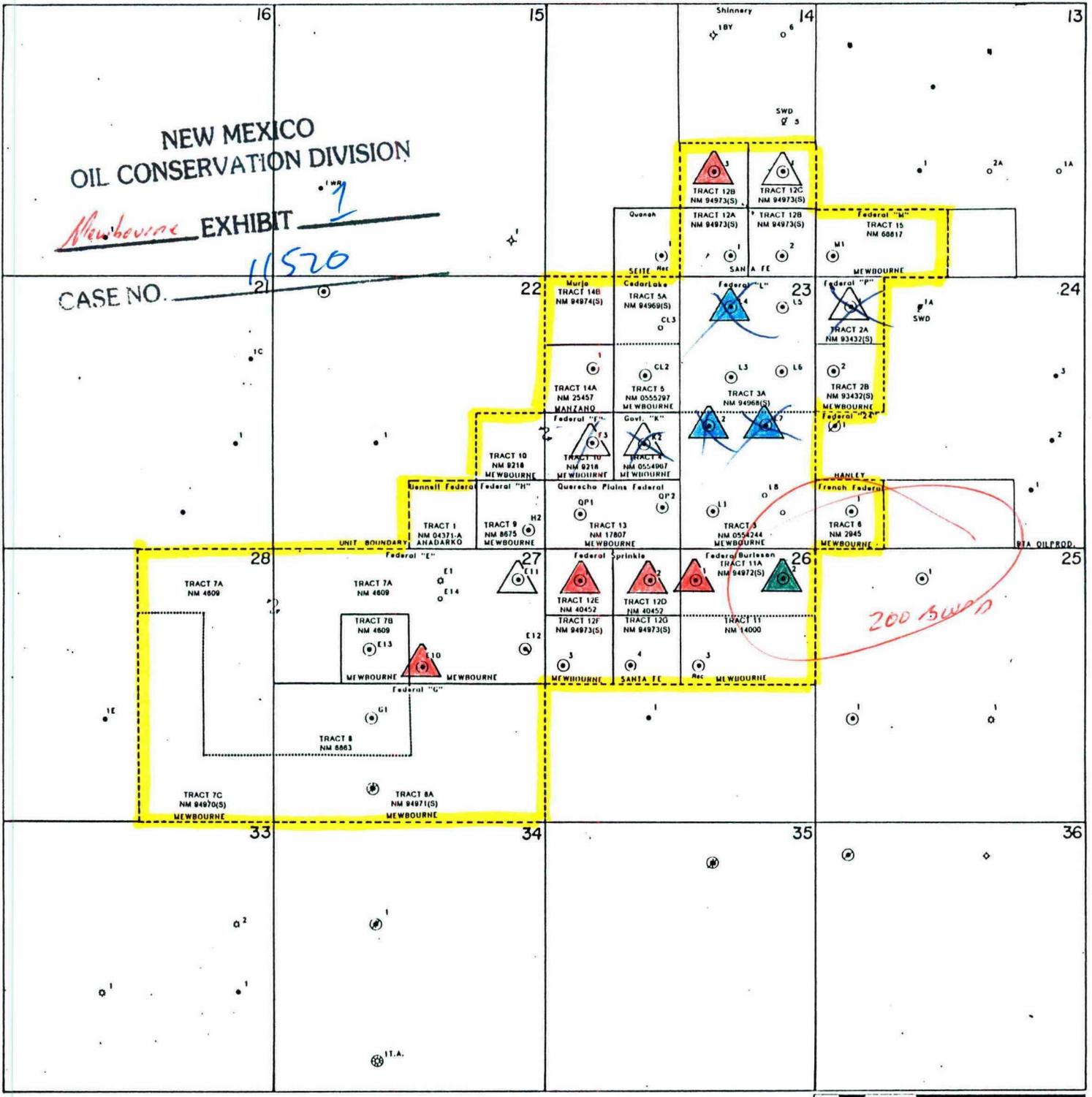


R32E

NEW MEXICO OIL CONSERVATION DIVISION

Mewbourne EXHIBIT 1
CASE NO. 11520

T
I
S



-  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 separate 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

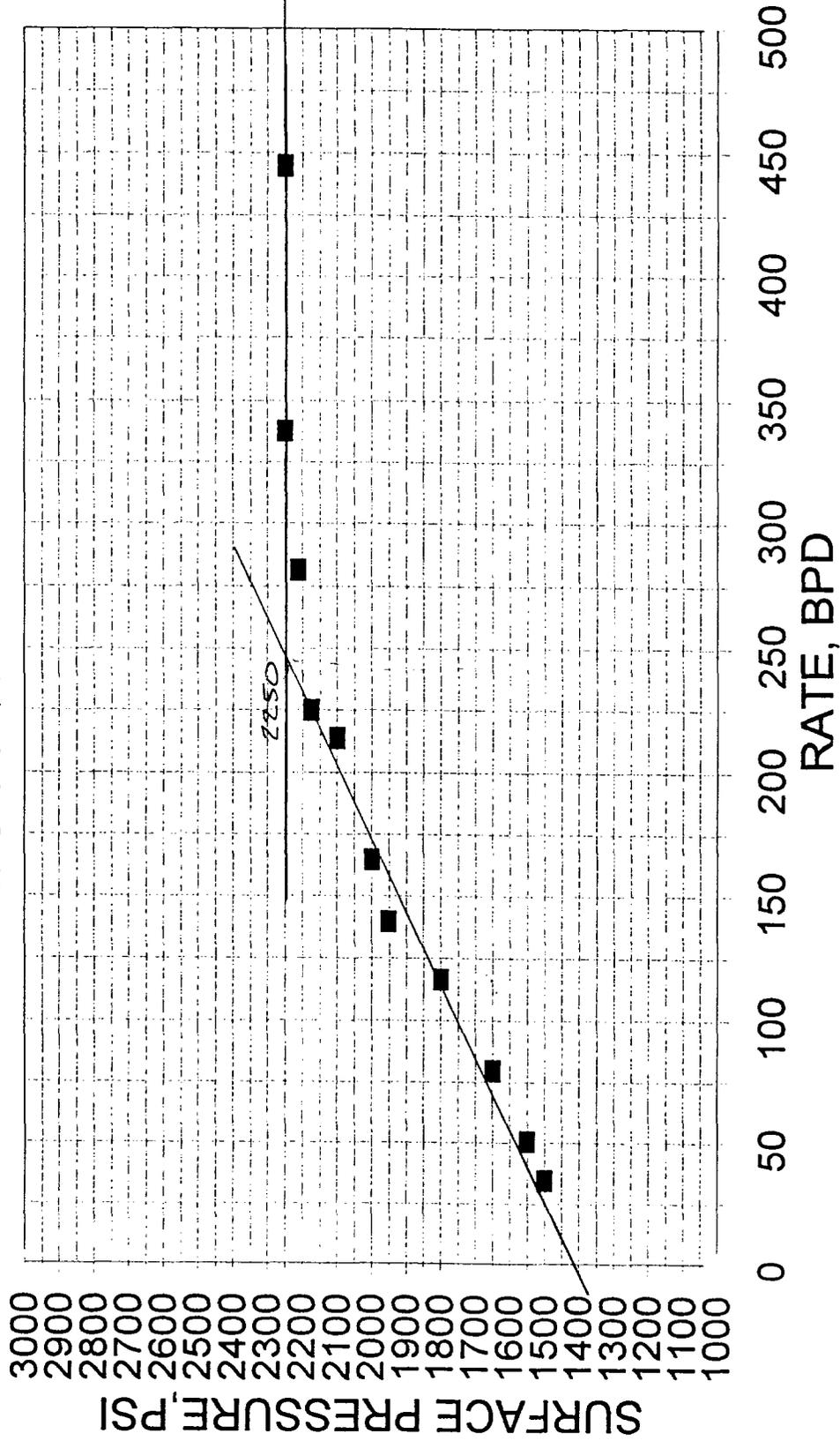
NOTE: This agrees very well with the ISIP of 17 frac jobs pumped at the field. (See item 3 above)

original Exhibit #26

NEW MEXICO
OIL CONSERVATION DIVISION
Mewbourne EXHIBIT 2
CASE NO 11520

E-10 STEP RATE TEST

CRBSSU 7A-10



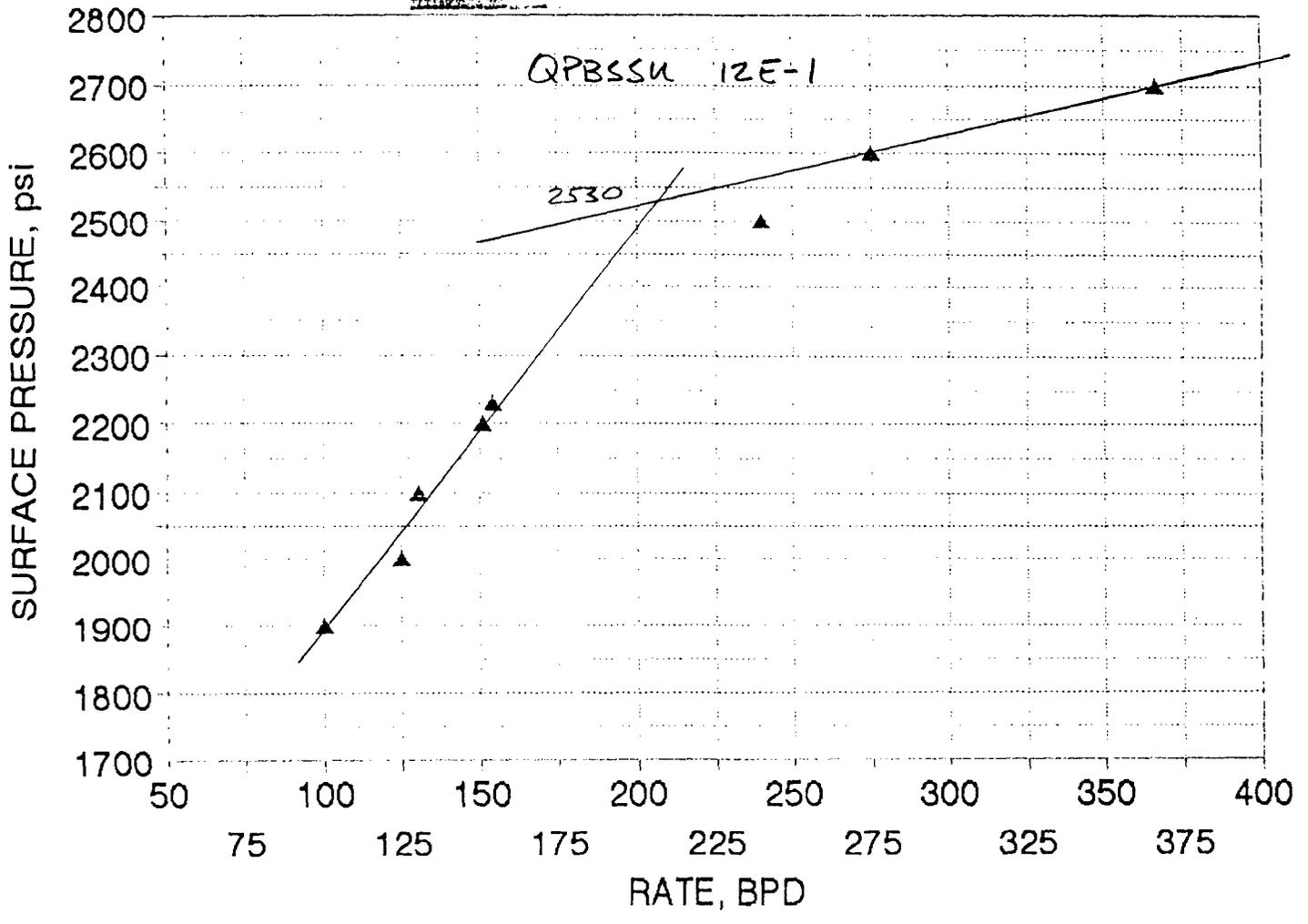
NEW MEXICO
OIL CONSERVATION DIVISION

EXHIBIT 3

CASE NO. 11520

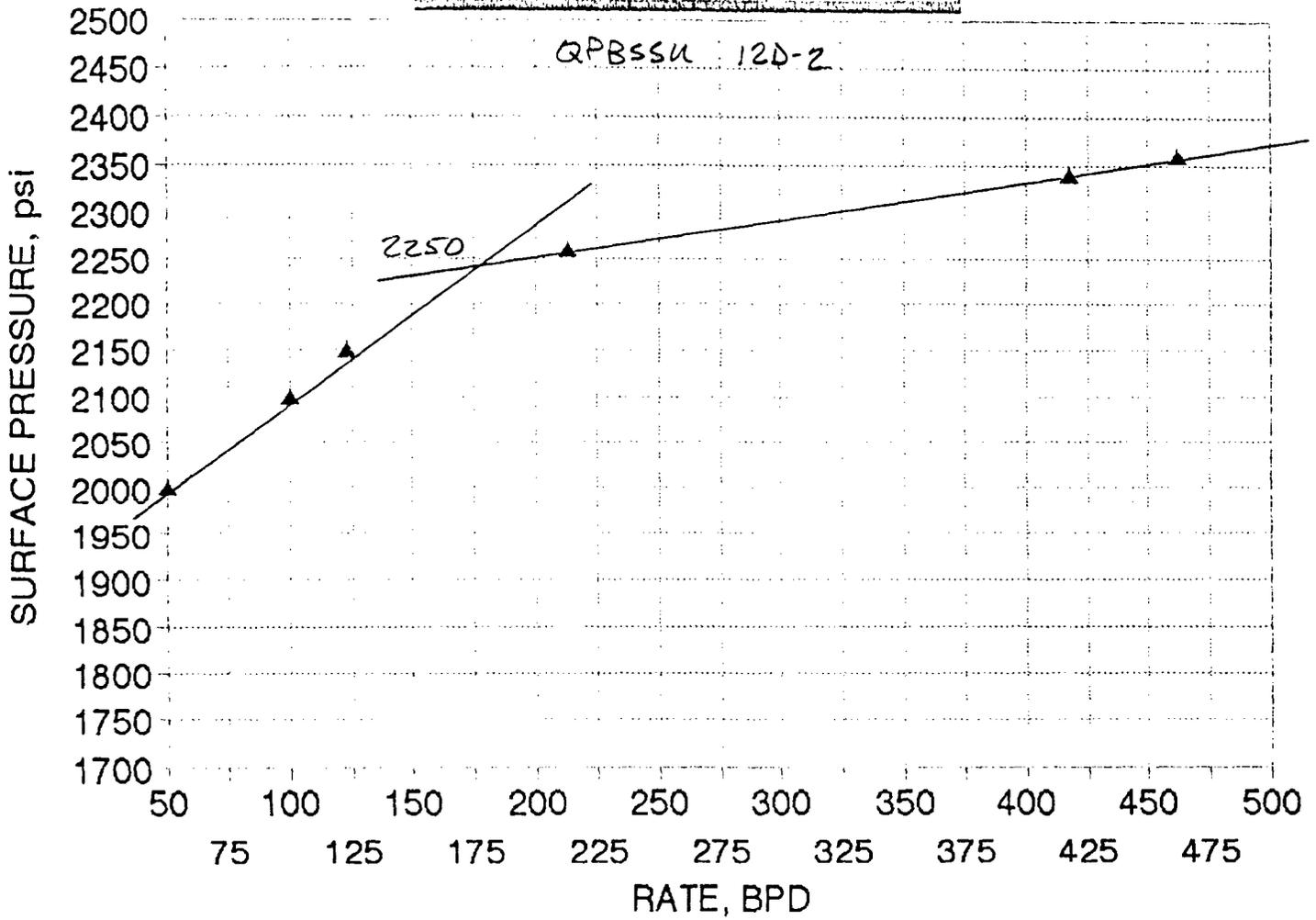
STEP RATE TEST
SPRINKLE FEDERAL #7

TEST HEAD

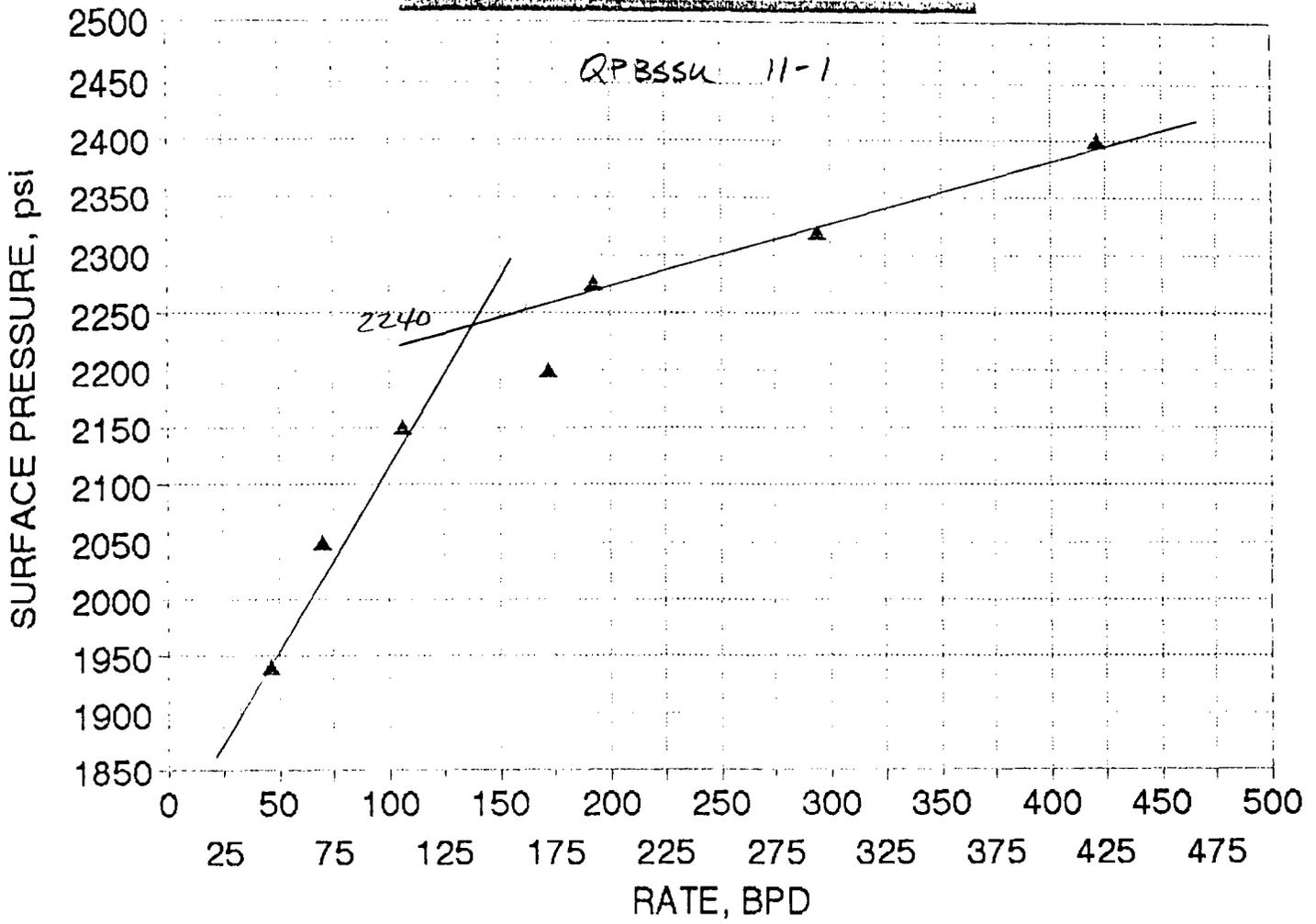


STEP RATE TEST
SPRINKLE FEDERAL #2

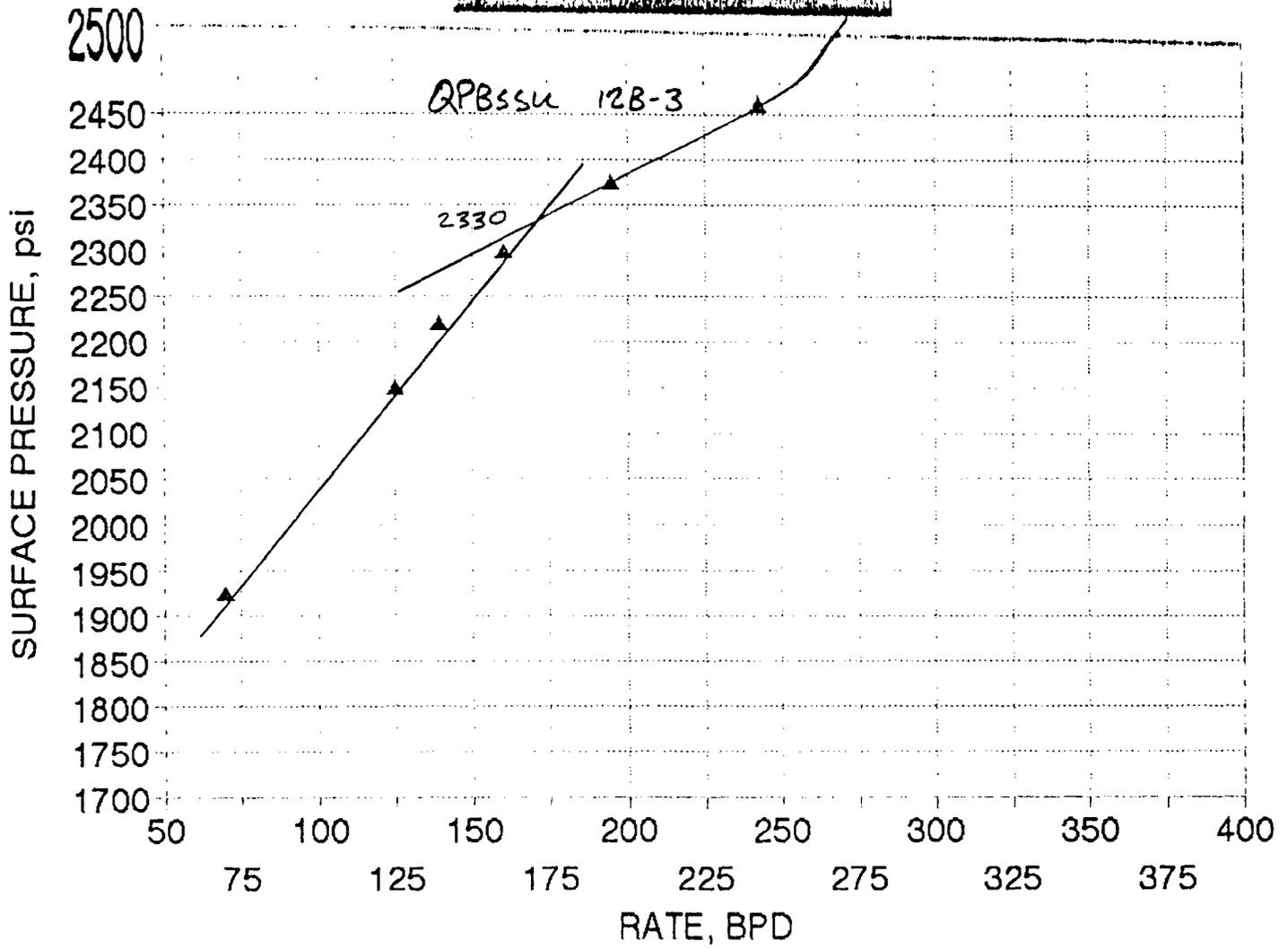
QPBSSU 12D-2



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 15th day of May, 1996, by Kevin Mayes.

Kenny Radecki

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

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 079 526 655

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:

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 079 526 654

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

Attention: Richard Rowe

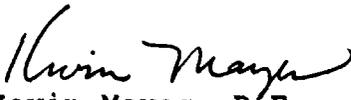
Re: Application for Increased Surface Injection Pressure
Querecho Plains Bone Spring Sand Unit Waterflood Project
Lea County, New Mexico

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 079 526 653

BTA
104 South Pecos
Midland, Texas 79701

**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 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:

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 079 526 650

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

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 079 526 652

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

**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

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.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- 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

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

6. Signature (Agent)

Pat Flannery

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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- Complete items 3, and 4a & b.
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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

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

6. Signature (Agent)

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

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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 BLOWNT
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)
[Signature]

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

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:
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)
[Signature]

6. Signature (Agent)
WICKERSON

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

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

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- 2. Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

BTA
104 SOUTH PECOS
MIDLAND, TX 79701

4a. Article Number

2 079 526 653

4b. Service Type

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

7. Date of Delivery

4-8-96

5. Signature (Addressee)

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

6. Signature (Agent)

[Signature]

PS Form 3811, December 1991

U.S. GPO: 1993-352-714

DOMESTIC RETURN RECEIPT

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

Consult postmaster for fee.

3. Article Addressed to:

YATES PETROLEUM CORP
207 S. 4TH STREET
ARTESIA, NEW MEX 88210

4a. Article Number

2 079 526 651

4b. Service Type

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

7. Date of Delivery

4-8-96

5. Signature (Addressee)

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

6. Signature (Agent)

[Signature]

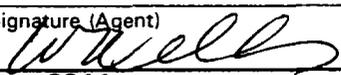
PS Form 3811, December 1991

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: <ul style="list-style-type: none"> • 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. • Attach this form to the front of the mailpiece, or on the back if space does not permit. • 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. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> 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	
5. Signature (Addressee)		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	
6. Signature (Agent) 		7. Date of Delivery APR - 8 1996	
PS Form 3811, December 1991 *U.S. GPO: 1993-352-714		8. Addressee's Address (Only if requested and fee is paid)	

Thank you for using Return Receipt Service.

DOMESTIC RETURN RECEIPT

PS Form 3800, March 1993

Postmark or Date	
TOTAL Postage & Fees	\$
Return Receipt Showing to Whom, Date, and Addressee's Address	
Return Receipt Showing to Whom, & Date Delivered	
Restricted Delivery Fee	
Special Delivery Fee	
Certified Fee	
Postage	\$
Sent to: SIETE OIL & GAS CORP Street and No. P.O. BOX 2533 State and ZIP Code ROSWELL, NM 88202-2533	



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

Z 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 ^{1.01}
ANADARKO	82240	79882	2358 1.17
SANTA FE (SWD)	10362	0	10362 1.17
SPRINKLE FED. #4	10186	9810	376 1.17
CEDAR LAKE #4			966 1.17
QPBSSU			7400 1.10
QPQASU BATTERY #1			268 1.17
QPQASU BATTERY #2			1604 1.17
QPQASU BATTERY #4			1702 1.17
QPQASU BATTERY #5			1 1.17
TOTAL			90017

fresh ← →

Dil. prod. water

Wt Avg
1.05
8.7 PPg
V = .46 m³/Fc