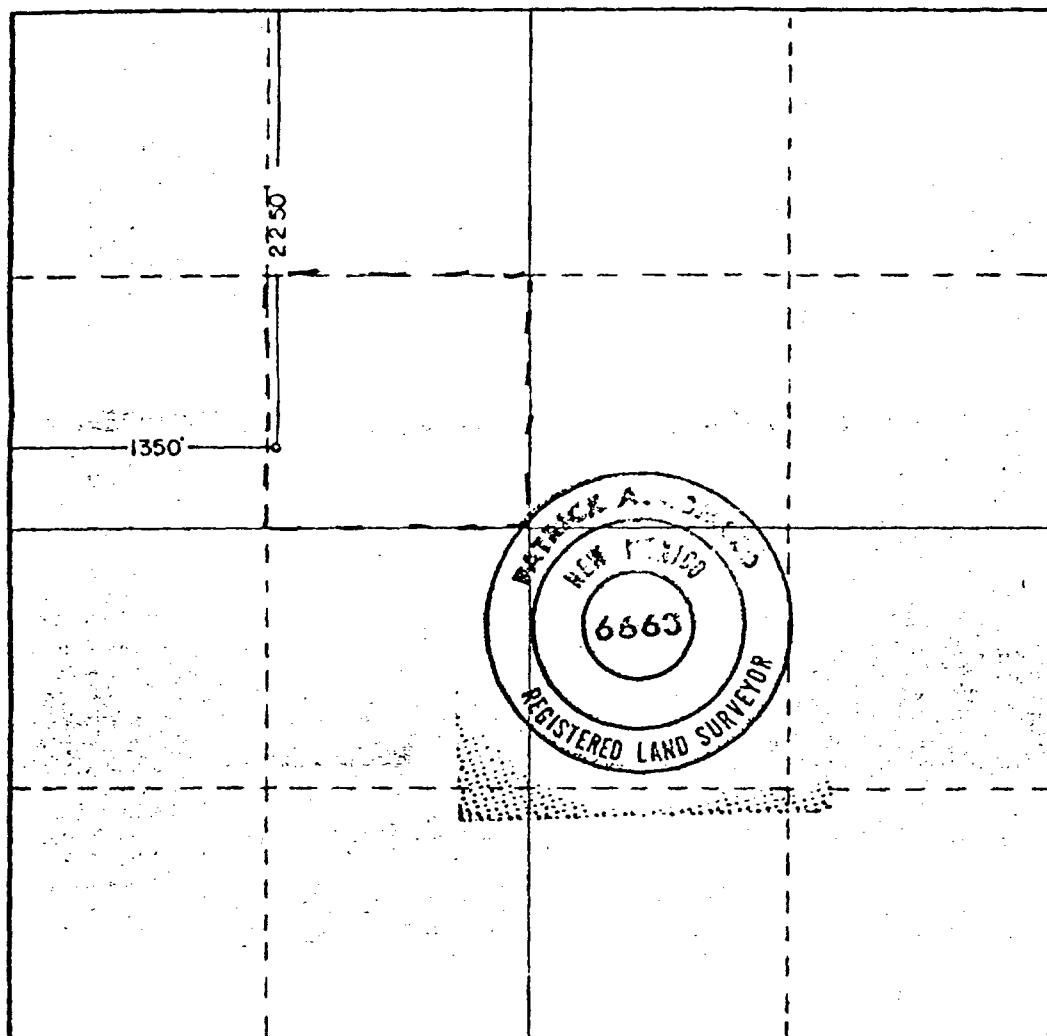
Operator <b>ANADARKO PRODUCTION CO.</b>			Lease <b>E. W. WALDEN</b>		Well No. <b>12</b>
Tract Letter <b>F</b>	Section <b>15</b>	Township <b>22 SOUTH</b>	Range <b>37 EAST</b>	County <b>LEA</b>	
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REL  
5/19/89

## CERTIFICATION

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*John C. English*  
Name

John English

Position

Area Supervisor

Company

Anadarko Production Company

Date

February 17, 1982

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Date Surveyed

2-11-82

Registered Professional Engineer and/or Land Surveyor

*Patrick A. Romero*

Certificate No. **JOHN W. WEST 876**  
**PATRICK A. ROMERO 666**  
**Ronald J. Edison 323**



# NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-1  
Effective 1-1-81

All distances must be from the outer boundaries of the Section

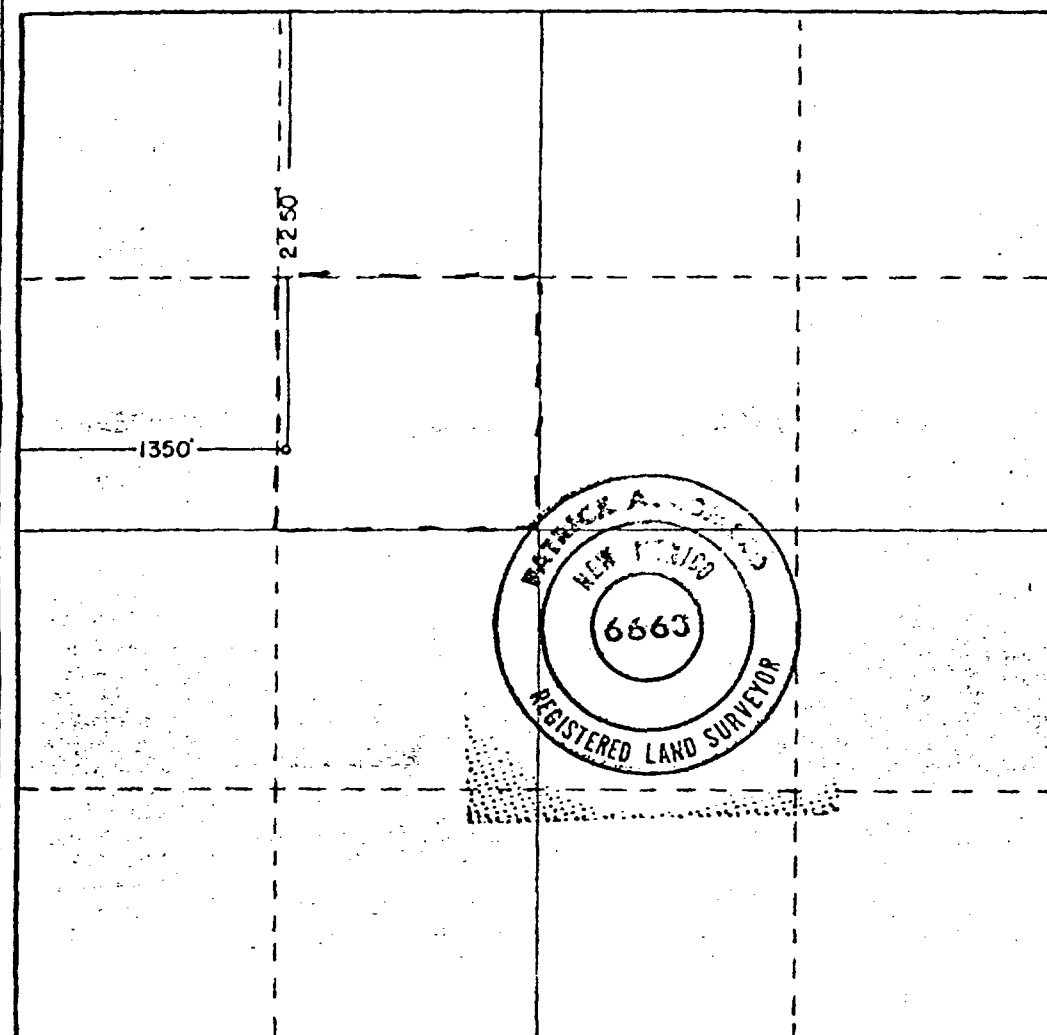
Lessor <b>ANADARKO PRODUCTION CO.</b>			Lease <b>E. W. WALDEN</b>		Well No. <b>12</b>
Tract Letter <b>F</b>	Section <b>15</b>	Township <b>22 SOUTH</b>	Range <b>37 EAST</b>	County <b>LEA</b>	
Actual Footage Location of Well:					
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Ground Level Elev. <b>3402.6</b>	Producing Formation <b>Grayburg SA</b>	Pool <b>Penrose Skelly</b>	(Pool Code) <b>50350</b>	Dedicated Acreage: <b>40</b>	Acre

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CERTIFICATION	
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<i>John C. English</i>	
Name	<b>John English</b>
Position	<b>Area Supervisor</b>
Company	<b>Anadarko Production Company</b>
Date	<b>February 17, 1982</b>
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Registered Professional Engineer and or Land Surveyor	
<i>Patrick A. Romero</i>	
Certificate No.	<b>JOHN W. WEST 876</b> <b>PATRICK A. ROMERO 888</b> <b>Ronald J. Eidson 323</b>

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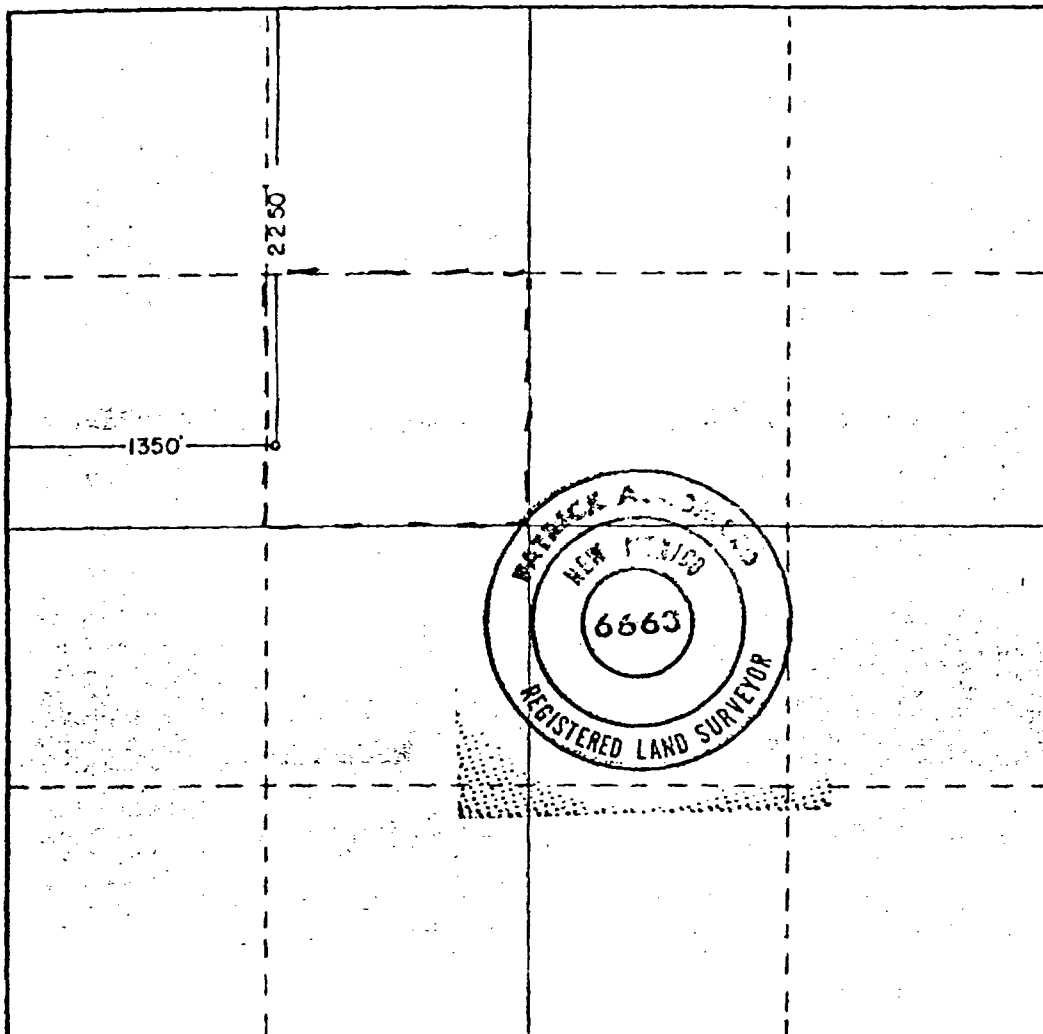
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*John C. English*  
Name

John English

Position

Area Supervisor

Company

Anadarko Production Company

Date

February 17, 1982

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Date Surveyed

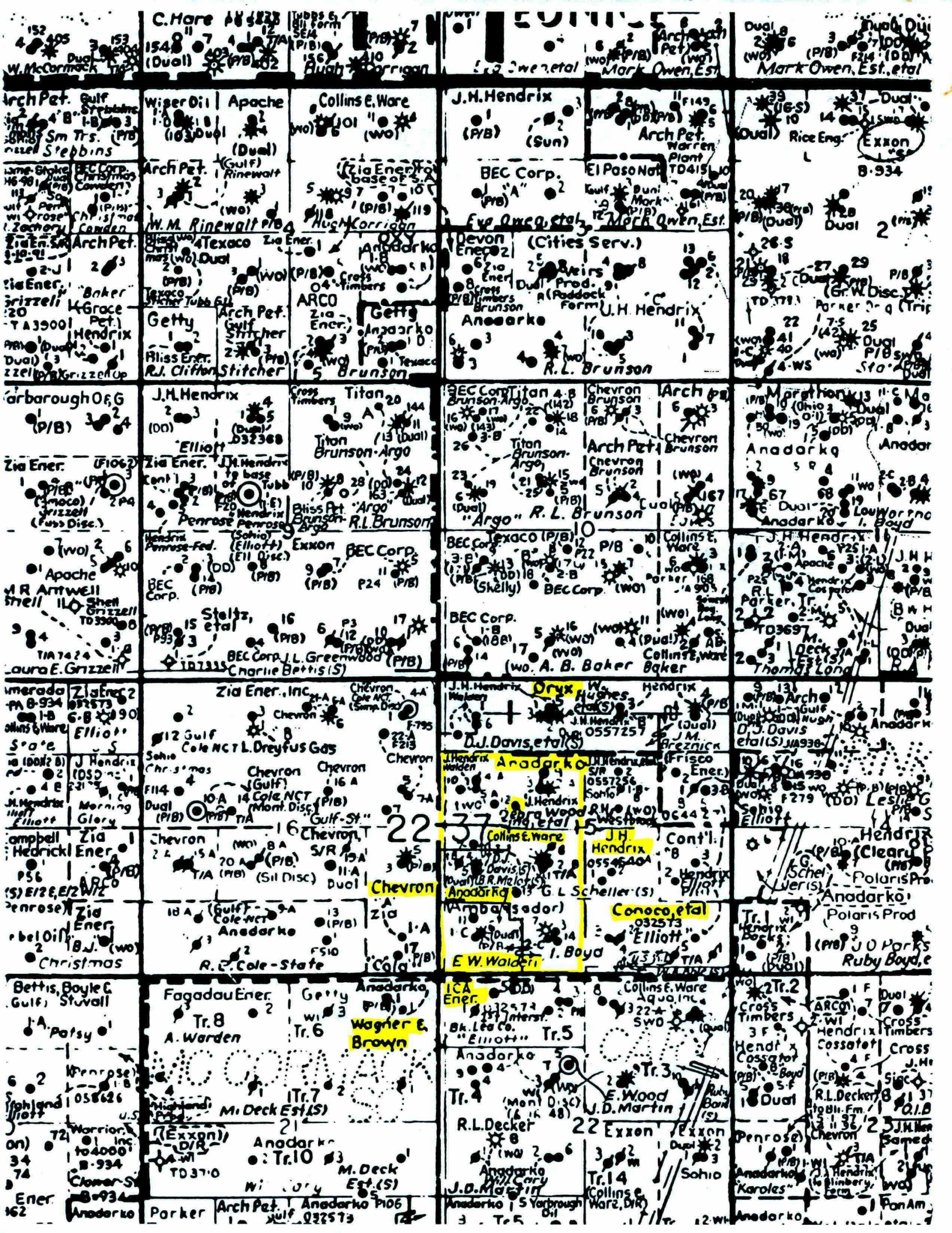
2-11-82

Registered Professional Engineer and or Land Surveyor

*Patrick A. Romero*

Certificate No. **JOHN W. WEST 876**  
**PATRICK A. ROMERO 666**  
**Ronald J. Eidson 323**







District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
811 S. 1st Street, Artesia, NM 88210-2834  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-102  
Revised October 18, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-27756	<sup>2</sup> Pool Code 24180	<sup>3</sup> Pool Name UNDESINATED - EUNICE; SAN ANDRES, SOUTHWEST
<sup>4</sup> Property Code 001414	<sup>5</sup> Property Name E.W. WALDEN	<sup>6</sup> Well Number
<sup>7</sup> OGRID No. 000817	<sup>8</sup> Operator Name Anadarko Petroleum Corp.	<sup>9</sup> Elevation 3402.6' GR

<sup>10</sup> Surface Location									
UL or lot no. F	Section 15	Township 22S	Range 37E	Lot. Idn	Feet from the 2250	North/South Line NORTH	Feet from the 1350	East/West line WEST	County LEA

<sup>11</sup> Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres <sup>13</sup> Joint or Infill <sup>14</sup> Consolidation Code <sup>15</sup> Order No.									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON--STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>2250'</p> <p>1350'</p>	<sup>17</sup> OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>   Signature RICHARD LAUDERDALE Printed Name PRODUCTION ENGINEER Title 05/19/1999 Date			
	<sup>18</sup> SURVEYOR CERTIFICATION <i>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 belief.</i>  Date of Survey Signature and Seal of Professional Surveyer:  Certificate Number			

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
811 S. 1st Street, Artesia, NM 88210-2834  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-102  
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-27756	<sup>2</sup> Pool Code 24180	<sup>3</sup> Pool Name UNDESINATED - EUNICE; SAN ANDRES, SOUTHWEST
<sup>4</sup> Property Code 001414	<sup>5</sup> Property Name E.W. WALDEN	<sup>6</sup> Well Number
<sup>7</sup> OGRID No. 000817	<sup>8</sup> Operator Name Anadarko Petroleum Corp.	<sup>9</sup> Elevation 3402.6' GR

<sup>10</sup> Surface Location

UL or lot no. F	Section 15	Township 22S	Range 37E	Lot. Idn	Feet from the 2250	North/South Line NORTH	Feet from the 1350	East/West line WEST	County LEA
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<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
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<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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	2250'			<sup>17</sup> OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>  Richard Lauderdale Signature RICHARD LAUDERDALE Printed Name PRODUCTION ENGINEER Title 05/19/1999 Date
1350'				<sup>18</sup> SURVEYOR CERTIFICATION <i>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 belief.</i>  Date of Survey Signature and Seal of Professional Surveyer:  Certificate Number

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**I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**

<sup>1</sup> Operator name and Address Anadarko Petroleum Corp. P.O. Box 2497 Midland, TX 79702		<sup>2</sup> OGRID Number 000817
		<sup>3</sup> Reason for Filing Code COMMINGLE DOWNHOLE
<sup>4</sup> API Number 30-0 25-27756	<sup>5</sup> Pool Name PENROSE SKELLY GRAYBURG	<sup>6</sup> Pool Code 50350
<sup>7</sup> Property Code 001414	<sup>8</sup> Property Name E.W. WALDEN	<sup>9</sup> Well Number 12

**II. <sup>10</sup> Surface Location**

UL or lot no. F	Section 15	Township 22S	Range 37E	Lot. Idn	Feet from the 2250	North/South Line NORTH	Feet from the 1350	East/West line WEST	County LEA
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**<sup>11</sup> Bottom Hole Location**

UL or lot no. F	Section 15	Township 22S	Range 37E	Lot. Idn	Feet from the 2250	North/South Line NORTH	Feet from the 1350	East/West line WEST	County LEA
<sup>12</sup> Lse Code P	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date				

**III. Oil and Gas Transporters**

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> POD	<sup>21</sup> O/G	<sup>22</sup> POD ULSTR Location and Description
024650	DYNEGY MIDSTREAM SERVICES 6 DESTA DR., STE. 3300 MIDLAND, TX 79705	0454230	G	
020667	EQUILON PIPELINE CO., LLC HCR 1, BOX 89 DENVER CITY, TX 79323	0454210	O	
009171	GPM GAS CORPORATION PO BOX 50020 MIDLAND, TX 79710-0020	0454230	G	

**IV. Produced Water**

<sup>23</sup> POD	<sup>24</sup> POD ULSTR Location and Description
-------------------	--

**V. Well Completion Data**

<sup>25</sup> Spud Date 05/31/82	<sup>26</sup> Ready Date 07/04/82	<sup>27</sup> TD 4031	<sup>28</sup> PBDT 3890	<sup>29</sup> Perforations 3640-3843	<sup>30</sup> DHC, DC, MC
<sup>31</sup> Hole Size 12-1/4"	<sup>32</sup> Casing & Tubing Size 8-5/8" CSG	<sup>33</sup> Depth Set 1166'	<sup>34</sup> Sacks Cement 575 SX		
7-7/8"	5-1/2" CSG	4031'	680 SX		
			TEMP SVY - TOC @ 968'		
2-3/8 TBG		3890'			

**VI. Well Test Data**

<sup>35</sup> Date New Oil	<sup>36</sup> Gas Delivery Date	<sup>37</sup> Test Date	<sup>38</sup> Test Length	<sup>39</sup> Tbg. Pressure	<sup>40</sup> Csg. Pressure
<sup>41</sup> Choke Size	<sup>42</sup> Oil	<sup>43</sup> Water	<sup>44</sup> Gas	<sup>45</sup> AOF	<sup>46</sup> Test Method

<sup>47</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Richard Lauderdale</i>		<b>OIL CONSERVATION DIVISION</b>	
Printed name: RICHARD LAUDERDALE		Approved by:	
Title: PRODUCTION ENGINEER		Title:	
Date: 05/19/1999		Approval Date:	
Phone: 915/683-0559			

<sup>48</sup> If this is a change of operator fill in the OGRID number and name of the previous operator			
Previous Operator Signature	Printed Name	Title	Date



District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
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State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
**2040 South Pacheco**  
**Santa Fe, NM 87505**

Form C-104  
Revised October 18, 1994  
Instructions on back  
Submit to Appropriate District Office  
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☒ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

<sup>1</sup> Operator name and Address Anadarko Petroleum Corp. P.O. Box 2497 Midland, TX 79702		<sup>2</sup> OGRID Number 000817
		<sup>3</sup> Reason for Filing Code COMMINGLE DOWNHOLE
<sup>4</sup> API Number 30-0 25-27756	<sup>5</sup> Pool Name PENROSE SKELLY GRAYBURG	<sup>6</sup> Pool Code 50350
<sup>7</sup> Property Code 001414	<sup>8</sup> Property Name E.W. WALDEN	<sup>9</sup> Well Number 12

II. <sup>10</sup> Surface Location

UL or lot no. F	Section 15	Township 22S	Range 37E	Lot. Idn	Feet from the 2250	North/South Line NORTH	Feet from the 1350	East/West line WEST	County LEA
--------------------	---------------	-----------------	--------------	----------	-----------------------	---------------------------	-----------------------	------------------------	---------------

<sup>11</sup> Bottom Hole Location

UL or lot no. F	Section 15	Township 22S	Range 37E	Lot. Idn	Feet from the 2250	North/South Line NORTH	Feet from the 1350	East/West line WEST	County LEA
<sup>12</sup> Lse Code P	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date				

III. Oil and Gas Transporters

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> POD	<sup>21</sup> O/G	<sup>22</sup> POD ULSTR Location and Description
024650	DYNEGY MIDSTREAM SERVICES 6 DESTA DR., STE. 3300 MIDLAND, TX 79705	0454230	G	
020667	EQUILON PIPELINE CO., LLC HCR 1, BOX 89 DENVER CITY, TX 79323	0454210	O	
009171	GPM GAS CORPORATION PO BOX 50020 MIDLAND, TX 79710-0020	0454230	G	

IV. Produced Water

<sup>23</sup> POD	<sup>24</sup> POD ULSTR Location and Description
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V. Well Completion Data

<sup>25</sup> Spud Date 05/31/82	<sup>26</sup> Ready Date 07/04/82	<sup>27</sup> TD 4031	<sup>28</sup> PBSD 3890	<sup>29</sup> Perforations 3640-3843	<sup>30</sup> DHC, DC, MC
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			TEMP SVY - TQC @ 968'		
2-3/8 TBG		3890'			

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<sup>47</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Richard Lauderdale*

Printed name:  
RICHARD LAUDERDALE

Title:  
PRODUCTION ENGINEER

Date: 05/19/1999

Phone: 915/683-0559

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

<sup>48</sup> If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

Printed Name

Title

Date

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UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA

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024650	DYNEGY MIDSTREAM SERVICES 6 DESTA DR., STE. 3300 MIDLAND, TX 79705	0454230	G	
020667	EQUILON PIPELINE CO., LLC HCR 1, BOX 89 DENVER CITY, TX 79323	0454210	O	
009171	GPM GAS CORPORATION PO BOX 50020 MIDLAND, TX 79710-0020	0454230	G	

**IV. Produced Water**

<sup>23</sup> POD	<sup>24</sup> POD ULSTR Location and Description
-------------------	--

**V. Well Completion Data**

<sup>25</sup> Spud Date 05/31/82	<sup>26</sup> Ready Date 07/04/82	<sup>27</sup> TD 4031	<sup>28</sup> PBTD 3890	<sup>29</sup> Perforations 3640-3843	<sup>30</sup> DHC, DC, MC
<sup>31</sup> Hole Size 12-1/4"	<sup>32</sup> Casing & Tubing Size 8-5/8" CSG	<sup>33</sup> Depth Set 1166'	<sup>34</sup> Sacks Cement 575 SX		
7-7/8"	5-1/2" CSG	4031'	680 SX		
			TEMP SVY - TOC @ 968'		
2-3/8 TBG		3890'			

**VI. Well Test Data**

<sup>35</sup> Date New Oil	<sup>36</sup> Gas Delivery Date	<sup>37</sup> Test Date	<sup>38</sup> Test Length	<sup>39</sup> Tbg. Pressure	<sup>40</sup> Csg. Pressure
<sup>41</sup> Choke Size	<sup>42</sup> Oil	<sup>43</sup> Water	<sup>44</sup> Gas	<sup>45</sup> AOF	<sup>46</sup> Test Method

<sup>47</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Richard Lauderdale</i>		<b>OIL CONSERVATION DIVISION</b>	
Printed name: RICHARD LAUDERDALE		Approved by:	
Title: PRODUCTION ENGINEER		Title:	
Date: 05/19/1999		Approval Date:	
Phone: 915/683-0559			

<sup>48</sup> If this is a change of operator fill in the OGRID number and name of the previous operator			
Previous Operator Signature	Printed Name	Title	Date

**OIL CONSERVATION DIVISION**  
**2040 South Pacheco**  
**Santa Fe, NM 87505**

☒ AMENDED REPORT

## I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

<sup>1</sup> Operator name and Address Anadarko Petroleum Corp. P.O. Box 2497 Midland, TX 79702		<sup>2</sup> OGRID Number 000817
		<sup>3</sup> Reason for Filing Code COMMINGLE DOWNHOLE
<sup>4</sup> API Number 30-0 25-27756	<sup>5</sup> Pool Name PENROSE SKELLY GRAYBURG	<sup>6</sup> Pool Code 50350
<sup>7</sup> Property Code 001414	<sup>8</sup> Property Name E.W. WALDEN	<sup>9</sup> Well Number 12

## II. <sup>10</sup>Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA

### <sup>11</sup> Bottom Hole Location

UL or lot no. F	Section 15	Township 22S	Range 37E	Lot. Idn	Feet from the 2250	North/South Line NORTH	Feet from the 1350	East/West line WEST	County LEA
12 Lse Code P	13 Producing Method Code P		14 Gas Connection Date		15 C-129 Permit Number		16 C-129 Effective Date		17 C-129 Expiration Date

### III. Oil and Gas Transporters

18 Transporter OGRID	19 Transporter Name and Address	20 POD	21 O/G	22 POD ULSTR Location and Description
024650	DYNEGY MIDSTREAM SERVICES	0454230	G	
	6 DESTA DR., STE. 3300			
	MIDLAND, TX 79705			
020667	EQUILON PIPELINE CO., LLC	0454210	O	
	HCR 1, BOX 89			
	DENVER CITY, TX 79323			
009171	GPM GAS CORPORATION	0454230	G	
	PO BOX 50020			
	MIDLAND, TX 79710-0020			

#### IV. Produced Water

23 POD	24 POD ULSTR Location and Description
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## V. Well Completion Data

<sup>25</sup> Spud Date	<sup>26</sup> Ready Date	<sup>27</sup> TD	<sup>28</sup> PBTd	<sup>29</sup> Perforations	<sup>30</sup> DHC, DC, MC
05/31/82	07/04/82	4031	3890	3640-3843	
<sup>31</sup> Hole Size	<sup>32</sup> Casing & Tubing Size	<sup>33</sup> Depth Set	<sup>34</sup> Sacks Cement		
12-1/4"	8-5/8" CSG	1166'	575 SX		
7-7/8"	5-1/2" CSG	4031'	680 SX		
			TEMP SVY - TOC @ 968'		
	2-3/8 TBG	3890'			

## VI. Well Test Data

<sup>35</sup> Date New Oil	<sup>36</sup> Gas Delivery Date	<sup>37</sup> Test Date	<sup>38</sup> Test Length	<sup>39</sup> Tbg. Pressure	<sup>40</sup> Csg. Pressure
<sup>41</sup> Choke Size	<sup>42</sup> Oil	<sup>43</sup> Water	<sup>44</sup> Gas	<sup>45</sup> AOF	<sup>46</sup> Test Method

<p>47 I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.</p> <p>Signature: <u>Richard Lauderdale</u></p>		<p><b>OIL CONSERVATION DIVISION</b></p> <p>Approved by:</p>
<p>Printed name: RICHARD LAUDERDALE</p>		<p>Title:</p>
<p>Title: PRODUCTION ENGINEER</p>		<p>Approval Date:</p>
<p>Date: 05/19/1999</p>	<p>Phone: 915/683-0559</p>	

<sup>48</sup> If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature	Printed Name	Title	Date
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District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-104  
Revised October 18, 1994  
Instructions on back  
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☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

<sup>1</sup> Operator name and Address Anadarko Petroleum Corp. P.O. Box 2497 Midland, TX 79702		<sup>2</sup> OGRID Number 000817
		<sup>3</sup> Reason for Filing Code COMMINGLE DOWNHOLE
<sup>4</sup> API Number 30-0 25-27756	<sup>5</sup> Pool Name UNDESINATED - EUNICE; SAN ANDRES, SOUTHWEST	<sup>6</sup> Pool Code 24180
<sup>7</sup> Property Code 001414	<sup>8</sup> Property Name E.W. WALDEN	<sup>9</sup> Well Number 12

II. <sup>10</sup> Surface Location

UL or lot no. F	Section 15	Township 22S	Range 37E	Lot. Idn	Feet from the 2250	North/South Line NORTH	Feet from the 1350	East/West line WEST	County LEA
--------------------	---------------	-----------------	--------------	----------	-----------------------	---------------------------	-----------------------	------------------------	---------------

<sup>11</sup> Bottom Hole Location

UL or lot no. F	Section 15	Township 22S	Range 37E	Lot. Idn	Feet from the 2250	North/South Line NORTH	Feet from the 1350	East/West line WEST	County LEA
<sup>12</sup> Lse Code P	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date		<sup>15</sup> C-129 Permit Number		<sup>16</sup> C-129 Effective Date		<sup>17</sup> C-129 Expiration Date	

III. Oil and Gas Transporters

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> POD	<sup>21</sup> O/G	<sup>22</sup> POD ULSTR Location and Description
024650	DYNEGY MIDSTREAM SERVICES 6 DESTA DR., STE. 3300 MIDLAND, TX 79705	0454230	G	
020667	EQUILON PIPELINE CO., LLC HCR 1, BOX 89 DENVER CITY, TX 79323	0454210	O	
009171	GPM GAS CORPORATION PO BOX 50020 MIDLAND, TX 79710-0020	0454230	G	

IV. Produced Water

<sup>23</sup> POD	<sup>24</sup> POD ULSTR Location and Description
-------------------	--

V. Well Completion Data

<sup>25</sup> Spud Date 05/31/82	<sup>26</sup> Ready Date 07/04/82	<sup>27</sup> TD 4031	<sup>28</sup> PBSD 3890	<sup>29</sup> Perforations 3899-3976	<sup>30</sup> DHC, DC, MC
<sup>31</sup> Hole Size 12-1/4"	<sup>32</sup> Casing & Tubing Size 8-5/8" CSG	<sup>33</sup> Depth Set 1166'		<sup>34</sup> Sacks Cement 575 SX	
7-7/8"	5-1/2" CSG	4031'		680 SX	
				TEMP SVY - TOC @ 968'	
2-3/8 TBG		3890'			

VI. Well Test Data

<sup>35</sup> Date New Oil	<sup>36</sup> Gas Delivery Date	<sup>37</sup> Test Date	<sup>38</sup> Test Length	<sup>39</sup> Tbg. Pressure	<sup>40</sup> Csg. Pressure
<sup>41</sup> Choke Size	<sup>42</sup> Oil	<sup>43</sup> Water	<sup>44</sup> Gas	<sup>45</sup> AOF	<sup>46</sup> Test Method

<sup>47</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Richard Lauderdale</i>		OIL CONSERVATION DIVISION Approved by:  Title:  Approval Date:	
Printed name: RICHARD LAUDERDALE			
Title: PRODUCTION ENGINEER			
Date: 05/19/1999	Phone: 915/683-0559		

<sup>48</sup> If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature	Printed Name	Title	Date
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District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
**2040 South Pacheco**  
**Santa Fe, NM 87505**

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		<sup>3</sup> Reason for Filing Code COMMINGLE DOWNHOLE
<sup>4</sup> API Number 30-0 25-27756	<sup>5</sup> Pool Name UNDESINATED - EUNICE; SAN ANDRES, SOUTHWEST	<sup>6</sup> Pool Code 24180
<sup>7</sup> Property Code 001414	<sup>8</sup> Property Name E.W. WALDEN	<sup>9</sup> Well Number 12

**II. <sup>10</sup> Surface Location**

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA

**<sup>11</sup> Bottom Hole Location**

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA
<sup>12</sup> Lse Code P	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date				

**III. Oil and Gas Transporters**

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> POD	<sup>21</sup> O/G	<sup>22</sup> POD ULSTR Location and Description
024650	DYNEGY MIDSTREAM SERVICES 6 DESTA DR., STE. 3300 MIDLAND, TX 79705	0454230	G	
020667	EQUILON PIPELINE CO., LLC HCR 1, BOX 89 DENVER CITY, TX 79323	0454210	O	
009171	GPM GAS CORPORATION PO BOX 50020 MIDLAND, TX 79710-0020	0454230	G	

**IV. Produced Water**

<sup>23</sup> POD	<sup>24</sup> POD ULSTR Location and Description
-------------------	--

**V. Well Completion Data**

<sup>25</sup> Spud Date 05/31/82	<sup>26</sup> Ready Date 07/04/82	<sup>27</sup> TD 4031	<sup>28</sup> PBTB 3890	<sup>29</sup> Perforations 3899-3976	<sup>30</sup> DHC, DC, MC
<sup>31</sup> Hole Size 12-1/4"	<sup>32</sup> Casing & Tubing Size 8-5/8" CSG	<sup>33</sup> Depth Set 1166'	<sup>34</sup> Sacks Cement 575 SX		
7-7/8"	5-1/2" CSG	4031'	680 SX		
			TEMP SVY - TOC @ 968'		
2-3/8 TBG		3890'			

**VI. Well Test Data**

<sup>35</sup> Date New Oil	<sup>36</sup> Gas Delivery Date	<sup>37</sup> Test Date	<sup>38</sup> Test Length	<sup>39</sup> Tbg. Pressure	<sup>40</sup> Csg. Pressure
<sup>41</sup> Choke Size	<sup>42</sup> Oil	<sup>43</sup> Water	<sup>44</sup> Gas	<sup>45</sup> AOF	<sup>46</sup> Test Method

<sup>47</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Richard Lauderdale*

Printed name:  
RICHARD LAUDERDALE

Title:  
PRODUCTION ENGINEER

Date: 05/19/1999

Phone: 915/683-0559

**OIL CONSERVATION DIVISION**

Approved by:

Title:

Approval Date:

<sup>48</sup> If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

Printed Name

Title

Date

District I  
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District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
**2040 South Pacheco**  
**Santa Fe, NM 87505**

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		<sup>3</sup> Reason for Filing Code COMMINGLE DOWNHOLE
<sup>4</sup> API Number 30-0 25-27756	<sup>5</sup> Pool Name UNDESINATED - EUNICE; SAN ANDRES, SOUTHWEST	<sup>6</sup> Pool Code 24180
<sup>7</sup> Property Code 001414	<sup>8</sup> Property Name E.W. WALDEN	<sup>9</sup> Well Number 12

II. <sup>10</sup> Surface Location

UL or lot no. F	Section 15	Township 22S	Range 37E	Lot. Idn	Feet from the 2250	North/South Line NORTH	Feet from the 1350	East/West line WEST	County LEA
--------------------	---------------	-----------------	--------------	----------	-----------------------	---------------------------	-----------------------	------------------------	---------------

<sup>11</sup> Bottom Hole Location

UL or lot no. F	Section 15	Township 22S	Range 37E	Lot. Idn	Feet from the 2250	North/South Line NORTH	Feet from the 1350	East/West line WEST	County LEA
<sup>12</sup> Lse Code P	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date				

III. Oil and Gas Transporters

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> POD	<sup>21</sup> O/G	<sup>22</sup> POD ULSTR Location and Description
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020667	EQUILON PIPELINE CO., LLC HCR 1, BOX 89 DENVER CITY, TX 79323	0454210	O	
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IV. Produced Water

<sup>23</sup> POD	<sup>24</sup> POD ULSTR Location and Description
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V. Well Completion Data

<sup>25</sup> Spud Date 05/31/82	<sup>26</sup> Ready Date 07/04/82	<sup>27</sup> TD 4031	<sup>28</sup> PBSD 3890	<sup>29</sup> Perforations 3899-3976	<sup>30</sup> DHC, DC, MC
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7-7/8"	5-1/2" CSG	4031'	680 SX		
			TEMP SVY - TOC @ 968'		
2-3/8 TBG		3890'			

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<sup>35</sup> Date New Oil	<sup>36</sup> Gas Delivery Date	<sup>37</sup> Test Date	<sup>38</sup> Test Length	<sup>39</sup> Tbg. Pressure	<sup>40</sup> Csg. Pressure
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Printed name: RICHARD LAUDERDALE		Title:	
Title: PRODUCTION ENGINEER		Approval Date:	
Date: 05/19/1999	Phone: 915/683-0559		

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State of New Mexico  
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II. <sup>10</sup> Surface Location

UL or lot no. F	Section 15	Township 22S	Range 37E	Lot. Idn	Feet from the 2250	North/South Line NORTH	Feet from the 1350	East/West line WEST	County LEA
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<sup>11</sup> Bottom Hole Location

UL or lot no. F	Section 15	Township 22S	Range 37E	Lot. Idn	Feet from the 2250	North/South Line NORTH	Feet from the 1350	East/West line WEST	County LEA
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III. Oil and Gas Transporters

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> POD	<sup>21</sup> O/G	<sup>22</sup> POD ULSTR Location and Description
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009171	GPM GAS CORPORATION PO BOX 50020 MIDLAND, TX 79710-0020	0454230	G	

IV. Produced Water

<sup>23</sup> POD	<sup>24</sup> POD ULSTR Location and Description
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V. Well Completion Data

<sup>25</sup> Spud Date 05/31/82	<sup>26</sup> Ready Date 07/04/82	<sup>27</sup> TD 4031	<sup>28</sup> PBTB 3890	<sup>29</sup> Perforations 3899-3976	<sup>30</sup> DHC, DC, MC
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<sup>35</sup> Date New Oil	<sup>36</sup> Gas Delivery Date	<sup>37</sup> Test Date	<sup>38</sup> Test Length	<sup>39</sup> Tbg. Pressure	<sup>40</sup> Csg. Pressure
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Signature: *Richard Lauderdale*

Printed name:  
RICHARD LAUDERDALE

Title:  
PRODUCTION ENGINEER

Date: 05/19/1999

Phone: 915/683-0559

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

<sup>48</sup> If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature	Printed Name	Title	Date
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I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

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<sup>11</sup> Bottom Hole Location

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009171	GPM GAS CORPORATION PO BOX 50020 MIDLAND, TX 79710-0020	0454230	G	

IV. Produced Water

<sup>23</sup> POD	<sup>24</sup> POD ULSTR Location and Description
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V. Well Completion Data

<sup>25</sup> Spud Date 05/31/82	<sup>26</sup> Ready Date 07/04/82	<sup>27</sup> TD 4031	<sup>28</sup> PBSD 3890	<sup>29</sup> Perforations 3899-3976	<sup>30</sup> DHC, DC, MC
<sup>31</sup> Hole Size 12-1/4"	<sup>32</sup> Casing & Tubing Size 8-5/8" CSG	<sup>33</sup> Depth Set 1166'	<sup>34</sup> Sacks Cement 575 SX		
7-7/8"	5-1/2" CSG	4031'	680 SX		
			TEMP SVY - TOC @ 968'		
2-3/8 TBG		3890'			

VI. Well Test Data

<sup>35</sup> Date New Oil	<sup>36</sup> Gas Delivery Date	<sup>37</sup> Test Date	<sup>38</sup> Test Length	<sup>39</sup> Tbg. Pressure	<sup>40</sup> Csg. Pressure
<sup>41</sup> Choke Size	<sup>42</sup> Oil	<sup>43</sup> Water	<sup>44</sup> Gas	<sup>45</sup> AOF	<sup>46</sup> Test Method

<sup>47</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Richard Lauderdale</i>		<b>OIL CONSERVATION DIVISION</b> Approved by:	
Printed name: RICHARD LAUDERDALE		Title:	
Title: PRODUCTION ENGINEER		Approval Date:	
Date: 05/19/1999	Phone: 915/683-0559		

<sup>48</sup> If this is a change of operator fill in the OGRID number and name of the previous operator			
Previous Operator Signature	Printed Name	Title	Date

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

<sup>1</sup> Operator name and Address Anadarko Petroleum Corp. P.O. Box 2497 Midland, TX 79702		<sup>2</sup> OGRID Number 000817
		<sup>3</sup> Reason for Filing Code COMMINGLE DOWNHOLE
<sup>4</sup> API Number 30-0 25-27756	<sup>5</sup> Pool Name UNDESINATED - EUNICE; SAN ANDRES, SOUTHWEST	<sup>6</sup> Pool Code 24180
<sup>7</sup> Property Code 001414	<sup>8</sup> Property Name E.W. WALDEN	<sup>9</sup> Well Number 12

II. <sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA

<sup>11</sup> Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	15	22S	37E		2250	NORTH	1350	WEST	LEA
<sup>12</sup> Lse Code P	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date		<sup>15</sup> C-129 Permit Number		<sup>16</sup> C-129 Effective Date		<sup>17</sup> C-129 Expiration Date	

III. Oil and Gas Transporters

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> POD	<sup>21</sup> O/G	<sup>22</sup> POD ULSTR Location and Description
024650	DYNEGY MIDSTREAM SERVICES 6 DESTA DR., STE. 3300 MIDLAND, TX 79705	0454230	G	
020667	EQUILON PIPELINE CO., LLC HCR 1, BOX 89 DENVER CITY, TX 79323	0454210	O	
009171	GPM GAS CORPORATION PO BOX 50020 MIDLAND, TX 79710-0020	0454230	G	

IV. Produced Water

<sup>23</sup> POD	<sup>24</sup> POD ULSTR Location and Description
-------------------	--

V. Well Completion Data

<sup>25</sup> Spud Date 05/31/82	<sup>26</sup> Ready Date 07/04/82	<sup>27</sup> TD 4031	<sup>28</sup> PBTD 3890	<sup>29</sup> Perforations 3899-3976	<sup>30</sup> DHC, DC, MC
<sup>31</sup> Hole Size 12-1/4"	<sup>32</sup> Casing & Tubing Size 8-5/8" CSG	<sup>33</sup> Depth Set 1166'		<sup>34</sup> Sacks Cement 575 SX	
7-7/8"	5-1/2" CSG	4031'		680 SX	
				TEMP SVY - TOC @ 968'	
2-3/8 TBG		3890'			

VI. Well Test Data

<sup>35</sup> Date New Oil	<sup>36</sup> Gas Delivery Date	<sup>37</sup> Test Date	<sup>38</sup> Test Length	<sup>39</sup> Tbg. Pressure	<sup>40</sup> Csg. Pressure
<sup>41</sup> Choke Size	<sup>42</sup> Oil	<sup>43</sup> Water	<sup>44</sup> Gas	<sup>45</sup> AOF	<sup>46</sup> Test Method

<sup>47</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.  
Signature: *Richard Lauderdale*

Printed name:  
RICHARD LAUDERDALE

Title:  
PRODUCTION ENGINEER

Date: 05/19/1999

Phone: 915/683-0559

**OIL CONSERVATION DIVISION**  
Approved by:  
  
Title:  
  
Approval Date:

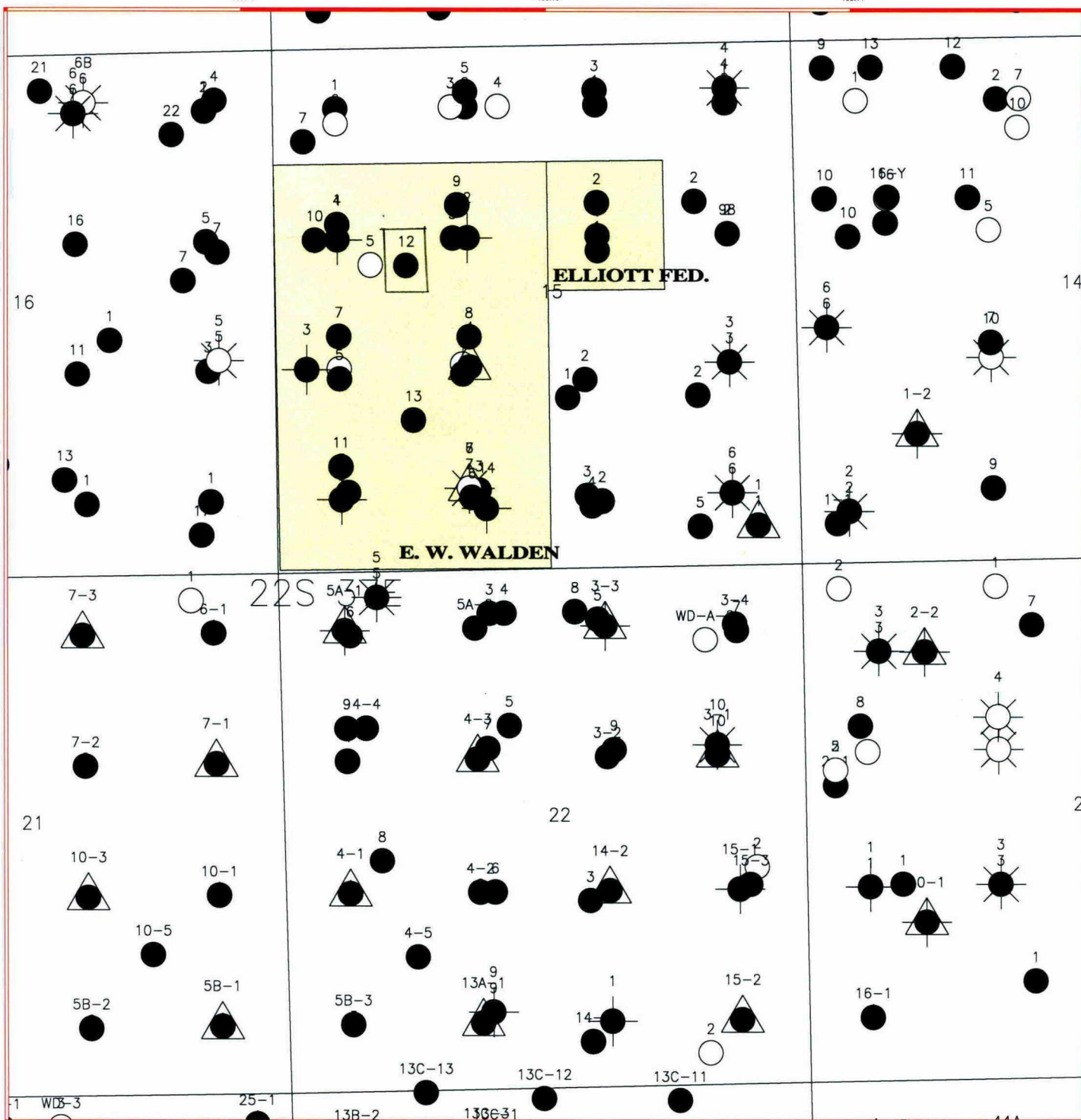
<sup>48</sup> If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature	Printed Name	Title	Date
-----------------------------	--------------	-------	------

-103.16

-103.15

-103.14



# Legend

- Oil Well
- Gas Well
- Unit Injector
- Plugged & Abandoned
- Temporarily Abandoned - Oil
- Dry Hole

Acres/Acreage

Walden.gpt



**Anadarko**  
Petroleum Corporation

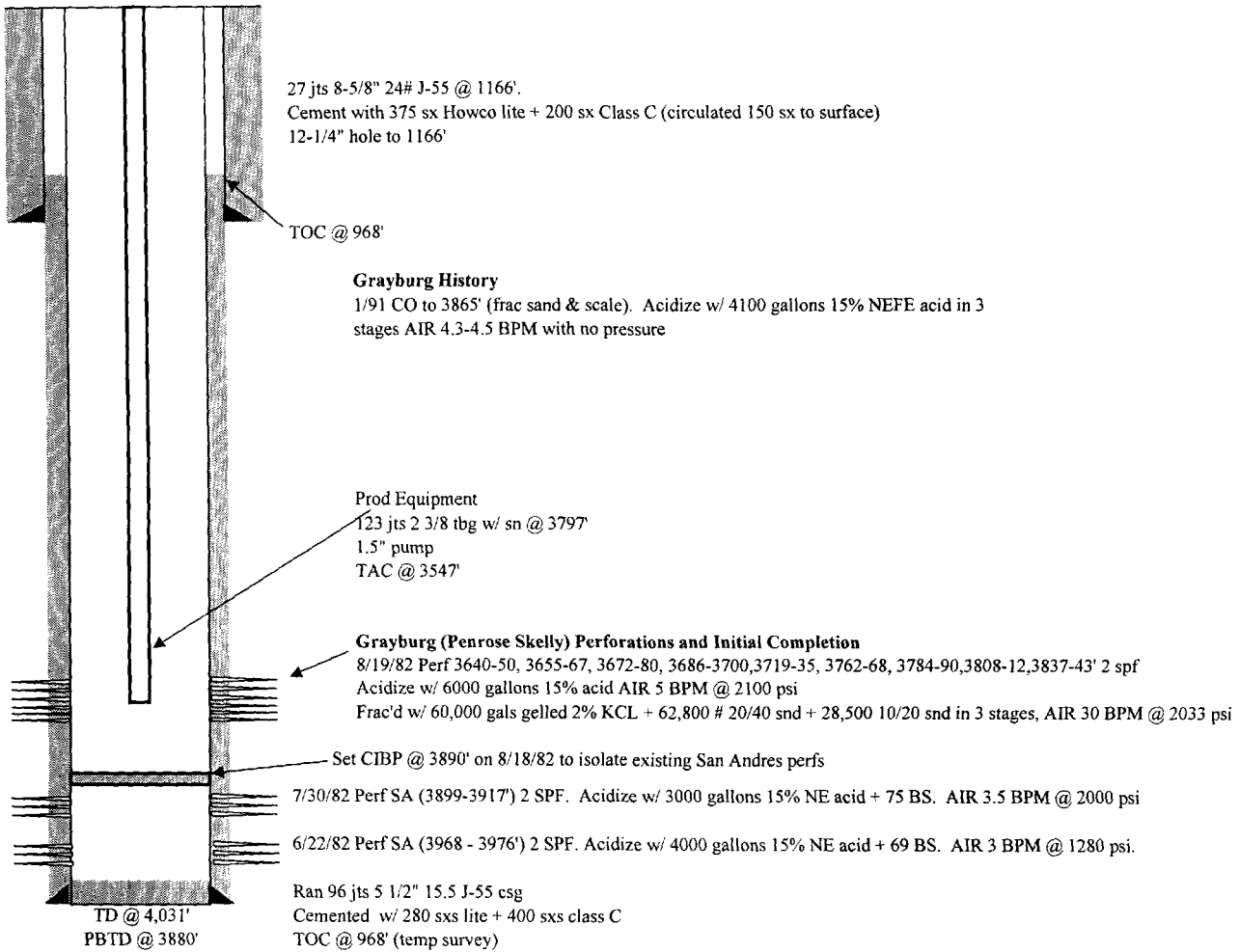
## E. W. WALDEN LEASE

Lea County, New Mexico

Date: 4/7/99 Scale: 1" = 2000'  
 Engineer: R. Lauderdale Engineering  
 File: ewwalden.gpt Drawn By: KP  
 Project: NMEX wsidentb.ppt  
 Prospect: E W WALDEN printer - 18 x 24P

## E.W. Walden #12

Penrose Skelly (Grayburg) Oil Well  
2250' FNL & 1350' FWL, Sec. 15, T22S, R37E, Lea County, New Mexico  
Spudded 5/30/82



709 W. INDIANA  
MIDLAND, TEXAS 79701  
PHONE 683-4521

## RESULT OF WATER ANALYSES

REL 5/19/99

LABORATORY NO. 1185451

TO: Mr. Mike Bridges  
P.O. Box 2497, Midland, Texas

SAMPLE RECEIVED As listed

RESULTS REPORTED 12-5-85

COMPANY Anadarko Production Company LEASE As listed

COMPANY \_\_\_\_\_ LEASE \_\_\_\_\_  
FIELD OR POOL \_\_\_\_\_ 1. Penrose Skelly 2. Eunice, South

SECTION \_\_\_\_\_ BLOCK \_\_\_\_\_ SURVEY \_\_\_\_\_ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Grayburg water - taken from E. W. Walden #12 9-19-85

NO. 2 San Andres water - taken from Hugh #13. 11-26-85

NO. 3

NO. 4

## REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0163	1.0114		
pH When Sampled				
pH When Received	7.59	7.02		
Bicarbonate as HCO <sub>3</sub>	2,367	2,245		
Supersaturation as CaCO <sub>3</sub>				
Undersaturation as CaCO <sub>3</sub>				
Total Hardness as CaCO <sub>3</sub>	780	1,475		
Calcium as Ca	92	296		
Magnesium as Mg	134	179		
Sodium and/or Potassium	5,706	3,989		
Sulfate as SO <sub>4</sub>	30	236		
Chloride as Cl	7,952	5,717		
Iron as Fe	2.8	0.04		
Barium as Ba	0	0		
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	16,281	12,661		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	350	1,250		
Resistivity, ohms/m at 77° F.	0.510	0.540		
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

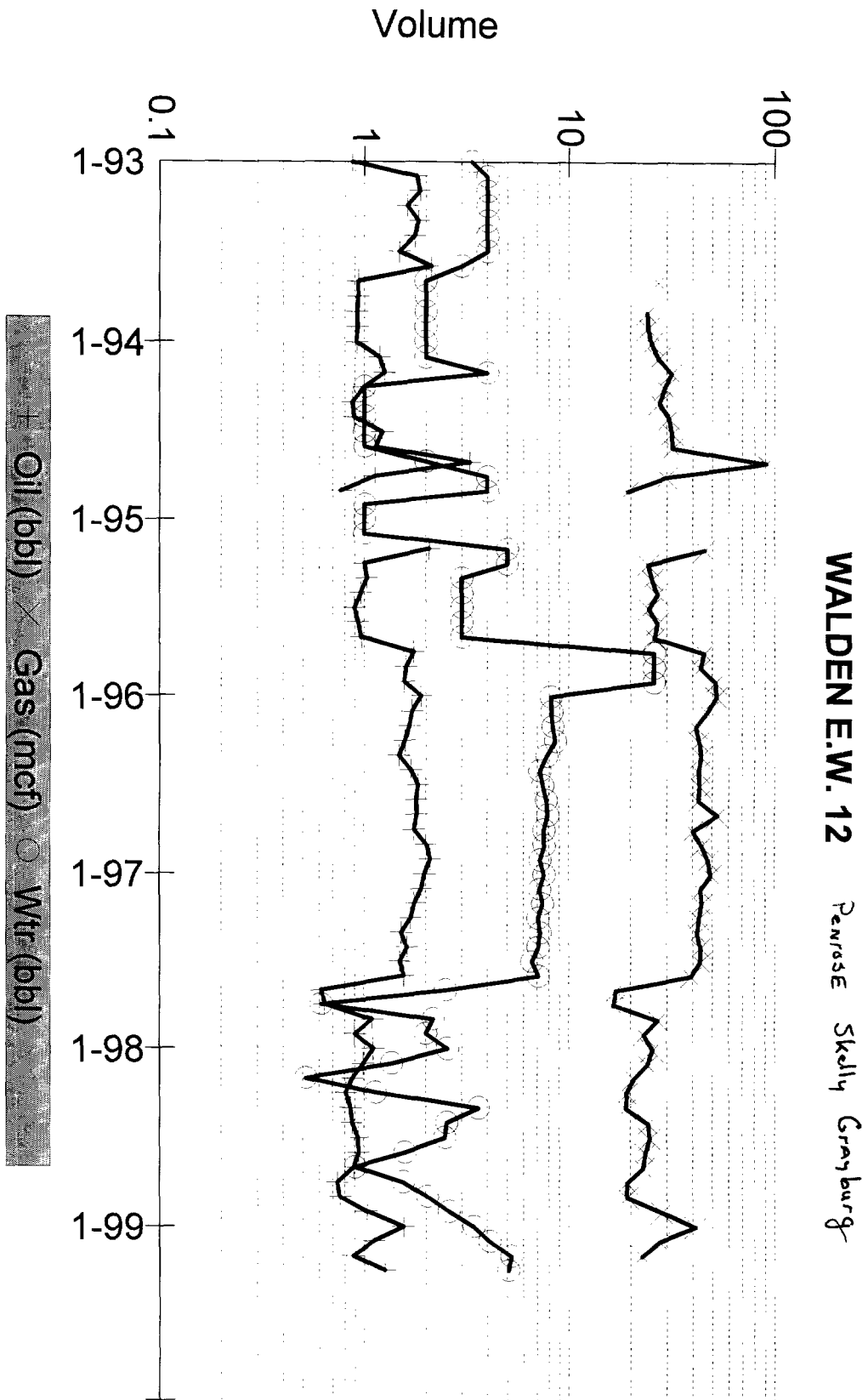
Additional Determinations And Remarks A careful comparison of the above results clearly reveals no evidence of any incompatibility between these two waters.

Form No. 3

By \_\_\_\_\_

cc: Mr. Dan Kernaghan, Midland

Waylan C. Martin, M. A.



Oil	_____
Gas	_____
Water	_____
Wells	_____

Field: PENROSE SKELLY  
 Lease: E W WALDEN | Well #12  
 Operator: ANADARKO PETROLEUM CORPORATION  
 Production Rate vs Time  
 For the Period 01/1982 to 12/1998 | API: 3002527560000

BBI/Day or Mcf/Day

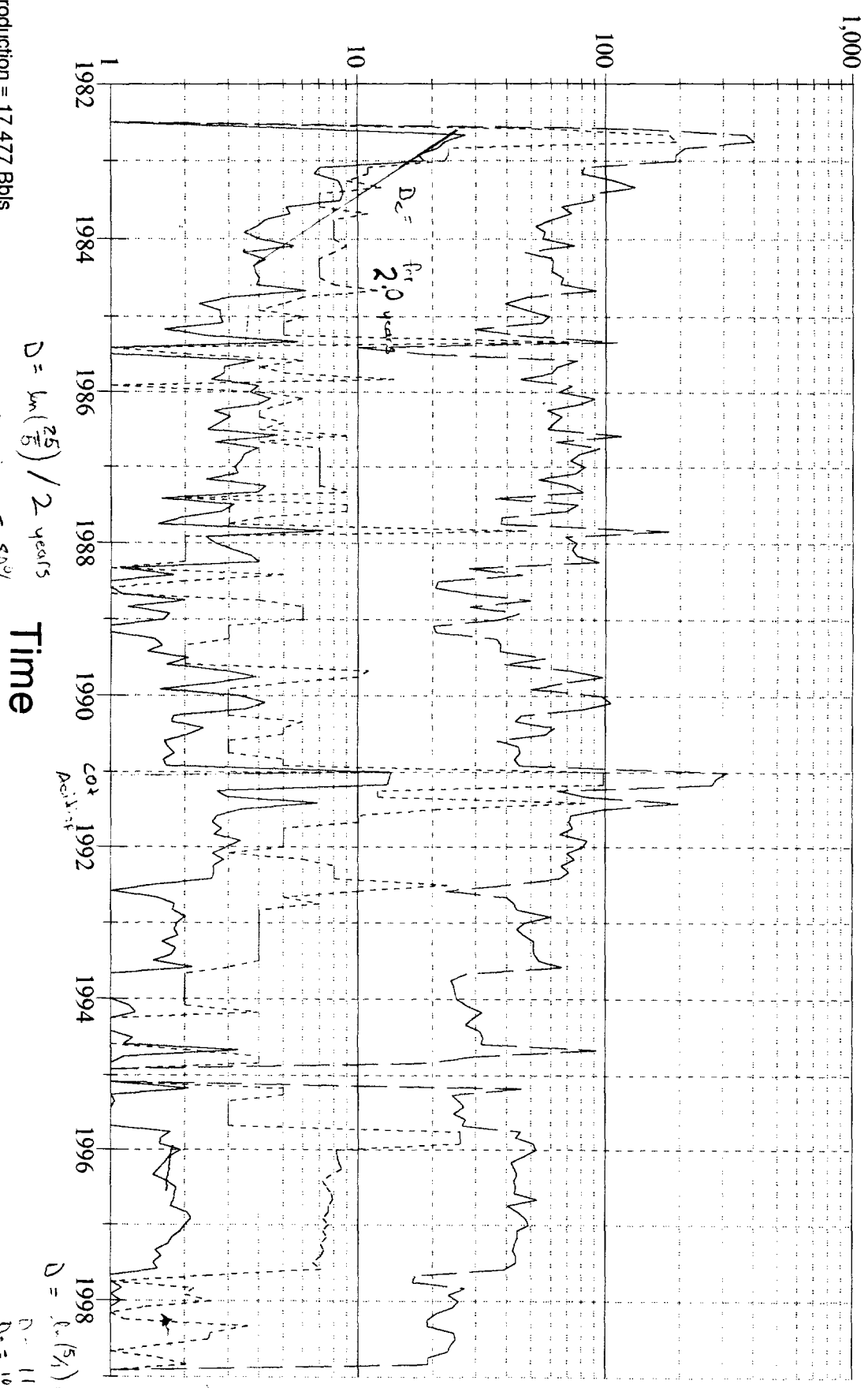


Exhibit 5

Reported Oil Production = 17,477 Bbls  
 Reported Gas Production = 351,508 Mcf  
 Reported Water Production = 58,736 Bbls

$D = \ln\left(\frac{25}{5}\right) / 2 \text{ years}$   
 $D_{\text{decline}} = 50\%$   
 $D_c = 55\%$

Time

Plot Displays Daily Averages  
 Copyright (C) 1999 by Petroleum Information/Dwights LLC



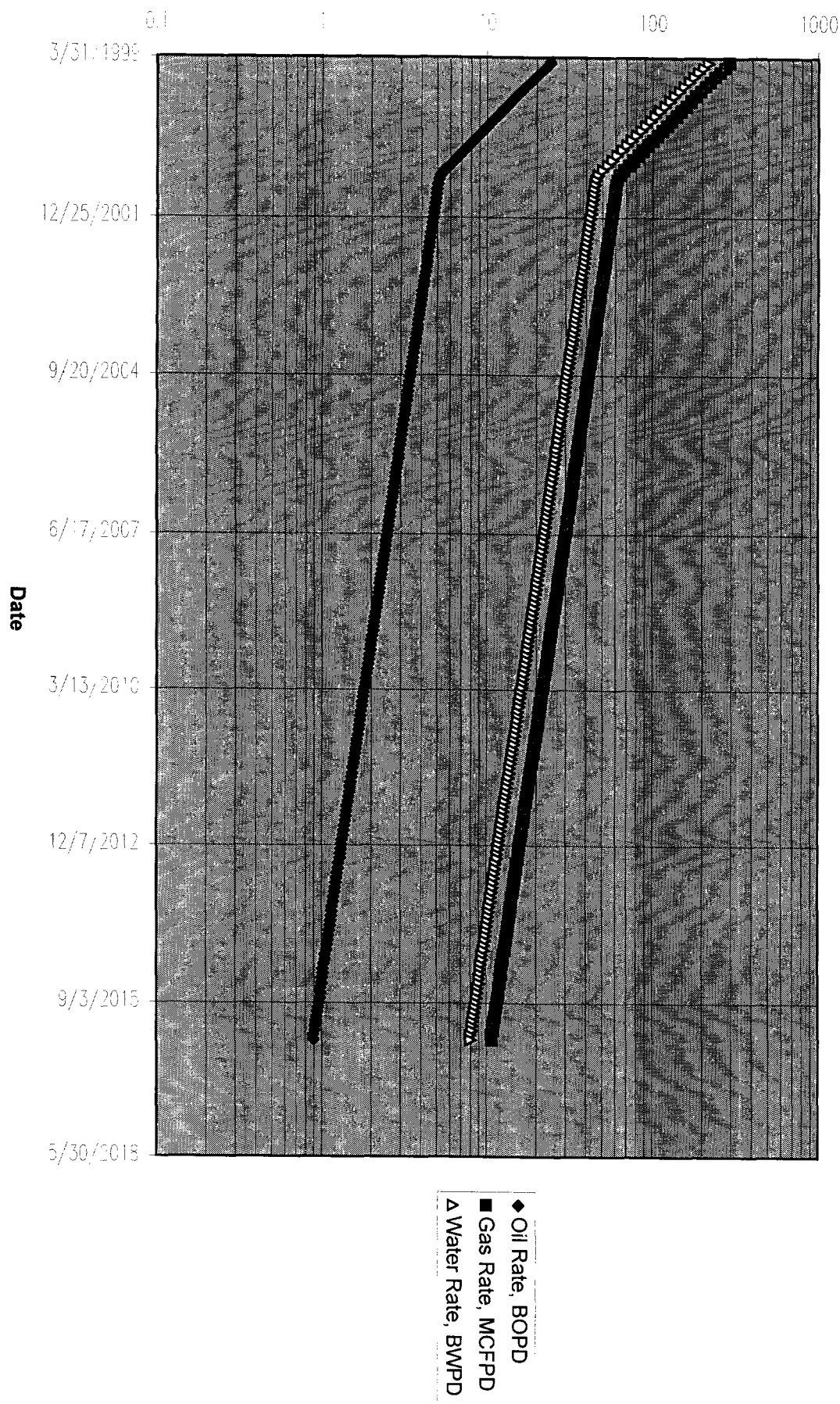
San Andres History in EW Walden #12

perfs	3968-76				
	Oil Rate	Water Rate	Gas Rate		
7/8/1982	0	190	11		
7/9/1982	0	192	19		
7/10/1982	0	197	23		
7/11/1982	2	190	25		
7/12/1982	0	190	18		
7/13/1982	NO Test				
7/14/1982	NO Test				
7/15/1982	NO Test				
7/16/1982	27	154	44		
7/17/1982	47	217	NA		
7/18/1982	17	86	NA		
7/19/1982	13	220	NA		
7/20/1982	64	80	NA		
7/21/1982	NO Test		NA		
7/22/1982	25	260	NA		
7/23/1982	34	208	NA		
7/24/1982	22	178	NA		
7/25/1982	19	169	NA		
7/26/1982	17	164	NA		
7/27/1982	15	161	NA		
7/28/1982	14	162	NA		
7/30/1982	Set RBP @ 3960' to test Upper SA				

perfs	3899-3917				
	Oil Rate	Water Rate	Gas Rate		
8/7/1982	5	205	NA		
8/8/1982	5	220	NA		
8/9/1982	9	135	NA		
8/10/1982	10	163	NA		
8/11/1982	NO Test		NA		
8/12/1982	3	141	NA		
8/13/1982	15	141	NA		
8/14/1982	10	50	NA		
8/15/1982	10	50	NA		
8/16/1982	NO Test		NA		
8/17/1982	9	131	NA		
8/18/1982	10	140	NA		

8/18/1982 Set CIBP above San Andres perforations and this well has been Grayburg producer since that time.

# **EW Walden #12 Projected San Andres Production** Based on Grayburg Analogy in well





# COLEMAN PETROLEUM ENGINEERING COMPANY

PHONE EXPRESS 3-3813  
611 GRIMES  
P O BOX 1829  
HOBBS, NEW MEXICO

## BOTTOM HOLE PRESSURE RECORD

OPERATOR ANADARKO PRODUCTION COMPANY  
FIELD SOUTH EUNICE FORMATION SAN ANDRES  
LEASE WORTHAM C WELL No. 2  
COUNTY LEA STATE NEW MEXICO  
DATE 1-23-71 TIME 11:00 AM  
Status SHUT IN Test depth 4200'  
Time S. I. 8 DAYS Last test date INITIAL  
Tub Pres. 30 BHP last test -  
Cas. Pres. - BHP change -  
Elev. 3353' DF Fluid top 1971'  
Datum (-847') Water top 4000'  
Temp. @ 104 OF Run by WEAVER  
Cal. No. A2419N Chart No. 1

Depth	Pressure	Gradient
0	30	-
1000	82	.052
2000	142	.060
3000	467	.325
4000	794	.327
4200	880	.430

