

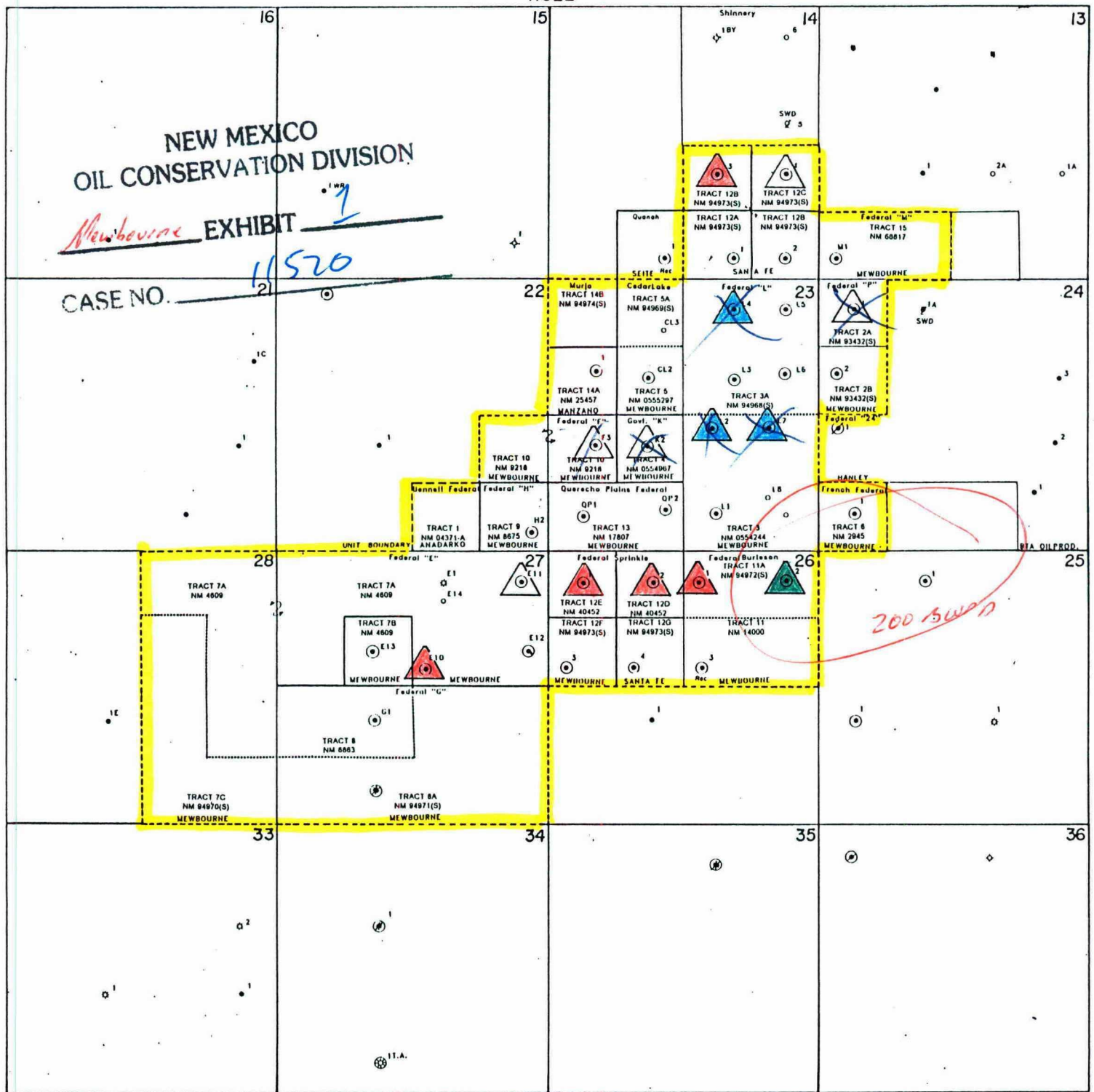
R32E

# NEW MEXICO OIL CONSERVATION DIVISION




*Mewbourne* EXHIBIT 1

CASE NO. 11520

T  
I  
S



0' 500' 1000' 2000' 3200'

-  Thief Zone Injectors
-  Dual Injector B. S./Queen
-  Completed Step-Rate Tests

Revised 7-28-95  
Revised 8-11-93  
Revised 8-10-93  
Revised 5-25-93  
Revised 11-30-92

Legend  
(S) Denotes Segregated Lease,  
Effective Date 10-1-94

MOC	MEWBOURNE OIL CO. TYLER, TEXAS
QUERECHO PLAINS LEA COUNTY, NEW MEXICO	
QUERECHO PLAINS BONE SPRING SAND UNIT	
EXHIBIT "A" UNIT AGREEMENT 2,400 ACRE UNIT	
KM 9-91	SH 6-3-92

Proposal For 2000 psi Surface Injection Pressure  
(Submitted in Case No. 10762)

1. While testing injectivity of Bone Spring in the Federal E #11 and Government K #2, a very heavy (.51 psi/ft.) water was injected as a source. While keeping the surface pressure @ a maximum of 1650 psi per Order R-9737, a gradient of .70 was achieved.

$$\text{Gradient} = \frac{1650 + 8500' * .51}{8500'} = .70$$

2. All injection was contained to the 1st Bone Spring Sand during these tests as evidenced by injection profile logs run in both wells.
3. (The average frac gradient for the Querecho Plains Bone Spring is equal to .74 as determined by the ISIP of 17 fracture stimulation jobs which Mewbourne pumped at the field.)
4. A significantly less heavy (.45 psi/ft.) water is proposed for injection water during full flood operations.
5. As a result of the less heavy water, a 2000 psi surface pressure will generate a gradient of .69 and should result in all injection staying contained to the unitized formation.

$$\text{Gradient} = \frac{2000 + 8500' * .45}{8500'} = .69$$

---

Proposal for 2320 psi Surface Injection Pressure  
(Case No. 11520)

- a. Average of 5 steprate tests = 2320 psi.
- b. Water gradient at the time of testing = .46 psi/ft.
- c. Frac Gradient =  $\frac{2320 + 8500' * .46}{8500'}$  = .73 psi/ft

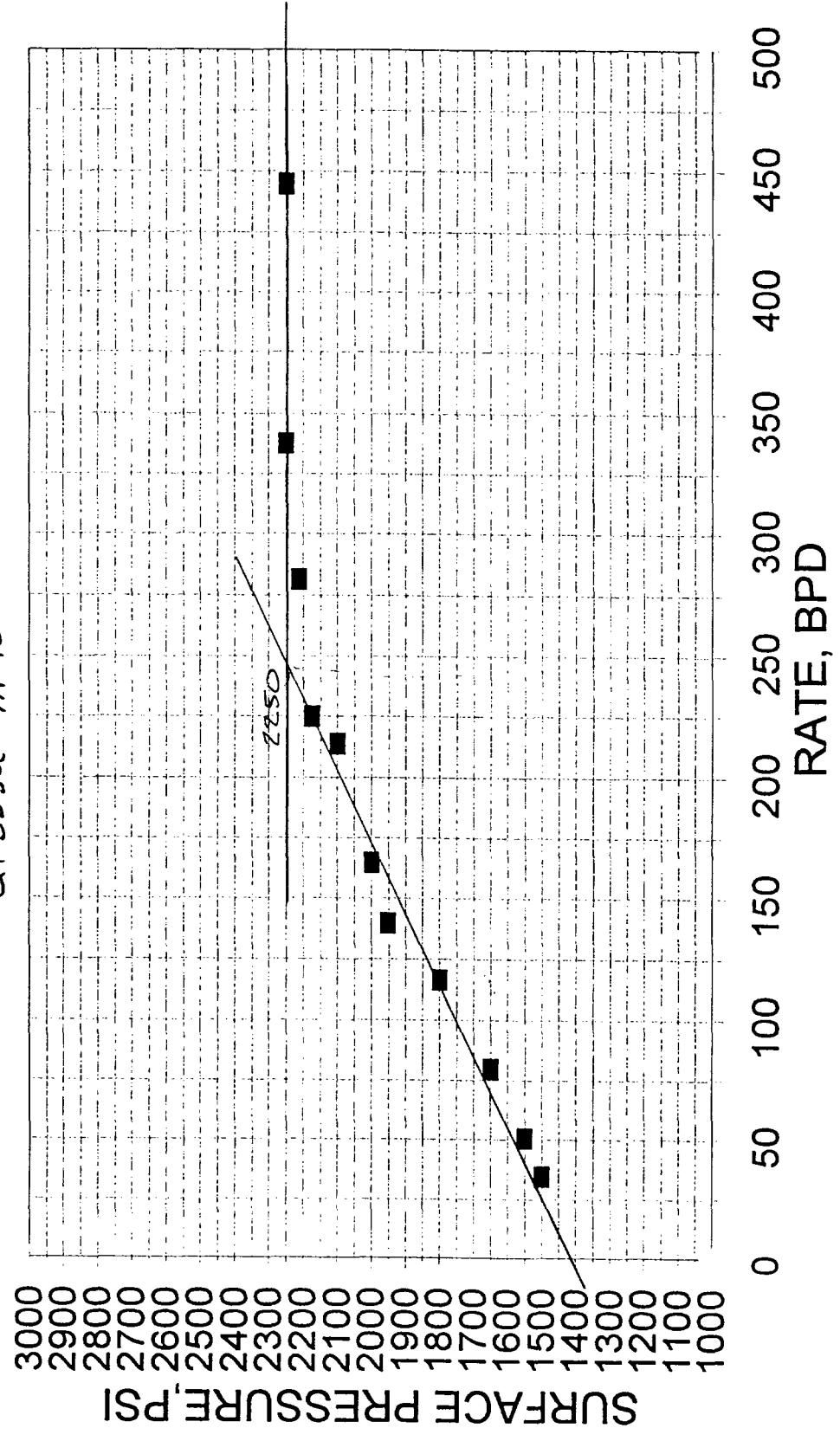
NOTE: This agrees very well with the ISIP of 17 frac jobs pumped at the field. (See item 3 above)

*original Exhibit #26*

NEW MEXICO  
OIL CONSERVATION DIVISION  
*Mewbourne* EXHIBIT 2  
CASE NO 11520

# E-10 STEP RATE TEST

QPBSSU 7A-10



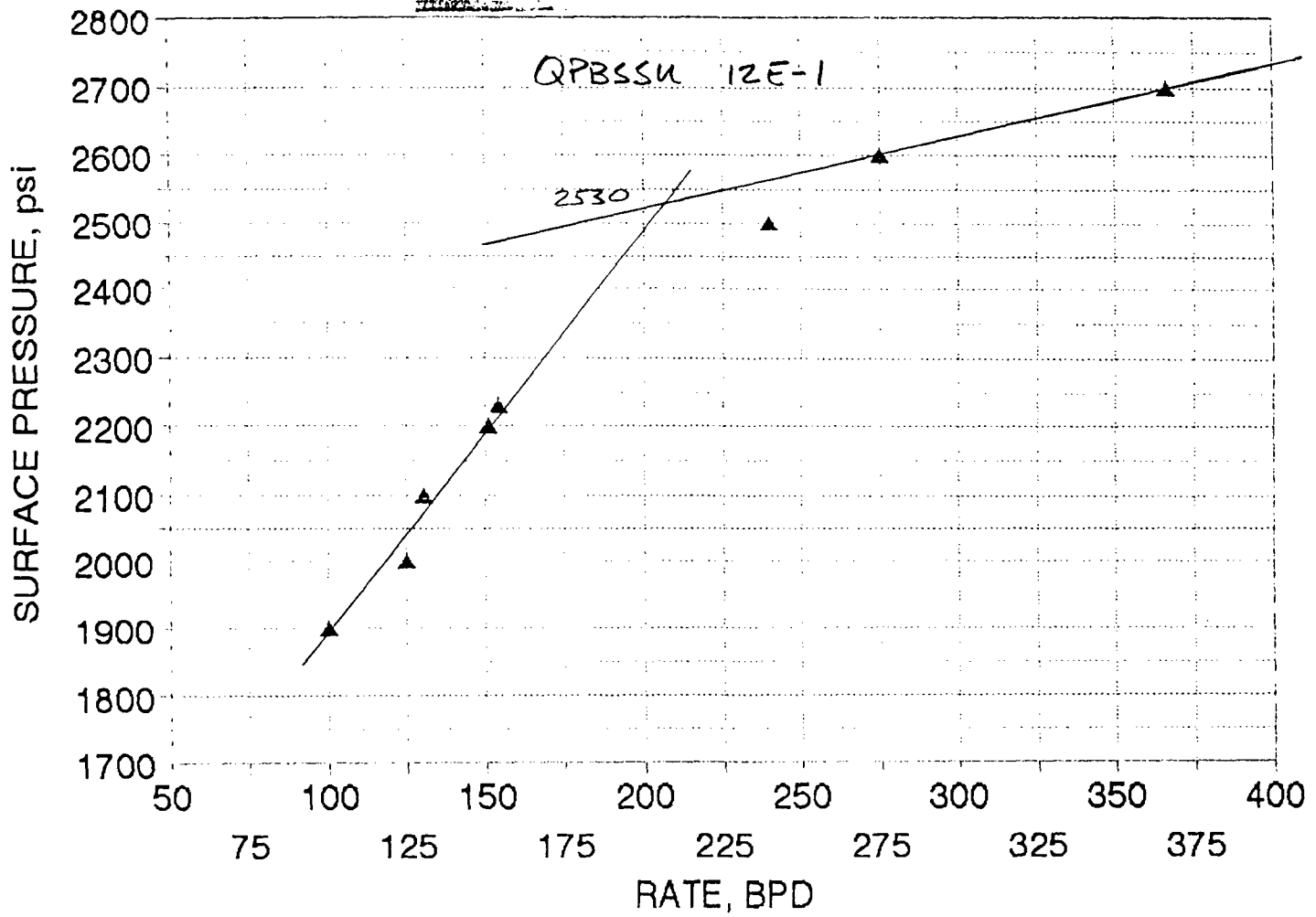
NEW MEXICO  
OIL CONSERVATION DIVISION

EXHIBIT 3

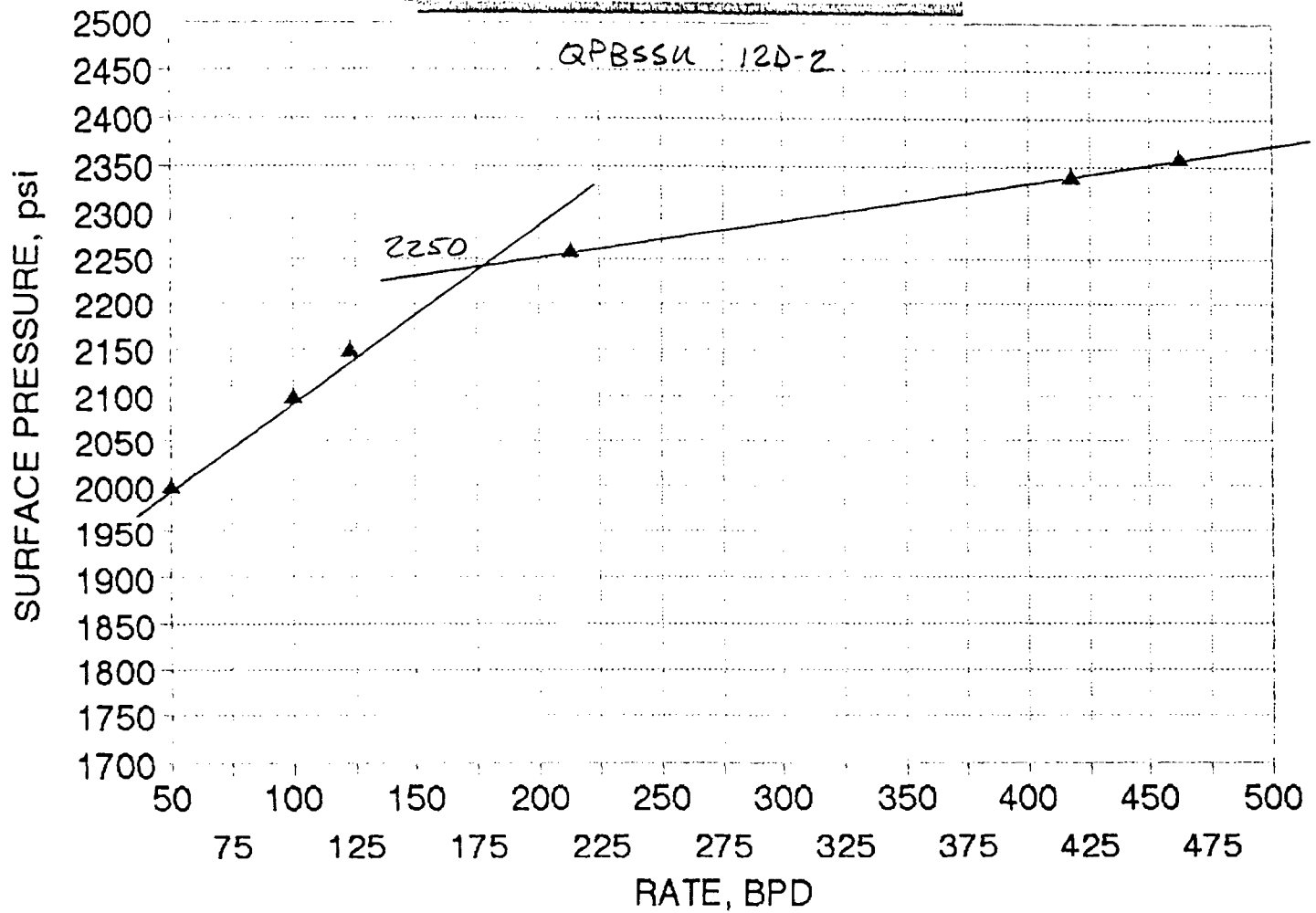
CASE NO. 11520

STEP RATE TEST  
SPRINKLE FEDERAL #7

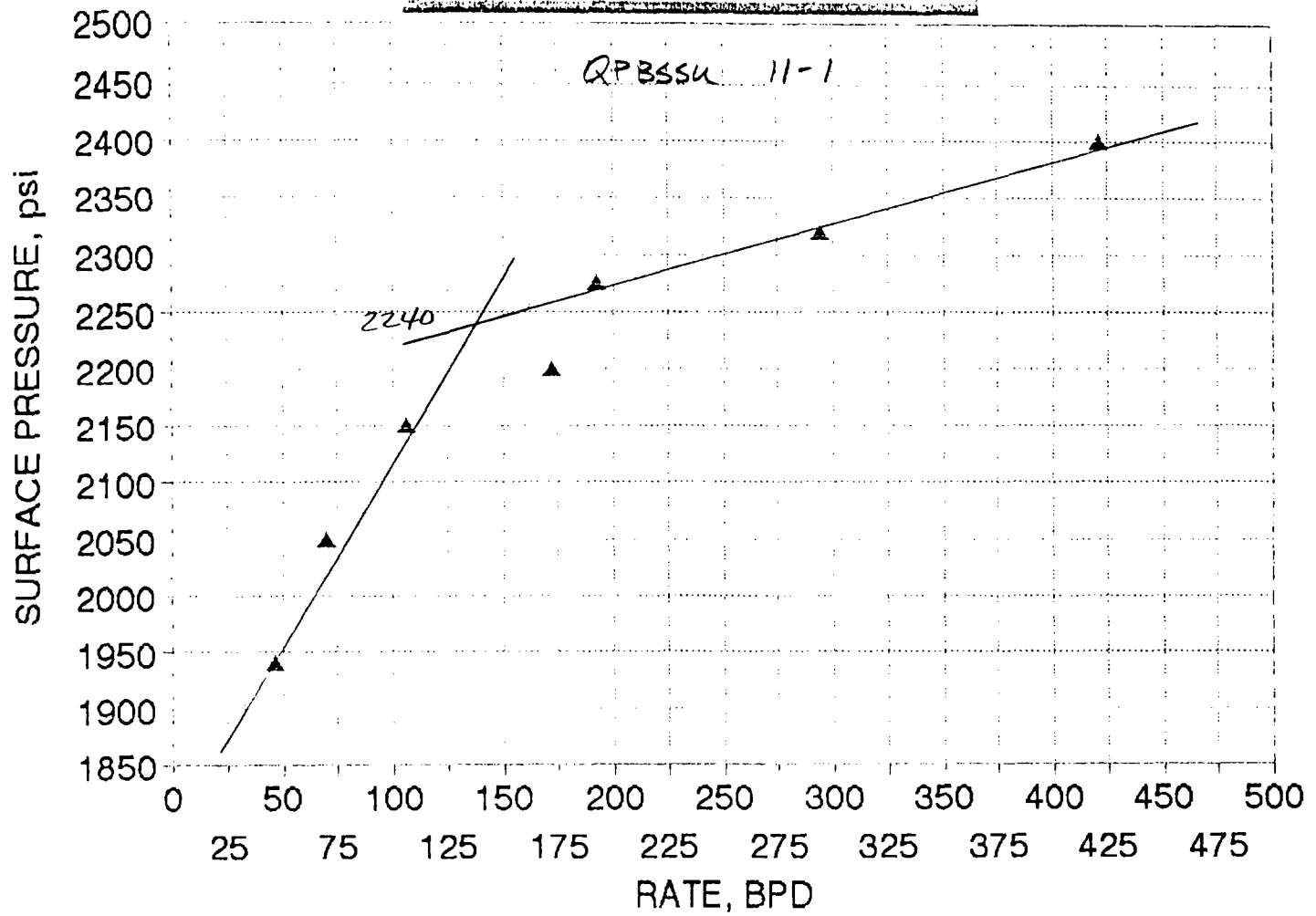
RECEIVED



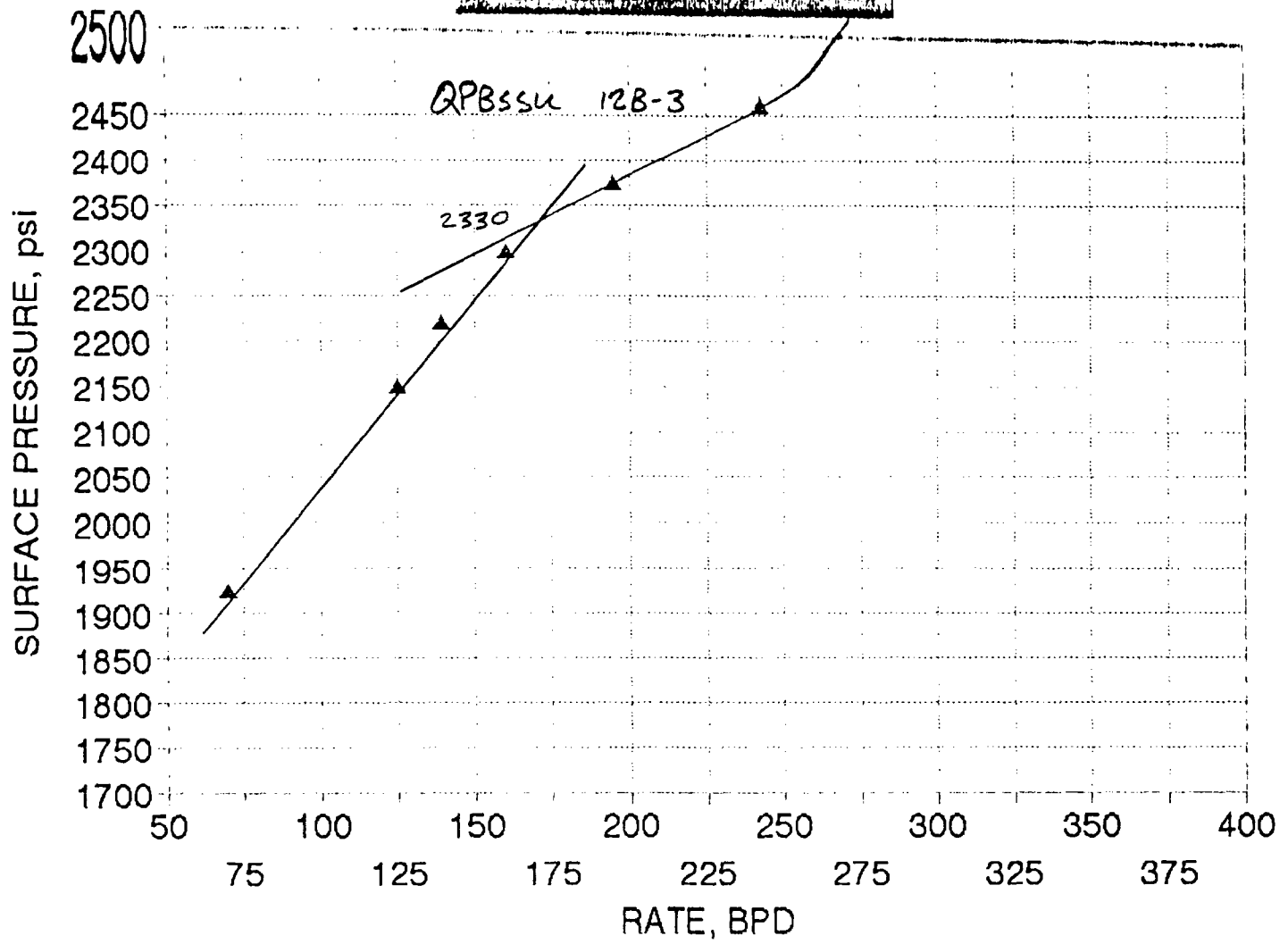
STEP RATE TEST  
SPRINKLE FEDERAL #2



STEP RATE TEST  
BURLESON FEDERAL #1



STEP RATE TEST  
SHINNERY FED. #3



BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION

APPLICATION OF MEWBOURNE OIL  
COMPANY TO INCREASE INJECTION  
PRESSURE, LEA COUNTY, NEW MEXICO

Case No. 11520

AFFIDAVIT REGARDING NOTICE

STATE OF NEW MEXICO       )  
COUNTY OF SANTA FE       ) ss.

Kevin Mayes, being duly sworn upon his oath, deposes and states:

1. I am over the age of 18 and have personal knowledge of the matters stated herein.

2. I am an employee of Applicant.

3. Applicant has conducted a good faith, diligent effort to find the names and correct addresses of the interest owners entitled to receive notice of the Application filed herein.

4. Notice of the Application was provided to the interest owners at their correct addresses by certified mail. Copies of the notice letters and certified return receipts are attached hereto as Exhibit A.

5. Applicant has complied with the notice provisions of Form C-108 and Division Rule 1207.

Kevin Mayes  
Kevin Mayes

SUBSCRIBED AND SWORN TO before me this 15<sup>th</sup> day of May, 1996,  
by Kevin Mayes.

Kenny Radacki

My Commission Expires:

July 27, 1998

NEW MEXICO  
OIL CONSERVATION DIVISION

EXHIBIT 4

CASE NO. 11520



**MEWBOURNE OIL COMPANY**

P.O. BOX 7698

TYLER, TEXAS 75711

903 - 561-2900

FAX 903 - 561-1870

April 4, 1996

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**  
**Z 077 781 631**

Bureau of Land Management  
P. O. Box 1397  
Roswell, New Mexico 88220


**Re: Application for Increased Surface Injection Pressure**  
**Querecho Plains Bone Spring Sand Unit Waterflood Project**  
**Lea County, New Mexico**

Gentlemen:

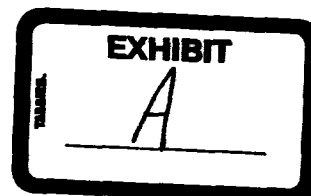
Mewbourne Oil Company on this date made application to increase the surface injection pressure at the referenced project. This application will be heard May 2, 1996, at the New Mexico Oil Conservation Division office in Santa Fe, New Mexico. Any objections to the application should be filed with the Division, 2040 S. Pacheco, Santa Fe, New Mexico 87505 within fifteen (15) days.

Should you have any questions or comments, please call me or Monty Whetstone at (903) 561-2900.

Sincerely,

  
Kevin Mayes, P.E.  
Project Engineer

KM/gt



**MEWBOURNE OIL COMPANY**

P.O. BOX 7698  
TYLER, TEXAS 75711  
903 - 561-2900  
FAX 903 - 561-1870

April 4, 1996

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**  
**Z 077 781 630**

New Mexico Oil Conservation Division  
P. O. Box 1980  
Hobbs, New Mexico 88240

Attention: Jerry Sexton

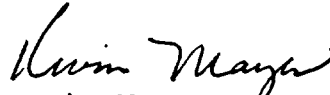
Re: Application for Increased Surface Injection Pressure  
Querecho Plains Bone Spring Sand Unit Waterflood Project  
Lea County, New Mexico

Gentlemen:

Mewbourne Oil Company on this date made application to increase the surface injection pressure at the referenced project. This application will be heard May 2, 1996, at the New Mexico Oil Conservation Division office in Santa Fe, New Mexico. Any objections to the application should be filed with the Division, 2040 S. Pacheco, Santa Fe, New Mexico 87505 within fifteen (15) days.

Should you have any questions or comments, please call me or Monty Whetstone at (903) 561-2900.

Sincerely,



Kevin Mayes, P.E.  
Project Engineer

KM/gt

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TYLER, TEXAS 75711  
903 - 561-2900  
FAX 903 - 561-1870

April 4, 1996

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**  
**Z 079 526 655**

Santa Fe Energy  
500 West Illinois, Suite 500  
Midland, Texas 79701

Attention: James Blount


Re: Application for Increased Surface Injection Pressure  
Querecho Plains Bone Spring Sand Unit Waterflood Project  
Lea County, New Mexico

Gentlemen:

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Project Engineer

KM/gt

**MEWBOURNE OIL COMPANY**

P.O. BOX 7698  
TYLER, TEXAS 75711  
903 - 561-2900  
FAX 903 - 561-1870

April 4, 1996

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**  
**Z 079 526 654**

Anadarko Petroleum Corporation  
P. O. Drawer 1330  
Houston, Texas 77251-1330

Attention: Richard Rowe

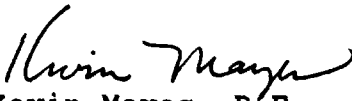
**Re: Application for Increased Surface Injection Pressure**  
**Querecho Plains Bone Spring Sand Unit Waterflood Project**  
**Lea County, New Mexico**

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Sincerely,

  
Kevin Mayes, P.E.  
Project Engineer

KM/gt

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P.O. BOX 7698  
TYLER, TEXAS 75711  
903 - 561-2900  
FAX 903 - 561-1870

April 4, 1996

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**  
**Z 079 526 653**

BTA  
104 South Pecos  
Midland, Texas 79701

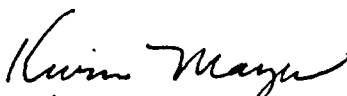
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**Lea County, New Mexico**

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Sincerely,

  
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Project Engineer

KM/gt

**MEWBOURNE OIL COMPANY**

P.O. BOX 7698  
TYLER, TEXAS 75711  
903 - 561-2900  
FAX 903 - 561-1870

April 4, 1996

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**  
**Z 079 526 651**

Yates Petroleum Corporation  
207 South 4th Street  
Artesia, New Mexico 88210


**Re: Application for Increased Surface Injection Pressure**  
**Querecho Plains Bone Spring Sand Unit Waterflood Project**  
**Lea County, New Mexico**

Gentlemen:

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Should you have any questions or comments, please call me or Monty Whetstone at (903) 561-2900.

Sincerely,

  
Kevin Mayes, P.E.  
Project Engineer

KM/gt

**MEWBOURNE OIL COMPANY**

P.O. BOX 7698  
TYLER, TEXAS 75711  
903 - 561-2900  
FAX 903 - 561-1870

April 4, 1996

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**  
**Z 079 526 650**

Meridian Oil, Inc.  
P. O. Box 51810  
Midland, Texas 79710-1810

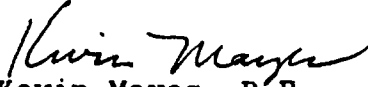
**Re: Application for Increased Surface Injection Pressure**  
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**Lea County, New Mexico**

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Should you have any questions or comments, please call me or Monty Whetstone at (903) 561-2900.

Sincerely,

  
Kevin Mayes, P.E.  
Project Engineer

KM/gt

**MEWBOURNE OIL COMPANY**

P.O. BOX 7698  
TYLER, TEXAS 75711  
903 - 561-2900  
FAX 903 - 561-1870

April 4, 1996

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**  
**Z 079 526 652**

Siete Oil & Gas Corporation  
P. O. Box 2523  
Roswell, New Mexico 88202-2523

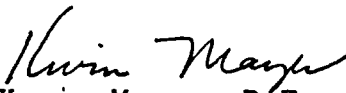
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**Lea County, New Mexico**

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Sincerely,

  
Kevin Mayes, P.E.  
Project Engineer

KM/gt



Is your RETURN ADDRESS completed on the reverse side?

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
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- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

BUREAU OF LAND MGT  
P.O. BOX 1397  
ROSWELL, NM 88220

4a. Article Number

Z 077 781 631

4b. Service Type

- ☐ Registered ☐ Insured  
☒ Certified ☐ COD  
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery

4-8-96

5. Signature (Addressee)

PA

6. Signature (Agent)

Pat Flannery

8. Addressee's Address (Only if requested and fee is paid).

PS Form 3811, December 1991

★U.S. GPO: 1993-352-714

**DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

**SENDER:**

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I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

JERRY SEXTON  
NEW MEX OIL CONSERVATION  
DIVISION  
P.O. BOX 1980  
HOBBS, NM 88240

4a. Article Number

Z 077 781 630

4b. Service Type

- ☐ Registered ☐ Insured  
☒ Certified ☐ COD  
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery

4-8

5. Signature (Addressee)

Jerry Sexton

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991

★U.S. GPO: 1993-352-714

**DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

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I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

JAMES BLOUNT  
SANTA FE ENERGY  
550 W. ILLINOIS, SUITE 1330  
MIDLAND, TX 79701

4a. Article Number

Z 079 526 655

4b. Service Type

- ☐ Registered ☐ Insured  
☒ Certified ☐ COD  
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery

4-15-96

5. Signature (Addressee)

*[Signature]*

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 ★U.S. GPO: 1993-352-714

**DOMESTIC RETURN RECEIPT**

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I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

RICHARD ROWE  
ANADARKO PETR CORP  
P.O. DRAWER 1330  
HOUSTON, TX 77251-1330

4a. Article Number

Z 079 526 654

4b. Service Type

- ☐ Registered ☐ Insured  
☒ Certified ☐ COD  
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery

APR 08 1996

5. Signature (Addressee)

6. Signature (Agent)

*[Signature]*

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 ★U.S. GPO: 1993-352-714

**DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

<b>Is your RETURN ADDRESS completed on the reverse side?</b>	
<b>SENDER:</b> <ul style="list-style-type: none"><li>• Complete items 1 and/or 2 for additional services.</li><li>• Complete items 3, and 4a &amp; b.</li><li>• Print your name and address on the reverse of this form so that we can return this card to you.</li><li>• Attach this form to the front of the mailpiece, or on the back if space does not permit.</li><li>• Write "Return Receipt Requested" on the mailpiece below the article number.</li><li>• The Return Receipt will show to whom the article was delivered and the date delivered.</li></ul>	
I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.	
3. Article Addressed to: <b>BTA 104 SOUTH PECOS MIDLAND, TX 79701</b>	4a. Article Number <b>2 079 526 653</b>
	4b. Service Type <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input checked="" type="checkbox"/> Return Receipt for Merchandise
5. Signature (Addressee)	7. Date of Delivery <b>4-8-96</b>
6. Signature (Agent) <b>[Signature]</b>	8. Addressee's Address (Only if requested and fee is paid)
PS Form 3811, December 1991 ★U.S. GPO: 1993-352-714 <b>DOMESTIC RETURN RECEIPT</b>	

Thank you for using Return Receipt Service.

<b>Is your RETURN ADDRESS completed on the reverse side?</b>	
<b>SENDER:</b> <ul style="list-style-type: none"><li>• Complete items 1 and/or 2 for additional services.</li><li>• Complete items 3, and 4a &amp; b.</li><li>• Print your name and address on the reverse of this form so that we can return this card to you.</li><li>• Attach this form to the front of the mailpiece, or on the back if space does not permit.</li><li>• Write "Return Receipt Requested" on the mailpiece below the article number.</li><li>• The Return Receipt will show to whom the article was delivered and the date delivered.</li></ul>	
I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.	
3. Article Addressed to: <b>YATES PETROLEUM CORP 207 S. 4TH STREET ARTESIA, NEW MEX 88210</b>	4a. Article Number <b>2 079 526 651</b>
	4b. Service Type <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input checked="" type="checkbox"/> Return Receipt for Merchandise
5. Signature (Addressee) <b>[Signature]</b>	7. Date of Delivery <b>4-8-96</b>
6. Signature (Agent) <b>[Signature]</b>	8. Addressee's Address (Only if requested and fee is paid)
PS Form 3811, December 1991 ★U.S. GPO: 1993-352-714 <b>DOMESTIC RETURN RECEIPT</b>	

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- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

**MERIDIAN OIL, INC.**  
**P.O. Box 51810**  
**MIDLAND, TX**  
**79710-1810**

4a. Article Number

**2 079 526 650**

4b. Service Type

- |   |  |
|---|--|
| <input type="checkbox"/> Registered           | <input type="checkbox"/> Insured                                   |
| <input checked="" type="checkbox"/> Certified | <input type="checkbox"/> COD                                       |
| <input type="checkbox"/> Express Mail         | <input checked="" type="checkbox"/> Return Receipt for Merchandise |

7. Date of Delivery

**APR - 8 1996**

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

*W. Wells*

PS Form 3811, December 1991

★U.S. GPO: 1993-352-714

**DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

PS Form 3800, March 1993

Sent to	
SIETE OIL & GAS CORP	
P.O. Box 2533	
State and ZIP Code	
ROSWELL, NM 88202-2533	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	



**Receipt for Certified Mail**  
 No Insurance Coverage Provided  
 Do not use for International Mail  
 (See Reverse)

**2 079 526 652**

NEW MEXICO  
OIL CONSERVATION DIVISION

QPBSSU WATER INJECTION SUMMARY

DECEMBER 1995

EXHIBIT

5

CASE NO.

11520

WELL NAME	DAYS INJ.	DAILY AVG.	MONTH TOTAL	CUMULATIVE TOTAL
BURLESON FED. #1	31	106	3286	163809
BURLESON FED. #2	1	0	0	87982
FEDERAL "E" #10	31	218	6764	147875
FEDERAL "E" #11	31	108	3342	157247
FEDERAL "F" #3	31	81	2502	173906
FEDERAL "L" #2	31	216	6682	184160
FEDERAL "L" #4	31	320	9913	188885
FEDERAL "L" #5	0	ERR	0	55334
FEDERAL "L" #7	31	255	7900	184906
FEDERAL "P" #1	31	160	4952	191531
GOVERNMENT "K" #2	31	274	8494	169300
SHINNERY "14" #3	31	71	2202	137113
SHINNERY "14" #4	31	174	5398	183400
SPRINKLE FED. #1	31	64	1996	156285
SPRINKLE FED. #2	27	198	5357	134733
Average barrels of water injected per day				2263
Total barrels of water injected for month				68788
Total barrels of water injected as of 01/01/96				2334232

SOURCE	01/01/96	12/01/95	
DOUBLE EAGLE	173698	167200	64980
ANADARKO	82240	79882	2358
SANTA FE (SWD)	10362	0	10362
SPRINKLE FED. #4	10186	9810	376
CEDAR LAKE #4			966
QPBSSU			7400
QPQASU BATTERY #1			268
QPQASU BATTERY #2			1604
QPQASU BATTERY #4			1702
QPQASU BATTERY #5			1
TOTAL			90017

*fresh*  
*Dil. prod. water*

8

Wt Avg

1.05  
8.7 PPg  
V = .46  $\frac{m}{fc}$