

BW - 22

MONITORING REPORTS

DATE:

WASSERHUND, INC.
P.O. Box 2140
Lovington, NM 88260-2140

August 04, 2016

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station (BW-022)

July 2016 1060

Brine Water Sold at the Tatum Brine Station (BW-02)

July 2016 1040

Pressure on Tatum Brine Station Averaged 260 psi

Sincerely Yours;


Donny Collins

WASSERHUND, INC.
P.O. Box 2140
Lovington, NM 88260-2140

100
2016

July 08, 2016

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station (BW-022)


June 2016 207

Brine Water Sold at the Tatum Brine Station (BW-02)

June 2016 200

Pressure on Tatum Brine Station Averaged 260 psi

Sincerely Yours;


Donny Collins

WASSERHUND, INC.
P.O. Box 2140
Lovington, NM 88260-2140

June 09, 2016

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station (BW-022)

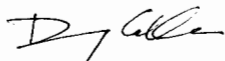
May 2016 207

Brine Water Sold at the Tatum Brine Station (BW-02)

May 2016 200

Pressure on Tatum Brine Station Averaged 260 psi

Sincerely Yours;


Donny Collins

WASSERHUND, INC.
P.O. Box 2140
Lovington, NM 88260-2140

May 09, 2016

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station (BW-022)

April 2016 271

Brine Water Sold at the Tatum Brine Station (BW-02)

April 2016 260

Pressure on Tatum Brine Station Averaged 260 psi

Sincerely Yours;



Donny Collins

WASSERHUND, INC.
P.O. Box 2140
Lovington, NM 88260-2140

April 06, 2016

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station (BW-022)

March 2016 148

Brine Water Sold at the Tatum Brine Station (BW-02)

March 2016 145

Pressure on Tatum Brine Station Averaged 260 psi

Sincerely Yours;


Donny Collins

WASSERHUND, INC.
P.O. Box 2140
Lovington, NM 88260-2140

2016 MAR 10 10:15 AM

March 09, 2016

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station (BW-022)


February 2016 305

Brine Water Sold at the Tatum Brine Station (BW-02)

February 2016 300

Pressure on Tatum Brine Station Averaged 260 psi

Sincerely Yours;


Donny Collins

WASSERHUND, INC.
P.O. Box 2140
Lovington, NM 88260-2140

RECEIVED
20 FEB 12 P 2:14

February 09, 2016

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station (BW-022)

January 2016 205

Brine Water Sold at the Tatum Brine Station (BW-02)

January 2016 200

Pressure on Tatum Brine Station Averaged 260 psi

Sincerely Yours;


Donny Collins

WASSERHUND, INC.
P.O. Box 2140
Lovington, NM 88260-2140

January 08, 2016

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station (BW-022)

December 2015 30

Brine Water Sold at the Tatum Brine Station (BW-02)

December 2015 35

Pressure on Tatum Brine Station Averaged 260 psi

Sincerely Yours;

A handwritten signature in black ink, appearing to read "Donny Collins", with a stylized flourish at the end.

Donny Collins

WASSERHUND, INC.
P.O. Box 2140
Lovington, NM 88260-2140

05
12/10/15 1:07

December 08, 2015

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station (BW-022)


November 2015 1501

Brine Water Sold at the Tatum Brine Station (BW-02)

November 2015 1477

Pressure on Tatum Brine Station Averaged 260 psi

Sincerely Yours;


Donny Collins

WASSERHUND, INC.
P.O. Box 2140
Lovington, NM 88260-2140

November 06, 2015

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station (BW-022)

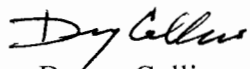
October 2015 510

Brine Water Sold at the Tatum Brine Station (BW-02)

October 2015 500

Pressure on Tatum Brine Station Averaged 260 psi

Sincerely Yours;


Donny Collins

WASSERHUND, INC.
P.O. Box 2140
Lovington, NM 88260-2140

RECEIVED OCD
2011 JUL 18 A 11:40

July 15, 2011

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station (BW-022)

April 2011	2688
May 2011	2668
June 2011	895

Brine Water Sold at the Tatum Brine Station (BW-022)

April 2011	2595
May 2011	2585
June 2011	840

Sincerely Yours;



Dornmy Collins

GANDY CORPORATION

OILFIELD SERVICES

P.O. Box 2140

Lovington, New Mexico 88260

575-396-0522

FAX 575-396-0797

RECEIVED OCD

2011 APR 18 P 1:35

April 15, 2011

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station (BW-022)

January 2011	5809
February 2011	3190
March 2011	1455

Brine Water Sold at the Tatum Brine Station (BW-022)

January 2011	5694
February 2011	3075
March 2011	1280

Sincerely Yours;



Donny Collins

GANDY CORPORATION
OILFIELD SERVICES

P.O. Box 2140
Lovington, New Mexico 88260
575-396-0522
FAX 575-396-0797

September 15, 2010

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station (BW-022)

July 2010	1730
August 2010	1120
September 2010	3160

Brine Water Sold at the Tatum Brine Station (BW-022)

July 2010	1620
August 2010	1005
September 2010	3000

Sincerely Yours;


Donny Collins

GANDY CORPORATION
OILFIELD SERVICES

P.O. Box 2140
Lovington, New Mexico 88260
575-396-0522
FAX 575-396-0797

January 15, 2011

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station (BW-022)

October 2010	3340
November 2010	3925
December 2010	2631

Brine Water Sold at the Tatum Brine Station (BW-022)

October 2010	3230
November 2010	3850
December 2010	2505

Sincerely Yours;



Donny Collins

GANDY CORPORATION
OILFIELD SERVICES

P.O. Box 2140
Lovington, New Mexico 88260

575-396-0522
FAX 575-396-0797

RECEIVED OCD

2010 JUL 12 A 11: 28

July 09, 2010

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station (BW-022)

April 2010	1690
May 2010	2390
June 2010	1530

Brine Water Sold at the Tatum Brine Station (BW-022)

April 2010	1805
May 2010	2535
June 2010	1615

Sincerely Yours;



Donny Collins

GANDY CORPORATION
OILFIELD SERVICES

RECEIVED OCD
2010 APR 12 P 1:09

P.O. Box 2140
Lovington, New Mexico 88260
575-396-0522
FAX 575-396-0797

April 09, 2010

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505


Fresh Water injected at the Tatum Brine Station (BW-022)

January 2010	621
February 2010	816
March 2010	843

Brine Water Sold at the Tatum Brine Station (BW-022)

January 2010	580
February 2010	770
March 2010	835

Sincerely Yours;


Donny Collins

GANDY CORPORATION
OILFIELD SERVICES

P.O. Box 2140
Lovington, New Mexico 88260
575-396-0522
FAX 575-396-0797

January 15, 2010

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station (BW-022)

October 2009	615
November 2009	1076
December 2009	648

Brine Water Sold at the Tatum Brine Station (BW-022)

October 2009	560
November 2009	1040
December 2009	620

Sincerely Yours;



Donny Collins

GANDY CORPORATION
OILFIELD SERVICES

P.O. Box 2140
Lovington, New Mexico 88260
575-396-0522
FAX 575-396-0797

October 14, 2009

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station (BW-022)

July 2009	0
August 2009	0
September 2009	0

Brine Water Sold at the Tatum Brine Station (BW-022)

July 2009	0
August 2009	0
September 2009	0

Sincerely Yours;


Donny Collins

GANDY CORPORATION

OILFIELD SERVICES

P.O. Box 2140
Lovington, New Mexico 88260
575-396-0522
FAX 575-396-0797

RECEIVED

2009 JUL 15 AM 11 37

July 14, 2009

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

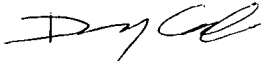
Fresh Water injected at the Tatum Brine Station

April 2009	1550
May 2009	42
June	489

Brine Water Sold at the Tatum Brine Station

April 2009	1415
May 2009	0
June	445

Sincerely Yours;


Donny Collins

GANDY CORPORATION

OILFIELD SERVICES

P.O. Box 2140
Lovington, New Mexico 88260
575-396-0522
FAX 575-396-0797

RECEIVED

2009 APR 15 AM 11 13

April 13, 2009

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505


Fresh Water injected at the Tatum Brine Station

January 2009	2355
February 2009	1090
March 2009	876

Brine Water Sold at the Tatum Brine Station

January 2009	2240
February 2009	925
March 2009	715

Sincerely Yours;


Donny Collins

GANDY CORPORATION
OILFIELD SERVICES

P.O. Box 2140
Lovington, New Mexico 88260
575-396-0522
FAX 575-396-0797

October 14, 2008

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station


BW-22

July 2008	2345
August 2008	75
September 2008	3585

Brine Water Sold at the Tatum Brine Station

July 2008	2120
August 2008	60
September 2008	3470

Sincerely Yours;


Donny Collins

GANDY CORPORATION

OILFIELD SERVICES

P.O. Box 2140

Lovington, New Mexico 88260

505-396-0522

FAX 396-0797

RECEIVED

2008 JUL 14 PM 12 12

July 14, 2008

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station

April 2008	3820
May 2008	6175
June 2008	3710

Brine Water Sold at the Tatum Brine Station

April 2008	3820
May 2008	6175
June 2008	3710

Sincerely Yours;



Donny Collins

GANDY CORPORATION
OILFIELD SERVICES

P.O. Box 2140
Lovington, New Mexico 88260
505-396-0522
FAX 396-0797

RECEIVED
2008 APR 16 PM 1 42

April 14, 2008

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station (BW-22)

January 2008	5160
February 2008	6304
March 2008	4732

Brine Water Sold at the Tatum Brine Station

January 2008	5160
February 2008	6304
March 2008	4732

Sincerely Yours;


Donny Collins

GANDY CORPORATION

OILFIELD SERVICES

P.O. Box 2140

Lovington, New Mexico 88260

505-396-0522

FAX 396-0797

RECEIVED

2008 JAN 15 AM 11 43

January 11, 2008

NM Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station

(BW-22)

October 2007	2510
November 2007	4550
December 2007	4160

Brine Water Sold at the Tatum Brine Station

October 2007	2510
November 2007	4550
December 2007	4160

Sincerely Yours;



Donny Collins



Gandy Corporation
1623 S. Main P. O. Box 2140
Lovington, New Mexico 88260

505-396-0522

FAX 505-396-0797

gandy3@leaco.net

October 09, 2007

NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

BW-22

Fresh Water injected at the Tatum Brine Station was:

July 2007	6160
August 2007	1870
September 2007	245

Brine Water sold at the Tatum Brine Station was:

July 2007	6160
August 2007	1870
September 2007	245

Sincerely Yours:

Donny Collins

RECEIVED
2007 OCT 11 PM 12:12



Gandy Corporation
1623 S. Main P. O. Box 2140
Lovington, New Mexico 88260



505-396-0522

FAX 505-396-0797

RECEIVED

gandy3@leao.net
2007 JUL 11 PM 2:26

July 9, 2007

NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

BW-22

Fresh Water injected at the Tatum Brine Station was:

April 2007	5100
May 2007	6525
June 2007	3245

Brine Water Sold at the Tatum Brine Station was:

April 2007	5100
May 2007	6525
June 2007	3245

Sincerely Yours:

Donny Collins



Gandy Corporation

1623 S. Main P. O. Box 2140
Lovington, New Mexico 88260

505-396-0522

FAX 505-396-0797

gandy3@leaco.net

2007 APR 18 PM 1 08

April 16, 2007

NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

BW-22

Fresh Water injected at the Tatum Brine Station was:

January 2007	18606
February 2007	130
March 2007	3145

Brine Water sold at the Tatum Brine Station was:

January 2007	18606
February 2007	130
March 2007	3145

Sincerely Yours:

Donny Collins

GANDY CORPORATION

OILFIELD SERVICES

P.O. Box 2140

Lovington, New Mexico 88260

505-396-0522

FAX 396-0797

BW-22

October 13, 2006

NM Oil Conservation Division

1220 S. Saint Francis

Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station was:

July 2006	6410
August 2006	7820
September 2006	10730

Brine Water Sold at the Tatum Brine Station was:

July 2006	6410
August 2006	7820
September 2006	10730

Sincerely Yours;



Donny Collins

GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 2140

LOVINGTON, NEW MEXICO 88267

(505) 396-0522

FAX 505-396-0797

2006 APR 10 PM 1 16

April 08, 2006

NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Dear Mr. Price:

Fresh Water injected at the Tatum Brine Station was:

January 2006	16285
February 2006	8300
March 2006	9985

Brine Water Sold at the Tatum Brine Station was:

January 2006	16285
February 2006	8300
March 2006	9985

Sincerely Yours;



Donny Collins

GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX 505-398-6887

July 12, 2005

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM-87505

Dear Mr. Price:

Fresh Water injected at the Tatum Brine Station was:

April 2005	16880
May 2005	14784
June 2005	16899

Brine Water Sold at the Tatum Brine Station was:

April 2005	16880
May 2005	14784
June 2005	16899

Sincerely Yours,



Donny Collins

GANDY CORPORATION
OILFIELD SERVICES
P.O. BOX 2140
LOVINGTON, NEW MEXICO 88267
(505) 396-0522
FAX 505-396-0797

RECEIVED

JAN 19 2006

Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

January 14, 2006

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Dear Mr. Price:

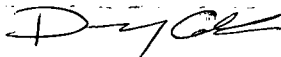
Fresh Water injected at the Tatum Brine Station was:

October 2005	8440
November 2005	10924
December 2005	9220

Brine Water Sold at the Tatum Brine Station was:

October 2005	8440
November 2005	10924
December 2005	9220

Sincerely Yours;


Donny Collins

GANDY CORPORATION
OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX 505-398-6887

2005 OCT 13 PM 2 39

October 10, 2005

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Dear Mr. Price:

Fresh Water injected at the Tatum Brine Station was:

July 2005	14420
August 2005	9440
September 2005	2030

Brine Water Sold at the Tatum Brine Station was:

July 2005	14420
August 2005	9440
September 2005	2030

Sincerely Yours;


Donny Collins

Printed Name: Donny Collins
Title: Sales Manager
Phone: (505) 398-4960
Fax: (505) 398-6887

300-1
500-1
600-1

2005 APR 14 AM 11 24

GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX 505-398-6887

April 11, 2005

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Dear Mr. Price:

Fresh Water injected at the Tatum Brine Station was:

January 2005	8845
February 2005	5102
March 2005	6990

Brine Water Sold at the Tatum Brine Station was:

January 2005	8845
February 2005	5102
March 2005	6990

Sincerely Yours;



Donny Collins

ANDY CORPORATION
OILFIELD SERVICES
P.O. BOX 827
TATUM, NEW MEXICO 88267
(505) 398-4960
FAX 505-398-6887

January 08, 2005

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Dear Mr. Price:

Fresh Water injected at the Tatum Brine Station was:

October 2004	8845
November 2004	5102
December 2004	6990

Brine Water Sold at the Tatum Brine Station was:

October 2004	8845
November 2004	5102
December 2004	6990

Sincerely Yours;



Donny Collins

GANDY CORPORATION

OILFIELD SERVICES

P.O. Box 2140

Lovington, New Mexico 88260

505-396-0522

FAX 396-0797

July 11, 2006

NM Oil Conservation Division

1220 S. Saint Francis

Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station was:

April 2006	5455
May 2006	3070
June 2006	8060

Brine Water Sold at the Tatum Brine Station was:

April 2006	5455
May 2006	3070
June 2006	8060

Sincerely Yours;



Donny Collins

GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX 505-398-6887

April 04, 2003

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Dear Mr. Price:

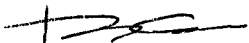
Fresh Water injected at the Tatum Brine Station was:

January 2003	23316
February 2003	9011
March 2003	10210

Brine Water Sold at the Tatum Brine Station was:

January 2003	23316
February 2003	9011
March 2003	10210

Sincerely Yours;



Donny Collins

ANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX 505-398-6887

RECEIVED

OCT 15 2004

OIL CONSERVATION
DIVISION

October 12, 2004

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Dear Mr. Price:

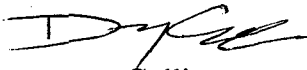
Fresh Water injected at the Tatum Brine Station was:

July 2004	8740
August 2004	5640
September 2004	8370

Brine Water Sold at the Tatum Brine Station was:

July 2004	8740
August 2004	5640
September 2004	8370

Sincerely Yours;


Donny Collins

GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX 505-398-6887

RECEIVED

OCT 06 2003

**OIL CONSERVATION
DIVISION**

October 3, 2003

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Dear Mr. Price:

Fresh Water injected at the Tatum Brine Station was:

July 2003	6042
August 2003	17910
September 2003	10493

Brine Water Sold at the Tatum Brine Station was:

July 2003	6042
August 2003	17910
September 2003	10493

Sincerely Yours;


Donny Collins

10/03/03 10:00 AM
10/03/03 10:00 AM
10/03/03 10:00 AM

GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX 505-398-6887

January 6, 2003

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Dear Mr. Price:

Fresh Water injected at the Tatum Brine Station was:

October 2003	10665
November 2003	20688
December 2003	18278

Brine Water Sold at the Tatum Brine Station was:

October 2003	10665
November 2003	20688
December 2003	18278

Sincerely Yours;



Donny Collins

GANDY CORPORATION
OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX 505-398-6887

RECEIVED

APR 15 2004

**OIL CONSERVATION
DIVISION**

April 13, 2004

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Dear Mr. Price:

Fresh Water injected at the Tatum Brine Station was:

January 2004	11986
February 2004	9481
March 2004	16680

Brine Water Sold at the Tatum Brine Station was:

January 2004	11986
February 2004	9481
March 2004	16680

Sincerely Yours;


Donny Collins

GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX 505-398-6887

July 01, 2003

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Dear Mr. Price:

Fresh Water injected at the Tatum Brine Station was:

April 2003	19320
May 2003	11540
June 2003	11580

Brine Water Sold at the Tatum Brine Station was:

April 2003	19320
May 2003	11540
June 2003	11580

Sincerely Yours;


Donny Collins

ST. LOUIS, MO 63101-2000

1000 5003 11220

1000 5003 11220

1000 5003 11220

GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX 505-398-6887

RECEIVED

JUL 12 2004

**OIL CONSERVATION
DIVISION**

July 07, 2004

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Dear Mr. Price:

Fresh Water injected at the Tatum Brine Station was:

April 2004	13120
May 2004	12714
June 2004	4311

Brine Water Sold at the Tatum Brine Station was:

April 2004	13120
May 2004	12714
June 2004	4311

Sincerely Yours;


Donny Collins

7/12/04
1220 S. Saint Francis
Santa Fe, NM 87505

GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX 505-398-6887

October 03, 2001

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Dear Mr. Price:

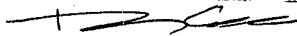
Fresh Water injected at the Tatum Brine Station was:

July 2001	12430
August 2001	17576
September 2001	13684

Brine Water Sold at the Tatum Brine Station was:

July 2001	12430
August 2001	17576
September	13684

Sincerely Yours;



Donny Collins

RECEIVED
JUL 12 2002
Environmental Bureau
Oil Conservation Division

July 05, 2002

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Dear Mr. Price:

Fresh Water injected at the Tatum Brine Station was:

April 2002	17750
May 2002	9500
June 2002	8155

Brine Water Sold at the Tatum Brine Station was:

April 2002	17750
May 2002	9500
June 2002	8155

Sincerely Yours;



Donny Collins

GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX 505-398-6887

April 05, 2002

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Dear Mr. Price:


Fresh Water injected at the Tatum Brine Station was:

January 2002	4550
February 2002	805
March 2002	6120

Brine Water Sold at the Tatum Brine Station was:

January 2002	4550
February 2002	805
March 2002	6120

Sincerely Yours;


Donny Collins

RECEIVED
BY: [illegible]
DATE: 5/1/02

GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX 505-398-6887

January 03, 2003

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Dear Mr. Price:


Fresh Water injected at the Tatum Brine Station was:

October 2002	5810
November 2002	6265
December 2002	10535

Brine Water Sold at the Tatum Brine Station was:

October 2002	5810
November 2002	6265
December 2002	10535

Sincerely Yours;



Donny Collins

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

DATE 10/10/01 BY 1043

1043

1043

GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX 505-398-6887

April 05, 2002

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Dear Mr. Price:

Fresh Water injected at the Wasserhund Brine Station was:

January 2002	29445
February 2002	21497
March 2002	16250

Brine Water Sold at the Wasserhund Brine Station was:

January 2002	29445
February 2002	21497
March 2002	16250

Sincerely Yours;



Donny Collins



Gandy Corporation
1623 S. Main P. O. Box 2140
Lovington, New Mexico 88260

505-396-0522

FAX 505-396-0797

gandy3@leaco.net

BW-22

January 15, 2007

NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Fresh Water injected at the Tatum Brine Station was:

October 2006	6340
November 2006	12370
December 2006	9215

Brine Water sold at the Tatum Brine Station was:

October 2006	6340
November 2006	12370
December 2006	9215

Sincerely Yours:

Donny Collins

GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX 505-398-6887

October 7, 2002

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Dear Mr. Price:

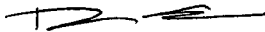
Fresh Water injected at the Tatum Brine Station was:

July 2002	1142
August 2002	765
September 2002	4605

Brine Water Sold at the Tatum Brine Station was:

July 2002	1142
August 2002	765
September 2002	4605

Sincerely Yours;



Donny Collins

GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX 505-398-6887

January 03, 2001

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

RECEIVED
JAN 10 2001
Environmental Bureau
Oil Conservation Division

Dear Mr. Price:

Fresh Water injected at the Tatum Brine Station was:

October 2001	18880
November 2001	7820
December 2001	4130

Brine Water Sold at the Tatum Brine Station was:

October 2001	18880
November 2001	7820
December 2001	4130

Sincerely Yours;



Donny Collins

October 2001 18880
November 2001 7820
December 2001 4130

Danny's Hot Oil Service, Inc.

Quality Brine
P.O. Box 682
Tatum, NM 88267
(505) 398-3490

JUL 23 1999

FOR INFORMATION & RECORD
DATE RECEIVED: JUL 23 1999

QUARTERLY WATER REPORT

Date of Report: 07/08/99

Reporting Months: April May June 1999

Operator: Danny's Hot Oil Service, Inc. General Op. Mgr. Danny R. Watson

Company: Quality Brine Telephone: (505) 398-3490

Address: P.O. Box 682, Tatum, NM 88267

<u>Reporting Month</u>	<u>Volume of Fresh Water Injected*</u>	<u>Volume of Brine Water Produced*</u>	<u>Average Injection Pressure</u>
April	1,212.00	5,895.00	300 lbs
May	966.00	3,220.00	300 lbs
June	<u>1,431.00</u>	<u>3,875.00</u>	300 lbs
TOTAL	3,609.00	12,990.00	300 lbs

*Unit of Volume in Barrels

Leak Detection Inspections

Month

Result of Inspection

April

None

May

None

June

None

Remarks/Explanations: _____

I CERTIFY THAT THIS REPORT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE


Signature

President
Title

CITY OF HOBBS LABORATORY

SAMPLE SITE : WATSON WELL TATUM, NEW MEXICO

DATE SAMPLED: 9/22/97

COLLECTED BY: DANNY WATSON

DATE ANALYZED: 9/23/97

ANALYZED BY: A. DEAN

AD

ALKALINITY 180.0 mg/L

CHLORIDE 115.0 mg/L

NITRATE 4.5 mg/L

TOTAL DISSOLVED SOLIDS 740 mg/L

15053932476

CARDINAL LABS

369 P02

APR 26 '95 09:29


CARDINAL
LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ARLING, TX 78003

PHONE (505) 320-2020 • 181 E. MADRID • HOBBS, NM 88240

PHONE (505) 320-4859 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

FINAL ANALYSIS REPORT

Company: Quality Brine
 Address: P.O. Box 682
 City, State: Tatum, NH 88267

Date: 4/26/95
 Lab #: H2020

Project Name: not given
 Location: Water Station
 Sampled by: DW
 Analysed by: HN
 Sample Type: Soil

Date: 4/26/95 Time: 9:30
 Date: 4/26/95 Time: 9:19
 Sample Condition: Yeahee Units: mg/kg

Samp

1 10 CODE

26 1

2 Pit East of Water Pump

26 1

QC Recovery
 QC Spike
 Accuracy

4
 1
 1

Methods - INFRARED SPECTROSCOPY
 - EPA SW-846, 410.1, 3540 OR 3510

John Y. Morrison

4-26-95

15053932476

CARDINAL LABS

351 P02

APR 13 '95 11:45



CARDINAL LABORATORIES

PHONE (815) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

PHONE (505) 328-4869 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

TPH/BTEX ANALYSIS REPORT

Company: Quality Brine
Address: P.O. Box 682
City, State: Tatum, NM 88267

Date: 4/13/95
Lab #: B2009

Project Name: Pit
Location: East of Water Pump
Sampled by: DW
Analyzed by: HM
Sample Type: Soil

Date: 4/11/95 Time: 6:30 pm
Date: 4/11-12/95 Time: various
Sample Condition: Intact

Units: mg/kg

Samp #	Field Code	T	BENZENE	TOLUENE	ETHYL BENZENE	PARA-XYLENE	META-XYLENE	ORTHO-XYLENE	MTBE
1	North Side Pit	1,111.9	0.167	0.101	0.427	0.096	0.234	0.245	0.103
2	South Side Pit	162.9	<0.001	0.006	<0.001	<0.001	<0.001	<0.001	<0.001

QC Recovery	423.3	0.982	0.837	0.920	0.899	0.890	0.926	0.740
QC Spike	405.9	0.878	0.873	0.867	0.862	0.853	0.867	0.830
Accuracy	104.3%	111.8%	95.9%	106.1%	104.3%	104.3%	106.0%	89.2%
Air Blank	***	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Methods - GAS CHROMATOGRAPHY, INFRARED SPECTROSCOPY
- EPA SW-846; 8020, 418.1, 3500 OR 3510

Hope Moreno
Hope Moreno

4-13-95
Date

15053932476

CARDINAL LABS

351 P03

APR 13 '95 11:46

**CARDINAL**
LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

PHONE (505) 328-4668 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

CHEMICAL ANALYSIS OF SOIL

Company : Quality Brine
City, St.: P.O. Box 682, Tatum, NM 88267
Proj. Name: Pit
Location : East of Water Pump

Lab #: H2009
Date Received: 4/12/95
Date Analyzed: 4/12/95

Sample 1 : North Side Pit
Sample 2 : South Side Pit

Units: mg/kg

<u>PARAMETER</u>	<u>RESULT 1</u>	<u>RESULT 2</u>
Chloride	60	60

Hape Moreno
Hape Moreno

4-13-95
Date

GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX 505-398-6887

July 03, 2001

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Dear Mr. Price

Fresh Water injected at the Tatum Brine Station was:

April 2001	13722
May 2001	7436
June 2001	3580

Brine Water Sold at the Tatum Brine Station was:

April 2001	13722
May 2001	7436
June 2001	3580

Sincerely Yours;



Donny Collins

GANDY CORPORATION

OILFIELD SERVICES

P. O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

April 04, 2001

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Dear Mr. Price

Fresh Water injected at the Tatum Brine Station was:

January 2001	14025
February 2001	826
March 2001	5270

Brine Water Sold at the Tatum Brine Station was:

January 2001	14025
February 2001	826
March 2001	5270

Sincerely-Yours;



Donny Collins

GANDY CORPORATION

OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX -505-398-6887

Wayne Price
NM Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

Dear Mr. Price

Fresh Water injected at the Tatum Brine Station was:

October 2000	4150 bbls
November 2000	8000 bbls
December 2000	13820 bbls

Brine Water Sold at the Tatum Brine Station was:

October 2000	4150 bbls
November 2000	8000 bbls
December 2000	13820 bbls

Sincerely Yours;


Donny Collins

GANDY CORPORATION

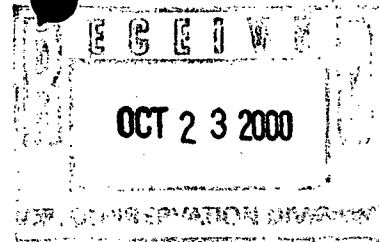
OILFIELD SERVICES

P.O. BOX 827

TATUM, NEW MEXICO 88267

(505) 398-4960

FAX -505-398-6887



Wayne Price
NM Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

Dear Mr. Price

Fresh Water injected at the Tatum Brine Station was:

February 2000	15240 bbls
March 2000	23663 bbls
April 2000	11450 bbls
May 2000	4715 bbls
June 2000	7050 bbls
July 2000	9590 bbls
August 2000	13060 bbls
September 2000	9155 bbls

Brine Water Sold at the Tatum Brine Station was:

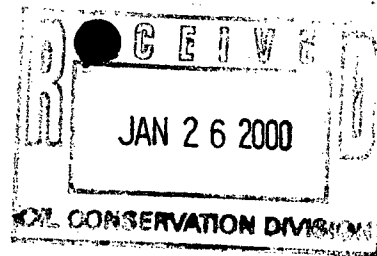
February 2000	15240 bbls
March 2000	23663 bbls
April 2000	11450 bbls
May 2000	4715 bbls
June 2000	7050 bbls
July 2000	9590 bbls
August 2000	13060 bbls
September 2000	9155 bbls

Sincerely Yours;

A handwritten signature in dark ink, appearing to read "Donny Collins".

Donny Collins

Danny's Hot Oil Service, Inc.
Quality Brine
Tatum, NM 88267
(505) 398-3490



QUARTERLY WATER REPORT

Date of Report: 24 January 2000

Reporting Months: October, November, December 1999

Operator: Danny's Hot Oil Service, Inc. General Op. Mgr. Danny R. Watston

Company: Quality Brine Telephone: (505) 398-3490

Address: PO Box 682, Tatum, NM 88267

<u>Reporting Month</u>	<u>Volume of Fresh Water Injected*</u>	<u>Volume of Brine Water Produced*</u>	<u>Average Injection Pressure</u>
October	6,535.00	8,482.00	300 lbs
November	1,408.00	4,830.00	300 lbs
December	3,082.00	3,936.00	300 lbs
TOTAL	11,025.00	17,248.00	

*Unit of Volume in Barrels

Leak Detection Inspections

Month

October

Result of Inspection

November

OCC Bill Pritchett requested signs be posted.

December

Posted signs with all identification information as requested by OCC.

Remarks/Explanations: _____

I certify that this report is true and correct to the best of my knowledge.


Signature

President
Title

Danny's Hot Oil Service, Inc.

Quality Brine
P.O. Box 682
Tatum, NM 88267
(505) 398-3490

QUARTERLY WATER REPORT

Date of Report: 04/7/99

Reporting Months: January, February, March 1999

Operator: Danny's Hot Oil Service, Inc. General Op. Mgr. Danny R. Watson

Company: Quality Brine Telephone: (505) 398-3490

Address: P.O. Box 682, Tatum, NM 88267

<u>Reporting Month</u>	<u>Volume of Fresh Water Injected*</u>	<u>Volume of Brine Water Produced*</u>	<u>Average Injection Pressure</u>
JANUARY	1,609.00	3,116.00	300 lbs
FEBRUARY	225.00	2,151.00	300 lbs
MARCH	<u>1,150.00</u>	<u>638.00</u>	300 lbs
TOTAL	2,984.00	5,905.00	

*Unit of Volume in Barrels

Leak Detection Inspections
Month

JANUARY

Result of Inspection

1/8: Had fresh water leak on high pressure line going to brine well. 1/11: dug out entire line and replaced 2-7/8 tubing to 2-3/8. Tested to 600 lbs. Found no leaks. Put 4 inch poly line over 2-3/8 tubing to keep caliche from eating up steel line. Wrapped each end with truck innertube. Hopefully this will last longer than 8-1/2 years.

FEBRUARY

None Found

MARCH

None Found

Remarks/Explanations: _____

I CERTIFY THAT THIS REPORT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE


Signature

President
Title

Danny's Hot Oil Service, Inc.

Quality Brine
P.O. Box 682
Tatum, NM 88267
(505) 398-3490

RECEIVED

JAN 22 1999
Environmental Bureau
Oil Conservation Division

QUARTERLY WATER REPORT

Date of Report: 01/14/99

Reporting Months: October, November, December 1998

Operator: Danny's Hot Oil Service, Inc. General Op. Mgr. Danny R. Watson

Company: Quality Brine Telephone: (505) 398-3490

Address: P.O. Box 682, Tatum, NM 88267

<u>Reporting Month</u>	<u>Volume of Fresh Water Injected*</u>	<u>Volume of Brine Water Produced*</u>	<u>Average Injection Pressure</u>
OCTOBER	11,215.00	6,170.00	300 lbs
NOVEMBER	9,201.00	1,750.00	300 lbs
DECEMBER	<u>5,844.00</u>	<u>1,570.00</u>	300 lbs
TOTAL	26,260.00	9,490.00	300 lbs

*Unit of Volume in Barrels

Leak Detection Inspections

<u>Month</u>	<u>Result of Inspection</u>
OCTOBER	None Found
NOVEMBER	None Found
DECEMBER	None Found

Remarks/Explanations: _____

I CERTIFY THAT THIS REPORT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE

Danny R. Watson
Signature

Pres.
Title

Danny's Hot Oil Service, Inc.

Quality Brine
P.O. Box 682
Tatum, NM 88267
(505) 398-3490

QUARTERLY WATER REPORT

Date of Report: 10/13/98

Reporting Months: July, August, September 1998

Operator: Danny's Hot Oil Service, Inc. General Op. Mgr. Danny R. Watson

Company: Quality Brine Telephone: (505) 398-3490

Address: P.O. Box 682, Tatum, NM 88267

<u>Reporting Month</u>	<u>Volume of Fresh Water Injected*</u>	<u>Volume of Brine Water Produced*</u>	<u>Average Injection Pressure</u>
JULY	1,091.00	7,990.00	300 lbs
AUGUST	1,490.00	2,110.00	300 lbs
SEPTEMBER	<u>2,150.00</u>	<u>4,551.00</u>	300 lbs
TOTAL	4,731.00	14,651.00	300 lbs

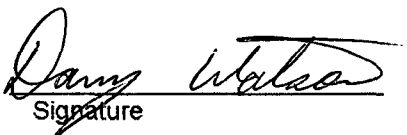
*Unit of Volume in Barrels

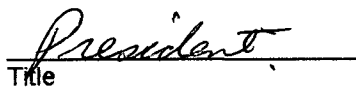
Leak Detection Inspections

<u>Month</u>	<u>Result of Inspection</u>
JULY	None Found
AUGUST	None Found
SEPTEMBER	None Found

Remarks/Explanations: _____

I CERTIFY THAT THIS REPORT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE


Signature


Title

Danny's Hot Oil Service, Inc.

Quality Brine
P.O. Box 682
Tatum, NM 88267
(505) 398-3490

QUARTERLY WATER REPORT

Date of Report: 01/06/98

Reporting Months: October, November, December 1997

Operator: Danny's Hot Oil Service, Inc. General Op. Mgr. Danny R. Watson

Company: Quality Brine Telephone: (505) 398-3490

Address: P.O. Box 682, Tatum, NM 88267

<u>Reporting Month</u>	<u>Volume of Fresh Water Injected*</u>	<u>Volume of Brine Water Produced*</u>	<u>Average Injection Pressure</u>
OCTOBER	1,734.0	7,040.0	300 lbs
NOVEMBER	3,098.0	6,105.0	300 lbs
DECEMBER	<u>1,381.6</u>	<u>4,461.0</u>	300 lbs
TOTAL	6,213.6	17,606.0	300 lbs

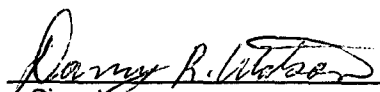
*Unit of Volume in Barrels


Leak Detection Inspections

<u>Month</u>	<u>Result of Inspection</u>
OCTOBER	None Found
NOVEMBER	None Found
DECEMBER	None Found

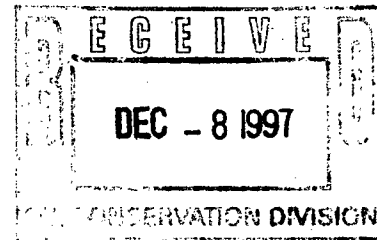
Remarks/Explanations: _____

I CERTIFY THAT THIS REPORT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE


Signature


Title

Quality Brine
P.O. Box 682
Tatum, NM 88267



4 December 1997

New Mexico Energy, Minerals &
Natural Resources Department
2040 South Pacheco Street
Santa Fe, NM 87505

Attention: Mr. Mark Ashley

Reference: Quarterly Water Report

Dear Mr. Ashely:

Enclosed please find that latest Quarterly Water Report which was submitted 20 October 1997.
Per ODC instructions, we formatted our report to reflect water amounts by month. If this revised
report format is not acceptable, please let us know.

Sincerely,

A handwritten signature in cursive script that reads "Danny Watson".

Danny Watson, President
Quality Brine

Danny's Hot Oil Service, Inc.

Quality Brine
P.O. Box 682
Tatum, NM 88267
(505) 398-3490

QUARTERLY WATER REPORT

Date of Report: 10/20/97

Reporting Months: July, August, September 1997

Operator: Danny's Hot Oil Service, Inc. General Op. Mgr. Danny R. Watson

Company: Quality Brine Telephone: (505) 398-3490

Address: P.O. Box 682, Tatum, NM 88267

<u>Reporting Month</u>	<u>Volume of Fresh Water Injected*</u>	<u>Volume of Brine Water Produced*</u>	<u>Average Injection Pressure</u>
JULY	2,840	4,360	300 lbs
AUGUST	3,296	2,170	300 lbs
SEPTEMBER	<u>3,065</u>	<u>2,660</u>	300 lbs
TOTAL	9,201	9,190	300 lbs

*Unit of Volume in Barrels

Leak Detection Inspections

<u>Month</u>	<u>Result of Inspection</u>
JULY	None Found
AUGUST	None Found
SEPTEMBER	None Found

Remarks/Explanations: _____

I CERTIFY THAT THIS REPORT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE

Danny Watson
Signature

President
Title

QUALITY BRINE
P.O. BOX 682
TATUM, NM 88267

Energy Minerals and Natural Resources, Dept.
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

RE: Brine Water Report
Fresh Water Report

Mr. Mark Ashley :

Report Month: 2nd qtr 1997

Total: Brine Water 15,260

TOTAL: Fresh Water 2,411

Doris Sloan Bookkeeper

Signature

7/15/97

Date

QUALITY BRINE
P.O. BOX 682
TATUM, NM 88267

Energy Minerals and Natural Resources, Dept.
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

RE: Brine Water Report
Fresh Water Report

Mr. Mark Ashley :

Report Month: 1st gt 1997
Total: Brine Water 8,176
TOTAL: Fresh Water 21,780

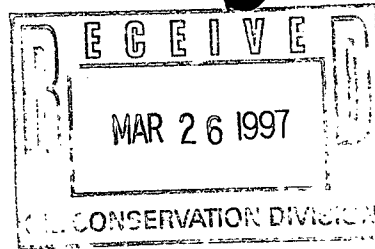
Doris Dean Bookkeeper

Signature

4/29/97

Date

QUALITY BRINE
P.O. BOX 682
TATUM, NM 88267



March 1, 1997

Energy, Minerals and Natural Resources Dept.
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

Re: Brine Water Report

Mr. Mark Ashley:

The water report for the period: 1985 to Dec.31, 1996 is as
following:

Total Brine Water Bbls: 473,712

Danny R. Tatum
Signature

3/1/97
Date

ASSAIGAI

ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

PAGE 1

INVOICE
02/02/92 12:56:16
ORD # 92-01-178
INVOICE # 913216

INVOICE QUALITY BRINE

TO BOX 75

TATUM, NM 88267

REMIT Assaigai Analytical Labs

TO P.O. Box 90430

Albuquerque, NM 87199-0430

TERMS NET 30 DAYS

ATTEN STAN WATSON

ATTEN ACCOUNTS RECEIVABLE
PHONE (505) 345-8964

WORK ID GRIFFIN & SYNERGY GAS 09177
P.O. #

REPORT QUALITY BRINE

TO BOX 75

TATUM, NM 88267

JUST A REMINDER: Please send us your nontaxable transaction certificate(TYPE 5) series 1992. Disregard if this task has already been accomplished. We thank you.

ATTEN STAN WATSON

RECEIVED 01/24/92 CLIENT QUA01
REPORTED 02/02/92 PROJECT

ID	CODE	DESCRIPTION	REMARK	PRICE	QTY	DISCOUNT	AMOUNT
TESTS	601	PURGEABLE HALOCARBONS		150.00	2		300.00
	602	PURGEABLE AROMATICS		145.00	2		290.00
SUBTOTAL							\$590.00

ADJUSTMENTS TAX 33.93

TOTAL INVOICE AMOUNT \$623.93

OIL CONSERVATION DIVISION
RECEIVED
92 FEB 19 AM 8 32

ASSAIGAI

ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

Page 1
Received: 01/24/92

REPORT
02/02/92 12:42:16

Work Order # 92-01-178

REPORT QUALITY BRINE

TO BOX 75

TATUM, NM 88267

PREPARED Assaigai Analytical Labs

BY 7300 Jefferson NE

Albuquerque, NM 87109

ATTEN STAN WATSON

ATTEN SYED RIZVI
PHONE (505) 345-8964

CONTACT LAB MANAGER

CERTIFIED BY

Syed Rizvi

CLIENT QUA01

SAMPLES 2

COMPANY QUALITY BRINE

FACILITY TATUM, NM 88267

QUA01

QUESTIONS ABOUT THIS REPORT SHOULD BE ADDRESSED TO:

LABORATORY OPERATIONS MANAGER/ASSAIGAI ANALYTICAL

7300 JEFFERSON N.E., ALBUQUERQUE, N.M. 87109

WORK ID GRIFFIN & SYNERGY GAS 09177

TAKEN 1/23/92

TRANS U.S. MAIL

TYPE WATER

P.O. #

INVOICE under separate cover

SAMPLE IDENTIFICATION

01 LOT # 1 - GRIFFIN

02 LOT # 2 - SYNERGY

601

602

TEST CODES and NAMES used on this workorder

PURGEABLE HALOCARBONS

PURGEABLE AROMATICS



REPORT Results by Sample

Work Order # 92-01-178

SAMPLE ID LOT # 1 - GRIFFIN

FRACTION 01A TEST CODE 601 NAME PURGEABLE HALOCARBONS
Date & Time Collected 01/23/92 03:30:00 Category WATER

PARAMETER	RESULT	DET LIMIT
BROMODICHLOROMETHANE	<1.0	1.0
BROMOFORM	<1.0	1.0
BROMOMETHANE	<1.0	1.0
CARBON TETRACHLORIDE	<1.0	1.0
CHLOROBENZENE	<1.0	1.0
CHLOROETHANE	<1.0	1.0
CHLOROFORM	<1.0	1.0
2-CHLOROETHYL VINYL ETHER	<1.0	1.0
CHLOROMETHANE	<1.0	1.0
DIBROMOCHLOROMETHANE	<1.0	1.0
1,2-DICHLOROBENZENE	<1.0	1.0
1,3-DICHLOROBENZENE	<1.0	1.0
1,4-DICHLOROBENZENE	<1.0	1.0
DICHLORODIFLUOROMETHANE	<1.0	1.0
1,1-DICHLOROETHANE	<1.0	1.0
1,2-DICHLOROETHANE	<1.0	1.0
1,1-DICHLOROETHENE	<1.0	1.0
trans-1,2-DICHLOROETHENE	<1.0	1.0
1,2-DICHLOROPROPANE	<1.0	1.0
cis-1,3-DICHLOROPROPENE	<1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1.0	1.0
trans-1,3-DICHLOROPROPENE	<1.0	1.0
METHYLENE CHLORIDE	<1.0	1.0
1,1,1-TRICHLOROETHANE	<1.0	1.0
1,1,2-TRICHLOROETHANE	<1.0	1.0
TETRACHLOROETHENE	<1.0	1.0
TRICHLOROFLUOROMETHANE	<1.0	1.0
TRICHLOROETHENE	<1.0	1.0
VINYL CHLORIDE	<1.0	1.0



SAMPLE ID LOT # 1 - GRIFFIN

REPORT Results by Sample

Work Order # 92-01-178
Continued From Above

FRACTION 01A TEST CODE 601 NAME PURGEABLE HALOCARBONS
Date & Time Collected 01/23/92 03:30:00 Category WATER

Notes and Definitions for this Report:

EXTRACTED 01/30/92
DATE RUN 01/30/92
ANALYST PV
UNITS UG/L



REPORT Results by Sample

Work Order # 92-01-178

SAMPLE ID LOT # 1 - GRIFFIN

FRACTION 01A TEST CODE 602 NAME PURGEABLE AROMATICS
Date & Time Collected 01/23/92 03:30:00 Category WATER

PARAMETER	RESULT	DET LIMIT
BENZENE	<1.0	1.0
CHLOROBENZENE	<1.0	1.0
1,4-DICHLOROBENZENE	<1.0	1.0
1,3-DICHLOROBENZENE	<1.0	1.0
1,2-DICHLOROBENZENE	<1.0	1.0
ETHYL BENZENE	<1.0	1.0
TOLUENE	<1.0	1.0

Notes and Definitions for this Report:

EXTRACTED 01/30/92
DATE RUN 01/30/92
ANALYST PV
UNITS UG/L



REPORT Results by Sample

Work Order # 92-01-178

SAMPLE ID LOT # 2 - SYNERGY

FRACTION 02A

TEST CODE 601

NAME PURGEABLE HALOCARBONS

Date & Time Collected 01/23/92 03:30:00

Category WATER

PARAMETER	RESULT	DET LIMIT
BROMODICHLOROMETHANE	<1.0	1.0
BROMOFORM	<1.0	1.0
BROMOMETHANE	<1.0	1.0
CARBON TETRACHLORIDE	<1.0	1.0
CHLOROBENZENE	<1.0	1.0
CHLOROETHANE	<1.0	1.0
CHLOROFORM	<1.0	1.0
2-CHLOROETHYL VINYL ETHER	<1.0	1.0
CHLOROMETHANE	<1.0	1.0
DIBROMOCHLOROMETHANE	<1.0	1.0
1,2-DICHLOROBENZENE	<1.0	1.0
1,3-DICHLOROBENZENE	<1.0	1.0
1,4-DICHLOROBENZENE	<1.0	1.0
DICHLORODIFLUOROMETHANE	<1.0	1.0
1,1-DICHLOROETHANE	<1.0	1.0
1,2-DICHLOROETHANE	<1.0	1.0
1,1-DICHLOROETHENE	<1.0	1.0
trans-1,2-DICHLOROETHENE	<1.0	1.0
1,2-DICHLOROPROPANE	<1.0	1.0
cis-1,3-DICHLOROPROPENE	<1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1.0	1.0
trans-1,3-DICHLOROPROPENE	<1.0	1.0
METHYLENE CHLORIDE	<1.0	1.0
1,1,1-TRICHLOROETHANE	<1.0	1.0
1,1,2-TRICHLOROETHANE	<1.0	1.0
TETRACHLOROETHENE	<1.0	1.0
TRICHLOROFLUOROMETHANE	<1.0	1.0
TRICHLOROETHENE	<1.0	1.0
VINYL CHLORIDE	<1.0	1.0



REPORT Results by Sample

Work Order # 92-01-178
Continued From Above

FRACTION 02A TEST CODE 601 NAME PURGEABLE HALOCARBONS
Date & Time Collected 01/23/92 03:30:00 Category WATER

Notes and Definitions for this Report:

EXTRACTED 01/30/92
DATE RUN 01/30/92
ANALYST PV
UNITS UG/L



Page 7
Received: 01/24/92

REPORT
Results by Sample

Work Order # 92-01-178

SAMPLE ID LOT # 2 - SYNERGY

FRACTION 02A TEST CODE 602 NAME PURGEABLE AROMATICS
Date & Time Collected 01/23/92 03:30:00 Category WATER

PARAMETER	RESULT	DET LIMIT
BENZENE	<1.0	1.0
CHLOROBENZENE	<1.0	1.0
1,4-DICHLOROBENZENE	<1.0	1.0
1,3-DICHLOROBENZENE	<1.0	1.0
1,2-DICHLOROBENZENE	<1.0	1.0
ETHYL BENZENE	<1.0	1.0
TOLUENE	<1.0	1.0

Notes and Definitions for this Report:

EXTRACTED 01/30/92
DATE RUN 01/30/92
ANALYST PV
UNITS UG/L



Received: 01/24/92

REPORT
Test Methodology

Work Order # 92-01-178

TEST CODE 601 NAME PURGEABLE HALOCARBONS

PURGEABLE HALOCARBONS: USEPA METHOD #601
ANALYZED ON GC-PURGE & TRAP

TEST CODE 602 NAME PURGEABLE AROMATICS

PURGEABLE AROMATICS: USEPA METHOD #602
ANALYZED ON GC-PURGE & TRAP





Laboratory Services
1331 Tasker Drive
Hobbs, New Mexico 88240
(505) 397-3713

LABORATORY DIVISION
RECEIVED
'92 JAN 23 AM 8 46

WATER ANALYSIS

COMPANY Watson, Inc.
SAMPLE Watson Well
SAMPLED BY Stan Watson

DATE TAKEN

REMARKS Water well located approximately 100 yards NE
of brine well.

Barium as Ba
Carbonate alkalinity PPM
Bicarbonate alkalinity PPM
pH At Lab
Specific Gravity @ 60 F
Magnesium as Mg
Total Hardness as CaCO3
Chlorides as CL 92
Sulfate as SO4
Iron as Fe
Potassium
Hydrogen Sulfide
Resistance Mmhoes
Total Dissolved Solids 504
Carbonate as CO3 G/L
Calcium as CA

Results reported as Parts Per Million Unless Stated.

Langelier Saturation Index

Analysis By Rolland Perry
Date: 1-8-92

Rolland Perry



Laboratory Services
1331 Tasker Drive
Hobbs, New Mexico 88240
(505) 397-3713

WATER ANALYSIS

COMPANY Watson, Inc.
SAMPLE Synergy Gas Products Well
SAMPLED BY Stan Watson

DATE TAKEN

REMARKS Business water well located approximately 250 yards
SE of Watson brine well.

Barium as Ba
Carbonate alkalinity PPM
Bicarbonate alkilinity PPM
pH At Lab
Specific Gravity @ 60 F
Magnesium as Mg
Total Hardness as CaCO3
Clorides as CL 148
Sulfate as SO4
Iron as Fe
Potassium
Hydrogen Sulfide
Resistance Mmhoes
Total Disolved Solids 590
Carbonate as CO3 G/L
Calcium as CA
Results reported as Parts Per Million Unless Stated.

Langelier Saturation Index

Analysis By: Rolland Perry
Date: 1-8-92



Laboratory Services
1331 Tasker Drive
Hobbs, New Mexico 88240
(505) 397-3713

WATER ANALYSIS

COMPANY. Watson, Inc.
SAMPLE Al Griffin Well
SAMPLED BY Stan Watson

DATE TAKEN

REMARKS Domestic water well located approximately 80 yards
SW of brine well.

Barium as Ba
Carbonate alkalinity PPM
Bicarbonate alkalinity PPM
pH At Lab
Specific Gravity @ 60 F
Magnesium as Mg
Total Hardness as CaCO₃
Chlorides as CL 98
Sulfate as SO₄
Iron as Fe
Potassium
Hydrogen Sulfide
Resistance Mmhoes
Total Dissolved Solids 490
Carbonate as CO₃ G/L
Calcium as CA
Results reported as Parts Per Million Unless Stated.

Langelier Saturation Index

Analysis By Rolland Perry
Date: 1-8-92

Rolland Perry

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700
Albuquerque, NM 87196-4700700 Camino de Salud, NE
[505]-841-2500

ORGANIC CHEMISTRY SECTION [505]-841-2570

OIL CONSERVATION DIVISION
RECEIVED
'92 JAN 9 AM 8 43

January 15, 1991

ANALYTICAL REPORT
SLD Accession No. OR-90-3636Distribution☐ User 55220
☒ Submitter 75
☒ SLD Files**To:** Honorable Betty Rickman
P.O. Box 156
Tatum City Hall
Tatum, NM 88267**From:** Organic Chemistry Section
Scientific Laboratory Div.
700 Camino de Salud, NE
Albuquerque, NM 87106**Re:** A water, purgeable sample submitted to this laboratory on December 27, 1990**DEMOGRAPHIC DATA**

<u>COLLECTION</u>		<u>LOCATION</u>
On: 20-Dec-90	By: Web . . .	Water Supply, Watson Well
At: 13:50 hrs.	In/Near: Tatum	

ANALYTICAL RESULTS: Aromatic & Halogenated Purgeable [EPA-601/2] Screen (754)

<u>Parameter</u>	<u>Value</u>	<u>Note</u>	<u>MDL</u>	<u>Units</u>
Halogenated Purgeables (33)	0.00	N	1.00	ppb

See Laboratory Remarks for Additional Information

Notations & Comments:

MDL = Minimal Detectable Level.

A = Approximate Value; N = None Detected above Detection Limit; P = Compound Present, but not quantified;
T = Trace (<Detection Limit); U = Compound Identity Not Confirmed.Evidentiary Seals: Not Sealed ☒; Intact: No ☐, Yes ☐ & Broken By: _____ Date: _____Laboratory Remarks:

One late eluting compound in the C3 substituted benzene region at trace levels ppb was detected by the photoionization detector, but not identified.

QUALITY CONTROL SUMMARY FOR VOLATILES SCREEN

METHOD BLANK: A laboratory method blank was analyzed along with this sample to assure the absence of interfering contaminants from lab reagents, instruments, or the general laboratory environment. Unless listed below, no contaminants were detected in this blank above the reported detection limit.

COMPOUND DETECTED
No Compounds Detected**CONCENTRATION (PPB)****SURROGATE RECOVERIES:**

(Continued on page 2.)

ANALYTICAL REPORT
SLD Accession No. OR-90-3636
Continuation, Page 2 of 2

SURROGATE	CONCENTRATION	% RECOVERY
Fluorobenzene	25.0 ppb	105.
2-Bromo-1-chloropropane	15.0 ppb	111.

SPIKE RECOVERY: The % recoveries for compounds in the batch spike were from 80% to 120% with the exception of the compounds listed below:

COMPOUND	CONCENTRATION	% RECOVERY
No exceptions	. ppb	.

Analyst: 

Gary C. Eden
Analyst, Organic Chemistry

1-2-91
Analysis
Date

Reviewed By: 

Richard F. Meyerhein 01/15/91
Supervisor, Organic Chemistry Section

SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud, NE

Albuquerque, NM 87106 [505]-841-2500

ORGANIC CHEMISTRY SECTION [505]-841-2570

June 16, 1989

ANALYTICAL REPORT
SLD Accession No. OR-89-0784Distribution

(■) Submitter

(※) SLD Files

To: EID Dist. #1 Office, Albuquerque
4131 Montgomery Blvd., NE
Albuquerque, NM 87109

From: Organic Chemistry Section
Scientific Laboratory Div.
700 Camino de Salud, NE
Albuquerque, NM 87106

Re: A purgeable water sample submitted to this laboratory on June 8, 1989

User:

Water Supply Section - CSB
Environmental Improvement Division
1190 St. Francis Dr.
Santa Fe, NM 87503

DEMOGRAPHIC DATA

COLLECTION		LOCATION
On: 6-Jun-89	By: Web ...	
At: 13:55 hrs.	In/Near: Tatum	

ANALYTICAL RESULTS: Aromatic & Halogenated Purgeable Screen

Parameter	Value	Note	MDL	Units
Halogenated Purgeables (33)	0.00	N	0.50	ppb
Aromatic Purgeables (6)	0.00	N	0.50	ppb

See Laboratory Remarks for Additional Information

Notations & Comments:

MDL = Minimal Detectable Level.

A = Approximate Value; N = None Detected above Detection Limit; P = Compound Present, but not quantified;

T = Trace (<Detection Limit); U = Compound Identity Not Confirmed.

Evidentiary Seals: Not Sealed ☒, Intact: No ☐, Yes ☐ & Broken By: _____ Date: _____

Laboratory Remarks: Watson Well

One late eluting compound in the C3 substituted benzene region at approximately 2ppb detected with the photo-ionization detector but not identified.

Analyst:

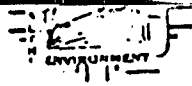
Gary C. Eden
Gary C. Eden
Analyst, Organic Chemistry

6/18/89
Analysis
Date

Reviewed By:

R. Meyerheim
Richard F. Meyerheim 06/16/89
Supervisor, Organic Chemistry Section

JUN 26 1989



SCIENTIFIC LABORATORY DIVISION
ORGANIC ANALYSIS REQUEST FORM
Organic Section - Phone: 841-2570

File #

OR89-0784-C

REPORT TO: OSCAR SIMPSON
EID ALBUQUERQUE
OFFICE

S.L.D. No. OR-
DATE REC.
PRIORITY 1.5
PHONE(S): 841-6570

COLLECTION CITY: TATUM, NM COUNTY: LEA

COLLECTION DATE/TIME CODE: (Year-Month-Day-Hour-Minute) 8/9/06 06:13:55

LOCATION CODE: (Township-Range-Section-Tracts) (10N06E24S4E)

USER CODE: 52000 SUBMITTER: BILL WEBER CODE:

SAMPLE TYPE: WATER ☒, SOIL ☐, FOOD ☐, OTHER:

This form accompanies 2 Septum Vials, Glass Jugs, and/or

Samples were preserved as follows:

- ☐ NP: No Preservation; Sample stored at room temperature.
☐ P-Ice Sample stored in an ice bath (Not Frozen).
☐ P-AA Sample Preserved with Ascorbic Acid to remove chlorine residual.
☐ P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Headspace (1-5 Carbons)
☒ (754) Aromatic & Halogenated Purgeables
☐ (765) Mass Spectrometer Purgeables
☐ (766) Trihalomethanes
☐ (774) SDWA VOC's I (3 Regulated +)
☐ (775) SDWA VOC's II (EDB & DBCP)
Other Specific Compounds or Classes

☒ MTBE
☐

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
☐ (755) Base/Neutral Extractables
☐ (753) Herbicides, Chlorophenoxy acid
☐ (759) Herbicides, Triazines
☐ (760) Organochlorine Pesticides
☐ (761) Organophosphate Pesticides
☐ (767) Polychlorinated Biphenyls (PCB's)
☐ (764) Polynuclear Aromatic Hydrocarbons
☐ (762) SDWA Pesticides & Herbicides

Remarks:

FIELD DATA:

pH= ; Conductivity= umho/cm at °C; Chlorine Residual= mg/l

Dissolved Oxygen= mg/l; Alkalinity= mg/l; Flow Rate /

Depth to water ft.; Depth of well ft.; Perforation Interval - ft.; Casing:

Sampling Location, Methods and Remarks (i.e. odors, etc.) WATSON N°1

WATER SAMPLE, WELL N°1 TAKEN AT SAMPLE
LOCK OF WELLHEAD. FOR 754 (& MTBE) ANALYSIS

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities. (signature collector): W. Weber Method of Shipment to the Lab: UPS

CHAIN OF CUSTODY

I certify that this sample was transferred from to
at (location) on / / and that

the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ OR Seals Intact: Yes ☐ JUN 26 2006

Signatures

ANALYTICAL CHEMISTRY ANALYTICAL REQUEST FORM

SCIENTIFIC LABORATORY DIVISION

700 CAMINO DE SALUD N.E., ALBUQUERQUE, NM 87106

Organic Chemistry Section - Telephone: (505) 841-2570

SLD No.

File #
90-3636-E

Date

Received: 12-27-90

2 User Code #: 55220	3 Request ID No.:	Place Form ID Sticker Here	4 Priority Code #:	(If "1" or "2", call EIO-SLD Coordinator)
5 Facility Name: TATUM WATER SUPPLY	6 County: LEA	7 City: TATUM	8 State: NM	
9 Sample Location: WAITISON WELLS				
10 Collected By: WILLIAM WEBER		On: 90/12/20	At: 1:350	hrs.
First Last		Date: (YY/MM/DD)	Time: 24 hr. clock 3:00 pm = 1500 hrs.	
11 Codes: 075	Submitter	WSS #	Organization	
13 Report Name: HONORABLE BETTY RICKMAN	14 Phone #: (505) 398-4633			
Address: P.O. Box 156				
TATUM CITY HALL				
City, State Zip: TATUM, NM 88267				
16 Field Data: pH: Conductivity: umhos @ C. Temperature: Chlorine Residual: mg/l. Flow:				
17 Sample Source: <input type="checkbox"/> Stream <input checked="" type="checkbox"/> Well; Depth: <input type="checkbox"/> Lake <input type="checkbox"/> Spring <input type="checkbox"/> Drain <input type="checkbox"/> Distribution <input type="checkbox"/> Pool <input type="checkbox"/> Point-of-Entry <input type="checkbox"/> WWTP <input type="checkbox"/> Other:		18 Field Notes/ Sample #: WIND MADE SAMPLE TAKING DIFFICULT. THIS WAS SOURCE OF WATER FOR DRILLING FLUID FOR WELL NO. 5		
19 Sample Type: <input checked="" type="checkbox"/> Water, <input type="checkbox"/> Soil, <input type="checkbox"/> Food, <input type="checkbox"/> Wastewater, <input type="checkbox"/> Other This form accompanies a single sample consisting of: 4 septum vial(s) (volume = 160 ML) glass jugs (volume =) (volume =)		20 Preservation: <input type="checkbox"/> NP No Preservation; Sample stored at room temperature <input checked="" type="checkbox"/> P-Ice Sample stored in an ice bath (Not Frozen) <input type="checkbox"/> P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual <input checked="" type="checkbox"/> P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml) <input type="checkbox"/> Other		

21 Analyses Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required.

Volatile Screens:

- ☐ - (753) Aliphatic Headspace (1-5 Carbons)
☒ - (754) Aromatic & Halogenated Purgeables (EPA 601 & 602)
☐ - (765) Mass Spectrometer Purgeables (EPA 624)
☐ - (766) SDWA Total Trihalomethanes (EPA 501.1)
☐ - (774) SDWA VOC's I [8 Regulated +] (EPA 502.2)
☐ - (775) SDWA VOC's II [EDB & DBCP] (EPA 504)

Other Specific Compounds or Classes:

- ☐ - { }
☐ - { }
☐ - { }

Semivolatile Screens:

- ☐ - (763) Acid Extractables
☐ - (751) Aliphatic Hydrocarbons
☐ - (755) Base/Neutral Extractables (EPA 625)
☐ - (756) Base/Neutral/Acid Extractables (EPA 8270)
☐ - (758) Herbicides, Chlorophenoxy Acid
☐ - (759) Herbicides, Triazines
☐ - (760) Organochlorine Pesticides
☐ - (761) Organophosphate Pesticides
☐ - (767) Polychlorinated Biphenyls (PCB's)
☐ - (764) Polynuclear Aromatic Hydrocarbons
☐ - (762) SDWA Pesticides & Herbicides

Remarks: EXTRA VIALS SENT TO ENSURE ADEQUATE VOLUME
FOR CHECK.

PLEASE NOTE: ATTENTION, MARY NICKELS

PERMIAN

Treating Chemicals, Inc.

OIL CONSERVATION DIVISION
RECEIVED

'91 DEC 23 AM 9 19

P. O. BOX 815
TATUM, NM 88267
PHONE (505) 398-4111

WATER ANALYSIS REPORT

Company Al Griffin - Owner Date Samples 12/20/91
Field _____ County Lea
Lease _____ State New Mexico
Well Submersible Pump Formation Fresh Water
Type of Water Fresh - Domestic Water, B/D _____
Sampling Point Faucet Sampled By [Signature]

DISSOLVED SOLIDS

CATIONS

	mg/l	meq/l
Sodium, Na+(Calc)	<u> </u> ÷ 23	<u> </u>
Calcium, Ca++	<u> </u> ÷ 20	<u> </u>
Magnesium, Mg++	<u> </u> ÷ 12.2	<u> </u>
Barium, Ba++	<u> </u> ÷ 68.7	<u> </u>
Iron, Fe (Total	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

ANIONS

Chloride, Cl-	<u>115 ppm</u> ÷ 35.5	<u> </u>
Sulfate, So4=	<u> </u> ÷ 48	<u> </u>
Carbonate, Co3=	<u> </u> ÷ 30	<u> </u>
Bicarbonate, HCo3-	<u> </u> ÷ 61	<u> </u>
<u> </u>	<u> </u>	<u> </u>

OTHER PROPERTIES

PH
Specific Gravity
H2S
Total Dissolved
Solids
Total Hardness

Remarks and Recommendations Domestic water well located approximately 80 yards SW of
brine well.

PERMIAN

Treating Chemicals, Inc.

P. O. BOX 815
TATUM, NM 88267
PHONE (505) 398-4111

WATER ANALYSIS REPORT

Company Mr. Tillman Date Samples 12/20/91
Field _____ County Lea
Lease _____ State New Mexico
Well Submersible Pump Formation Fresh Water
Type of Water Fresh - Domestic Water, B/D _____
Sampling Point Faucet Sampled By Gale LaChew

DISSOLVED SOLIDS

CATIONS

mg/l

meq/l

Sodium, Na+(Calc)	<u> </u>	\div 23	<u> </u>
Calcium, Ca++	<u> </u>	\div 20	<u> </u>
Magnesium, Mg++	<u> </u>	\div 12.2	<u> </u>
Barium, Ba++	<u> </u>	\div 68.7	<u> </u>
Iron, Fe (Total	<u> </u>		<u> </u>
<u> </u>	<u> </u>		<u> </u>
<u> </u>	<u> </u>		<u> </u>

ANIONS

Chloride, Cl-	<u>70 ppm</u>	\div 35.5	<u> </u>
Sulfate, So ₄ =	<u> </u>	\div 48	<u> </u>
Carbonate, Co ₃ =	<u> </u>	\div 30	<u> </u>
Bicarbonate, HCo ₃ -	<u> </u>	\div 61	<u> </u>
<u> </u>	<u> </u>		<u> </u>

OTHER PROPERTIES

PH
Specific Gravity
H₂S
Total Dissolved
Solids
Total Hardness

Remarks and Recommendations Well located approximately 100 yards NW of Watson brine well.

PERMIAN

Treating Chemicals, Inc.

P. O. BOX 815
TATUM, NM 88267
PHONE (505) 398-4111

WATER ANALYSIS REPORT

Company Allen Benson Date Samples 12/20/91
Field _____ County Lea
Lease _____ State New Mexico
Well Submersible Pump Formation Fresh Water
Type of Water Fresh - Domestic Water, B/D _____
Sampling Point Faucet Sampled By Gale Blackwell

DISSOLVED SOLIDS

CATIONS

mg/l

meq/l

Sodium, Na+(Calc)	<u> </u> ÷ 23	<u> </u>
Calcium, Ca++	<u> </u> ÷ 20	<u> </u>
Magnesium, Mg++	<u> </u> ÷ 12.2	<u> </u>
Barium, Ba++	<u> </u> ÷ 68.7	<u> </u>
Iron, Fe (Total	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

ANIONS

Chloride, Cl-	<u>100 ppm</u> ÷ 35.5	<u> </u>
Sulfate, So ₄ =	<u> </u> ÷ 48	<u> </u>
Carbonate, Co ₃ =	<u> </u> ÷ 30	<u> </u>
Bicarbonate, HCo ₃ -	<u> </u> ÷ 61	<u> </u>
<u> </u>	<u> </u>	<u> </u>

OTHER PROPERTIES

PH
Specific Gravity
H₂S
Total Dissolved
Solids
Total Hardness

Remarks and Recommendations Water well located approximately 100 yards SW of Watson
brine well.

PERMIAN

Treating Chemicals, Inc.

P. O. BOX 815
TATUM, NM 88267
PHONE (505) 398-4111

WATER ANALYSIS REPORT

Company Watson Date Samples 12/20/91
Field _____ County Lea
Lease _____ State New Mexico
Well Submersible Pump Formation Fresh Water
Type of Water Fresh - Domestic Water, B/D _____
Sampling Point Faucet Sampled By Gale Blackwell

DISSOLVED SOLIDS

CATIONS	mg/l	meq/l
Sodium, Na+(Calc)	<u> </u> ÷ 23	<u> </u>
Calcium, Ca++	<u> </u> ÷ 20	<u> </u>
Magnesium, Mg++	<u> </u> ÷ 12.2	<u> </u>
Barium, Ba++	<u> </u> ÷ 68.7	<u> </u>
Iron, Fe (Total	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

OTHER PROPERTIES

PH
Specific Gravity
H₂S
Total Dissolved
Solids
Total Hardness

ANIONS

Chloride, Cl-	<u>30.0 ppm</u> ÷ 35.5	<u> </u>
Sulfate, So ₄ =	<u> </u> ÷ 48	<u> </u>
Carbonate, Co ₃ =	<u> </u> ÷ 30	<u> </u>
Bicarbonate, HCo ₃ -	<u> </u> ÷ 61	<u> </u>
<u> </u>	<u> </u>	<u> </u>

Remarks and Recommendations Water well located approximately 100 yards NE of brine well.

PERMIAN

Treating Chemicals, Inc.

P. O. BOX 815
TATUM, NM 88267
PHONE (505) 398-4111

WATER ANALYSIS REPORT

Company Buckeye Gas Products Date Samples 12/20/91
Field _____ County Lea
Lease _____ State New Mexico
Well Submersible Pump Formation Fresh Water
Type of Water Fresh - Domestic Water, B/D _____
Sampling Point Faucet Sampled By Tale Buckwell

DISSOLVED SOLIDS

CATIONS	mg/l	meq/l
Sodium, Na+(Calc)	<u> </u> ÷ 23	<u> </u>
Calcium, Ca++	<u> </u> ÷ 20	<u> </u>
Magnesium, Mg++	<u> </u> ÷ 12.2	<u> </u>
Barium, Ba++	<u> </u> ÷ 68.7	<u> </u>
Iron, Fe (Total	<u> </u>	<u> </u>
_____	<u> </u>	<u> </u>
_____	<u> </u>	<u> </u>

OTHER PROPERTIES

PH
Specific Gravity
H₂S
Total Dissolved
Solids
Total Hardness

ANIONS

Chloride, Cl-	<u>170 ppm</u> ÷ 35.5	<u> </u>
Sulfate, So ₄ =	<u> </u> ÷ 48	<u> </u>
Carbonate, Co ₃ =	<u> </u> ÷ 30	<u> </u>
Bicarbonate, HCo ₃ -	<u> </u> ÷ 61	<u> </u>
_____	<u> </u>	<u> </u>

Remarks and Recommendations Business water well located approximately 250 yards SE
of Watson brine well.

PERMIAN

Treating Chemicals, Inc.

P. O. BOX 815
TATUM, NM 88267
PHONE (505) 398-4111

WATER ANALYSIS REPORT

Company Al Griffin - Owner Date Samples 10/2/91
Field _____ County Lea
Lease _____ State New Mexico
Well Submersible Pump Formation Fresh Water
Type of Water Fresh - Domestic Water, B/D _____
Sampling Point Faucet Sampled By Gale Blackwell

DISSOLVED SOLIDS

CATIONS

mg/l

meq/l

Sodium, Na+(Calc)	_____	÷ 23	_____
Calcium, Ca++	_____	÷ 20	_____
Magnesium, Mg++	_____	÷ 12.2	_____
Barium, Ba++	_____	÷ 68.7	_____
Iron, Fe (Total	_____		_____
_____	_____		_____
_____	_____		_____

OTHER PROPERTIES

PH _____
Specific Gravity _____
H₂S _____
Total Dissolved _____
Solids _____
Total Hardness _____

ANIONS

Chloride, Cl-	<u>115ppm</u>	÷ 35.5	_____
Sulfate, So ₄ =	_____	÷ 48	_____
Carbonate, Co ₃ =	_____	÷ 30	_____
Bicarbonate, HCo ₃ -	_____	÷ 61	_____
_____	_____		_____

Remarks and Recommendations Domestic water well located approximately 80 yards SW of
brine well.

PERMIAN

Treating Chemicals, Inc.

P. O. BOX 815
TATUM, NM 88267
PHONE (505) 398-4111

WATER ANALYSIS REPORT

Company Mr. Tillman Date Samples 10/2/91
Field _____ County Lea
Lease _____ State New Mexico
Well Submersible Pump Formation Fresh Water
Type of Water Fresh - Domestic Water, B/D _____
Sampling Point Faucet Sampled By Gale Blackwell

DISSOLVED SOLIDS

CATIONS

mg/l

meq/l

Sodium, Na+(Calc)	<u> </u>	<u>÷ 23</u>	<u> </u>
Calcium, Ca++	<u> </u>	<u>÷ 20</u>	<u> </u>
Magnesium, Mg++	<u> </u>	<u>÷ 12.2</u>	<u> </u>
Barium, Ba++	<u> </u>	<u>÷ 68.7</u>	<u> </u>
Iron, Fe (Total	<u> </u>		<u> </u>
<u> </u>	<u> </u>		<u> </u>
<u> </u>	<u> </u>		<u> </u>

OTHER PROPERTIES

PH
Specific Gravity
H₂S
Total Dissolved
Solids
Total Hardness

ANIONS

Chloride, Cl-	<u>70 ppm</u>	<u>÷ 35.5</u>	<u> </u>
Sulfate, SO ₄ =	<u> </u>	<u>÷ 48</u>	<u> </u>
Carbonate, CO ₃ =	<u> </u>	<u>÷ 30</u>	<u> </u>
Bicarbonate, HCO ₃ -	<u> </u>	<u>÷ 61</u>	<u> </u>
<u> </u>	<u> </u>		<u> </u>

Remarks and Recommendations Well located approximately 100 yards NW of Watson brine well.

PERMIAN

Treating Chemicals, Inc.

P. O. BOX 815
TATUM, NM 88267
PHONE (505) 398-4111

WATER ANALYSIS REPORT

Company Allen Benson Date Samples 10/2/91
Field _____ County Lea
Lease _____ State New Mexico
Well Submersible Pump Formation Fresh Water
Type of Water Fresh - Domestic Water, B/D _____
Sampling Point Faucet Sampled By Gale Blackwell

DISSOLVED SOLIDS

CATIONS

mg/l

meq/l

Sodium, Na+(Calc)	_____ ÷ 23	_____
Calcium, Ca++	_____ ÷ 20	_____
Magnesium, Mg++	_____ ÷ 12.2	_____
Barium, Ba++	_____ ÷ 68.7	_____
Iron, Fe (Total	_____	_____
_____	_____	_____
_____	_____	_____

ANIONS

Chloride, Cl-	<u>100 ppm</u> ÷ 35.5	_____
Sulfate, So ₄ =	_____ ÷ 48	_____
Carbonate, Co ₃ =	_____ ÷ 30	_____
Bicarbonate, HCo ₃ -	_____ ÷ 61	_____
_____	_____	_____

OTHER PROPERTIES

PH _____
Specific Gravity _____
H₂S _____
Total Dissolved _____
Solids _____
Total Hardness _____

Remarks and Recommendations Water well located approximately 100 yards SW of Watson
brine well.

PERMIAN

Treating Chemicals, Inc.

P. O. BOX 815
TATUM, NM 88267
PHONE (505) 398-4111

WATER ANALYSIS REPORT

Company ✓ Watson Date Samples 10/2/91
Field _____ County Lea
Lease _____ State New Mexico
Well Submersible Pump Formation Fresh Water
Type of Water Fresh - Domestic Water, B/D _____
Sampling Point Faucet Sampled By Gale Blackwell

DISSOLVED SOLIDS

CATIONS

mg/l

meq/l

Sodium, Na+(Calc)	_____ ÷ 23	_____
Calcium, Ca++	_____ ÷ 20	_____
Magnesium, Mg++	_____ ÷ 12.2	_____
Barium, Ba++	_____ ÷ 68.7	_____
Iron, Fe (Total	_____	_____
_____	_____	_____
_____	_____	_____

ANIONS

Chloride, Cl-	<u>30.0 ppm</u> ÷ 35.5	_____
Sulfate, So ₄ =	_____ ÷ 48	_____
Carbonate, Co ₃ =	_____ ÷ 30	_____
Bicarbonate, HCo ₃ -	_____ ÷ 61	_____
_____	_____	_____

OTHER PROPERTIES

PH _____
Specific Gravity _____
H₂S _____
Total Dissolved _____
Solids _____
Total Hardness _____

Remarks and Recommendations Water well located approximately 100 yards NE of brine well.

PERMIAN

Treating Chemicals, Inc.

P. O. BOX 815
TATUM, NM 88267
PHONE (505) 398-4111

WATER ANALYSIS REPORT

Company ✓ Buckeye Gas Products Date Samples 10/2/91
Field _____ County Lea
Lease _____ State New Mexico
Well Submersible Pump Formation Fresh Water
Type of Water Fresh - Domestic Water, B/D _____
Sampling Point Faucet Sampled By Gale Blackwell

DISSOLVED SOLIDS

CATIONS

mg/l

meq/l

Sodium, Na+(Calc)	_____ ÷ 23	_____
Calcium, Ca++	_____ ÷ 20	_____
Magnesium, Mg++	_____ ÷ 12.2	_____
Barium, Ba++	_____ ÷ 68.7	_____
Iron, Fe (Total	_____	_____
_____	_____	_____
_____	_____	_____

ANIONS

Chloride, Cl-	<u>170 ppm</u> ÷ 35.5	_____
Sulfate, So ₄ =	_____ ÷ 48	_____
Carbonate, Co ₃ =	_____ ÷ 30	_____
Bicarbonate, HCo ₃ -	_____ ÷ 61	_____
_____	_____	_____

OTHER PROPERTIES

PH _____
Specific Gravity _____
H₂S _____
Total Dissolved _____
Solids _____
Total Hardness _____

Remarks and Recommendations Business water well located approximately 250 yards SE
of Watson brine well.

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

RECEIVED

MAR 01 1989

GROUND WATER BUREAU

WATER ANALYSIS REPORT FORM

WELL OWNERSHIP: Watson WELL #: _____
LAND STATUS: STATE _____ FEDERAL _____ FEE _____
WELL LOCATION: Unit Letter _____ Section _____ Township _____ Range _____
QUARTER/QUARTER - FOOTAGE LOCATION: West Tatum area
WELL TYPE: Water well DEPTH _____ feet
WELL USE: Water supply for brine

SAMPLE NUMBER: _____ TAKEN BY: Stanley Watson
DATE: 2/6/89

Specific Conductance: 1175 m μ
Total dissolved solids: 822.5 PPM
Chlorides: 85.2 PPM
Sulfates: _____ PPM
Ortho-phosphates: Very Low _____ Low _____ Med _____ Hi _____
Sulfides: None _____ Low _____ Med _____ Hi _____
OTHER: _____

DATE ANALYZED: 2/8/89 BY: Eddie W. Seay
OIL CONSERVATION DIVISION

REMARKS: 25 ml 142 X .6 titration = 85.2 ppm Cl

SC 1175 Parts - metered

TDS 822.5 - calculated

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

RECEIVED

MAR 01 1989

GROUND WATER BUREAU

WATER ANALYSIS REPORT FORM

WELL OWNERSHIP: Al Griffin WELL #: _____
LAND STATUS: STATE _____ FEDERAL _____ FEE _____
WELL LOCATION: Unit Letter _____ Section _____ Township _____ Range _____
QUARTER/QUARTER - FOOTAGE LOCATION: West Tatum area
WELL TYPE: Water well - sub. pump DEPTH _____ feet
WELL USE: Domestic

SAMPLE NUMBER: _____ TAKEN BY: Stanley Watson
DATE: 2/6/89

Specific Conductance: 1060 m μ
Total dissolved solids: 742 PPM
Chlorides: 85.2 PPM
Sulfates: _____ PPM
Ortho-phosphates: Very Low _____ Low _____ Med _____ Hi _____
Sulfides: None _____ Low _____ Med _____ Hi _____
OTHER: _____

DATE ANALYZED: 2/8/89 BY: Eddie W. Seay
OIL CONSERVATION DIVISION

REMARKS: 25 ml sample 142 X .6 titration = 85.2 ppm

SC 1060 parts - metered

TDS 1060 X .7 = 742 ppm - Calculated

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

RECEIVED

MAR 01 1989

WATER ANALYSIS REPORT FORM

GROUND WATER BUREAU

WELL OWNERSHIP: Union Gas Co. WELL #: _____

LAND STATUS: STATE _____ FEDERAL _____ FEE _____

WELL LOCATION: Unit Letter _____ Section _____ Township _____ Range _____

QUARTER/QUARTER - FOOTAGE LOCATION: West Tatum Area

WELL TYPE: Water well - sub. pump DEPTH _____ feet

WELL USE: _____

SAMPLE NUMBER: _____ TAKEN BY: Stanley Watson

DATE: 2/6/89

Specific Conductance: 1425 m_h
Total dissolved solids: 997.5 PPM
Chlorides: 56.8 PPM
Sulfates: _____ PPM
Ortho-phosphates: Very Low _____ Low _____ Med _____ Hi _____
Sulfides: None _____ Low _____ Med _____ Hi _____
OTHER: _____

DATE ANALYZED: 2/8/89 BY: Eddie W. Seay

OIL CONSERVATION DIVISION

REMARKS: 25 ml sample 142 X .4 titration = 56.8 ppm Cl

SC 1425 parts - metered

TDS 997.5 ppm - calculated

PERMIAN

Treating Chemicals, Inc.

RECEIVED
MAR 01 1989

P. O. BOX 728
LOVINGTON, NM 88260
PHONE (505) 396-5674

GROUND WATER BUREAU

WATER ANALYSIS REPORT

Company AL Griffin Date Sampled 10-22-88
Field Tatum County LEA
Lease _____ State NM
Well Water Well Formation Dom
Type of Water _____ Water, B/D _____
Sampling Point _____ Sampled By Hemann

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS

mg/l

meq/l

pH

Sodium, Na+(Calc)

÷ 23

Specific Gravity

Calcium, Ca++

÷ 20

1000

Magnesium, Mg++

÷ 12.2

H₂S

Barium, Ba++

÷ 68.7

Total Dissolved

Iron, Fe (Total)

Solids 700

Total Hardness

ANIONS

Chloride, Cl-

99.4

÷ 35.5

Sulfate, So₄=

÷ 48

Carbonate, Co₃=

÷ 30

Bicarbonate, HCo₃-

÷ 61

Remarks and Recommendations 25 ml sample 142 X.7 = 99.4 ppm CL

1000 SC X.7 FAC = 700 ppm

PERMIAN

Treating Chemicals, Inc.

RECEIVED

MAR 01 1989

GROUND WATER BUREAU

P. O. BOX 728
LOVINGTON, NM 88260
PHONE (505) 396-5674

WATER ANALYSIS REPORT

Company Union LP Gas Date Sampled 10-20-88
Field Tatum County LEA
Lease _____ State NM
Well WATER WELL Formation Dom.
Type of Water _____ Water, B/D _____
Sampling Point _____ Sampled By HEMANN

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS

mg/l

meq/l

pH

Sodium, Na+(Calc)

÷ 23

Specific Gravity

Calcium, Ca++

÷ 20

1.570

Magnesium, Mg++

÷ 12.2

H₂S

Barium, Ba++

÷ 68.7

Total Dissolved

Iron, Fe (Total)

Solids 1099

Total Hardness

ANIONS

Chloride, Cl-

85.2 ÷ 35.5

Sulfate, So₄=

÷ 48

Carbonate, Co₃=

÷ 30

Bicarbonate, HCo₃-

÷ 61

Remarks and Recommendations 25 ml sample 142 X .6 = 85.2 ppm CL

1570 sc X .7 FAC = 1099 ppm

PERMIAN

Treating Chemicals, Inc.

RECEIVED

MAR 01 1989

GROUND WATER BUREAU

P.O. BOX 728

LOVINGTON, NM 88260

PHONE (505) 396-5674

WATER ANALYSIS REPORT

Company Quality BRINE Date Sampled 10-20-88
Field Tatum County LEA
Lease _____ State NM
Well Watson Formation IRR.
Type of Water WATER WELL Water, B/D _____
Sampling Point _____ Sampled By HEMANH

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS

mg/l

meq/l

pH

Sodium, Na+(Calc)

÷ 23

Specific Gravity

Calcium, Ca++

÷ 20

1.050

Magnesium, Mg++

÷ 12.2

H₂S

Barium, Ba++

÷ 68.7

Total Dissolved

Iron, Fe (Total)

Solids 735

Total Hardness

ANIONS

Chloride, Cl-

85.2

÷ 35.5

Sulfate, So₄=

÷ 48

Carbonate, Co₃=

÷ 30

Bicarbonate, HCo₃-

÷ 61

Remarks and Recommendations 25 ml sample. 142 X .7 = 85.2 ppm Cl

1050 sc X .7 Fac = 735 ppm

QUALITY BRINE
TATUM, N.M.

10-28-88

Brine Water Sales	1350
Fresh Water Sales	2900

RECEIVED
NOV 15 1988
GROUND WATER BUREAU

RECEIVED

JUL 20 1988

GROUND WATER BUREAU

QUALITY BRINE

TATUM, NEW MEXICO

Fresh Water	4,000 BBLS
Brine Water	3,400 BBLS

July, 1988

R E C E I V E D

JUL 20 1988

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

GROUND WATER BUREAU

WATER ANALYSIS REPORT FORM

WELL OWNERSHIP: Al Griffin WELL #: _____
LAND STATUS: STATE _____ FEDERAL _____ FEE _____
WELL LOCATION: Unit Letter _____ Section _____ Township _____ Range _____
QUARTER/QUARTER - FOOTAGE LOCATION: West Tatum Area
WELL TYPE: Water well - sub. pump DEPTH _____ feet
WELL USE: Domestic

SAMPLE NUMBER: _____ TAKEN BY: Stanley Watson
DATE: 7/8/88

Specific Conductance: 1350 m/s
Total dissolved solids: 945 PPM
Chlorides: 184.6 PPM
Sulfates: _____ PPM
Ortho-phosphates: Very Low _____ Low _____ Med _____ Hi _____
Sulfides: None _____ Low _____ Med _____ Hi _____
OTHER: _____

DATE ANALYZED: 7/13/88 BY: Eddie W. Seay
OIL CONSERVATION DIVISION

REMARKS: 25 ml sample 142 X 1.3 = 184.6 ppm Cl

SC 1350 metered

1350 X .7 = 945 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS REPORT FORM

WELL OWNERSHIP: Watson WELL #: _____
LAND STATUS: STATE _____ FEDERAL _____ FEE _____
WELL LOCATION: Unit Letter _____ Section _____ Township _____ Range _____
QUARTER/QUARTER - FOOTAGE LOCATION: West Tatum Area
WELL TYPE: Water well DEPTH _____ feet
WELL USE: Water supply for brine

SAMPLE NUMBER: _____ TAKEN BY: Stanley Watson
DATE: 7/8/88

Specific Conductance: 1050 m/h
Total dissolved solids: 735 PPM
Chlorides: 99.4 PPM
Sulfates: _____ PPM
Ortho-phosphates: Very Low _____ Low _____ Med _____ Hi _____
Sulfides: None _____ Low _____ Med _____ Hi _____
OTHER: _____

DATE ANALYZED: 7/13/88 BY: Eddie W. Seay
OIL CONSERVATION DIVISION

REMARKS: 25 ml sample 142 X .7 = 99.4 ppm Cl

SC 1050 metered

1050 X .7 = 735 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS REPORT FORM

WELL OWNERSHIP: Union Gas Co. WELL #: _____
LAND STATUS: STATE _____ FEDERAL _____ FEE _____
WELL LOCATION: Unit Letter _____ Section _____ Township _____ Range _____
QUARTER/QUARTER - FOOTAGE LOCATION: West Tatum Area
WELL TYPE: Water well - sub. pump DEPTH _____ feet
WELL USE: Domestic

SAMPLE NUMBER: _____ TAKEN BY: Stanley Watson
DATE: 7/8/88

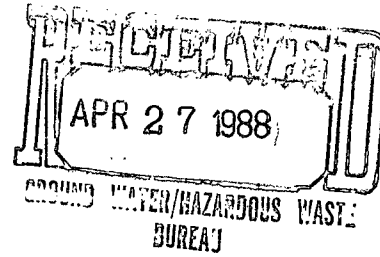
Specific Conductance: 1400 m_h
Total dissolved solids: 980 PPM
Chlorides: 170.4 PPM
Sulfates: _____ PPM
Ortho-phosphates: Very Low _____ Low _____ Med _____ Hi _____
Sulfides: None _____ Low _____ Med _____ Hi _____
OTHER: _____

DATE ANALYZED: 7/13/88 BY: Eddie W. Seay
OIL CONSERVATION DIVISION

REMARKS: 25 ml sample 142 X 1.2 = 170.4 ppm Cl

S C 1400 metered
1400 X .7 = 980 ppm

QUALITY BRINE



Tatum, NM

April 26, 1988

Brine Water Sales	3900 BBLS
Fresh Water Sales	4350 BBLS

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS REPORT FORM

WELL OWNERSHIP: Union Gas Co. WELL #: _____
LAND STATUS: STATE _____ FEDERAL _____ FEE _____
WELL LOCATION: Unit Letter _____ Section _____ Township _____ Range _____
QUARTER/QUARTER - FOOTAGE LOCATION: Tatum Area
WELL TYPE: Water well - sub. pump DEPTH _____ feet
WELL USE: Domestic

SAMPLE NUMBER: _____ TAKEN BY: Stanley Watson
DATE: 4/11/88

Specific Conductance: 1450 ma
Total dissolved solids: 1015 * PPM
Chlorides: 99.4 PPM
Sulfates: _____ PPM
Ortho-phosphates: Very Low _____ Low _____ Med _____ Hi _____
Sulfides: None _____ Low _____ Med _____ Hi _____
OTHER: _____

DATE ANALYZED: 4/14/88

BY: Eddie W. Seay
OIL CONSERVATION DIVISION

REMARKS: 25 ml sample 142 X .7 = 99.4

1450 sc X .7 = 1015 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS REPORT FORM

WELL OWNERSHIP: Al Griffin WELL #: _____
LAND STATUS: STATE _____ FEDERAL _____ FEE _____
WELL LOCATION: Unit Letter _____ Section _____ Township _____ Range _____
QUARTER/QUARTER - FOOTAGE LOCATION: Tatum Area
WELL TYPE: Water well Sub. pump DEPTH _____ feet
WELL USE: Domestic

SAMPLE NUMBER: _____ TAKEN BY: Stanley Watson
DATE: 4/11/88

Specific Conductance: 1100 m/h
Total dissolved solids: 700 PPM
Chlorides: 85.2 PPM
Sulfates: _____ PPM
Ortho-phosphates: Very Low _____ Low _____ Med _____ Hi _____
Sulfides: None _____ Low _____ Med _____ Hi _____
OTHER: _____

DATE ANALYZED: 4/14/88

BY: Eddie W. Seay
OIL CONSERVATION DIVISION

REMARKS: 25 ml sample 142 X .6 titration = 85.2 ppm Cl
1100 sc X .7 = 770 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS REPORT FORM

WELL OWNERSHIP: Watson WELL #: _____
LAND STATUS: STATE _____ FEDERAL _____ FEE _____
WELL LOCATION: Unit Letter _____ Section _____ Township _____ Range _____
QUARTER/QUARTER - FOOTAGE LOCATION: Tatum Area
WELL TYPE: Water well DEPTH _____ feet
WELL USE: Water supply for brine

SAMPLE NUMBER: _____ TAKEN BY: Stanley Watson
DATE: 4/11/88

Specific Conductance: 990 m/h
Total dissolved solids: 693 PPM
Chlorides: 85.2 PPM
Sulfates: _____ PPM
Ortho-phosphates: Very Low _____ Low _____ Med _____ Hi _____
Sulfides: None _____ Low _____ Med _____ Hi _____
OTHER: _____

DATE ANALYZED: 4/14/88

BY: Eddie W. Seay
OIL CONSERVATION DIVISION

REMARKS: 25 ml 142 X .6 = 85.2 ppm Cl

990 sc X .7 = 693 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS REPORT FORM

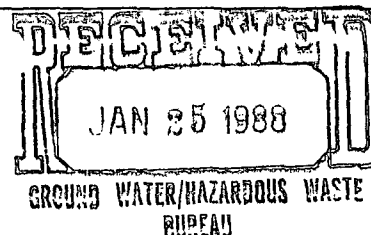
WELL OWNERSHIP: Union Gas Co. WELL #: _____
LAND STATUS: STATE _____ FEDERAL _____ FEE _____
WELL LOCATION: Unit Letter _____ Section _____ Township _____ Range _____
QUARTER/QUARTER - FOOTAGE LOCATION: Tatum Area
WELL TYPE: Water Well DEPTH _____ feet
WELL USE: Domestic

SAMPLE NUMBER: _____ TAKEN BY: Stanley Watson
DATE: 1/13/88

Specific Conductance: 1570 m/h
Total dissolved solids: 1099 * PPM
Chlorides: 85.2 PPM
Sulfates: _____ PPM
Ortho-phosphates: Very Low _____ Low _____ Med _____ Hi _____
Sulfides: None _____ Low _____ Med _____ Hi _____
OTHER: _____

DATE ANALYZED: 1/15/88 BY: Eddie W. Seay
OIL CONSERVATION DIVISION

REMARKS: 25 ml sample 142 X .6 = 85.2 ppm Cl
1570 sc X .7 factor = 1099 ppm



ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS REPORT FORM

WELL OWNERSHIP: Al Griffin WELL #: _____
LAND STATUS: STATE _____ FEDERAL _____ FEE _____
WELL LOCATION: Unit Letter _____ Section _____ Township _____ Range _____
QUARTER/QUARTER - FOOTAGE LOCATION: Tatum Area
WELL TYPE: Water Well DEPTH _____ feet
WELL USE: Domestic

SAMPLE NUMBER: _____ TAKEN BY: Stanley Watson
DATE: 1/13/88

Specific Conductance: 1000 m μ
Total dissolved solids: 700 PPM
Chlorides: 99.4 PPM
Sulfates: _____ PPM
Ortho-phosphates: Very Low _____ Low _____ Med _____ Hi _____
Sulfides: None _____ Low _____ Med _____ Hi _____
OTHER:

DATE ANALYZED: 1/15/88 BY: Eddie W. Seay
OIL CONSERVATION DIVISION

REMARKS: 25 ml 142 X .7 = 99.4 ppm Cl
1000 sc X .7 factor = 700 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS REPORT FORM

WELL OWNERSHIP: Watson WELL #: _____
LAND STATUS: STATE _____ FEDERAL _____ FEE _____
WELL LOCATION: Unit Letter _____ Section _____ Township _____ Range _____
QUARTER/QUARTER - FOOTAGE LOCATION: Tatum Area
WELL TYPE: Water well DEPTH _____ feet
WELL USE: Water supply for brine well

SAMPLE NUMBER: _____ TAKEN BY: Stanley Watson
DATE: 1/13/88

Specific Conductance: 1050 m/s
Total dissolved solids: 735 PPM
Chlorides: 85.2 PPM
Sulfates: _____ PPM
Ortho-phosphates: Very Low _____ Low _____ Med _____ Hi _____
Sulfides: None _____ Low _____ Med _____ Hi _____
OTHER: _____

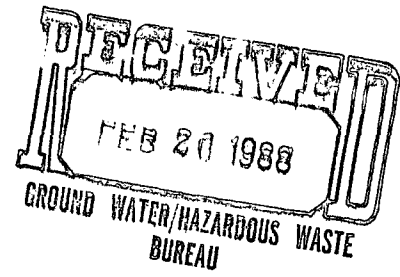
DATE ANALYZED: 1/15/88 BY: Eddie W. Seay
OIL CONSERVATION DIVISION

REMARKS: 25 ml sample 142 X .7 = 85.2 ppm Cl
1050 sc X .7 factor = 735 ppm

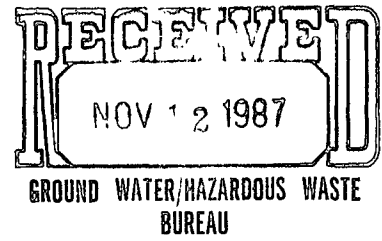
QUALITY BRINE

TATUM, N. M.

1-15-88



Brine Water Sales	2450
Fresh Water Sales	3700



Quality Brine
Tatum, New Mexico
10-30-87

Brine Water Sales	2700 BBLS
Fresh Water Sales	3250 BBLS

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS REPORT FORM

WELL OWNERSHIP: Union Gas Co. WELL #: _____
LAND STATUS: STATE _____ FEDERAL _____ FEE _____
WELL LOCATION: Unit Letter _____ Section _____ Township _____ Range _____
QUARTER/QUARTER - FOOTAGE LOCATION: Tatum Area
WELL TYPE: Water well DEPTH _____ feet
WELL USE: Domestic

SAMPLE NUMBER: _____ TAKEN BY: Stanley Watson
DATE: 10/3/87

Specific Conductance: 1500 m/s
Total dissolved solids: 1050* PPM
Chlorides: 85.2 PPM
Sulfates: _____ PPM
Ortho-phosphates: Very Low _____ Low _____ Med _____ Hi _____
Sulfides: None _____ Low _____ Med _____ Hi _____
OTHER: _____

DATE ANALYZED: 10/4/87

BY: Eddie W. Seay
OIL CONSERVATION DIVISION

REMARKS: 25 ml sample 142 X .6 titration = 85.2 ppm Cl
1500 sc X .7 factor = 1050 TDS

WATER WELL located Approx. 150 yards SE of
Quality BRINE WELL. Tatum NM

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS REPORT FORM

WELL OWNERSHIP: Al Griffin WELL #: _____
LAND STATUS: STATE _____ FEDERAL _____ FEE _____
WELL LOCATION: Unit Letter _____ Section _____ Township _____ Range _____
QUARTER/QUARTER - FOOTAGE LOCATION: Tatum Area
WELL TYPE: Water well DEPTH _____ feet
WELL USE: Domestic

SAMPLE NUMBER: _____ TAKEN BY: Stanley Watson
DATE: 10/3/87

Specific Conductance: 1075 m/s
Total dissolved solids: 752.5 PPM
Chlorides: 113.6 PPM
Sulfates: _____ PPM
Ortho-phosphates: Very Low _____ Low _____ Med _____ Hi _____
Sulfides: None _____ Low _____ Med _____ Hi _____
OTHER: _____

DATE ANALYZED: 10/4/87

BY: Eddie W. Seay
OIL CONSERVATION DIVISION

REMARKS: 25 ml sample 142 X .8 titration = 113.6 ppm Cl
1075 sc X .7 TDS factor = 752.5 TDS

WATER WELL located Approx. 75 yards SW of
Quality BRIDE WELL. Tatum NM

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS REPORT FORM

WELL OWNERSHIP: Watson WELL #: Quality brine
LAND STATUS: STATE FEDERAL FEE
WELL LOCATION: Unit Letter Section Township Range
QUARTER/QUARTER - FOOTAGE LOCATION: Tatum Area
WELL TYPE: Water well DEPTH feet
WELL USE: Water supply for brine

SAMPLE NUMBER: TAKEN BY: Stanley Watson
DATE: 11/3/87

Specific Conductance: 1100 m/s
Total dissolved solids: 770 PPM
Chlorides: 99.4 PPM
Sulfates: PPM
Ortho-phosphates: Very Low Low Med Hi
Sulfides: None Low Med Hi
OTHER:

DATE ANALYZED: 11/4/87 BY: Eddie W. Seay
OIL CONSERVATION DIVISION

REMARKS: 25 ml sample 142 X .7 titration = 99.4 ppm Cl
1100 X .7 TDS factor = 770 TDS

WATER WELL located approx. 75 yards NE of
Quality Brine Well. Tatum NM

QUALITY BRINE
Tatum, N.M.
Quarterly Report

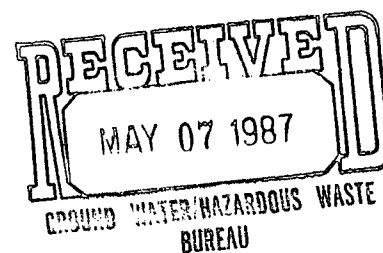
4-28-87

Brine Water Sales

1600 Barrels

Fresh Water Sales

2450 Barrels



7

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS REPORT FORM

WELL OWNERSHIP: Al Griffin WELL #: _____
LAND STATUS: STATE _____ FEDERAL _____ FEE _____
WELL LOCATION: Unit Letter _____ Section _____ Township _____ Range _____
QUARTER/QUARTER - FOOTAGE LOCATION: Tatum Area
WELL TYPE: Water well DEPTH _____ feet
WELL USE: Domestic use

SAMPLE NUMBER: 1 TAKEN BY: Stanley Watson
DATE: 3/16/87

Specific Conductance: 960 m μ
Total dissolved solids: 672 PPM
Chlorides: 56.8 PPM
Sulfates: _____ PPM
Ortho-phosphates: Very Low _____ Low _____ Med _____ Hi _____
Sulfides: None _____ Low _____ Med _____ Hi _____
OTHER: _____

DATE ANALYZED: 3/17/87 BY: Eddie W. Seay
OIL CONSERVATION DIVISION

REMARKS: 25 ml 142 X .4 titration = 56.8 ppm cl
960 sc X .7 = 672 ppm TDS

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS REPORT FORM

WELL OWNERSHIP: Watson WELL #: Quality Brine
LAND STATUS: STATE _____ FEDERAL _____ FEE X
WELL LOCATION: Unit Letter _____ Section _____ Township _____ Range _____
QUARTER/QUARTER - FOOTAGE LOCATION: Tatum Area
WELL TYPE: Water well DEPTH _____ feet
WELL USE: Water supply well for brine station

SAMPLE NUMBER: 1 TAKEN BY: Stanley Watson
DATE: 3/16/87

Specific Conductance: 980 m/h
Total dissolved solids: 686 PPM
Chlorides: 112.6 PPM
Sulfates: _____ PPM
Ortho-phosphates: Very Low _____ Low _____ Med _____ Hi _____
Sulfides: None _____ Low _____ Med _____ Hi _____
OTHER: _____

DATE ANALYZED: 3/17/87 BY: Eddie W. Seay
OIL CONSERVATION DIVISION

REMARKS: 25 ml sample 142 X .8 titration = 112.6
980 sc X .7 factor = 686 ppm TDS

RECEIVED
APR 01 1987
GROUND WATER/HAZARDOUS WASTE
BUREAU

REMARKS: 25 ml sample 142 X .8 titration = 112.6

980 sc X .7 factor = 686 ppm TDS

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS REPORT FORM

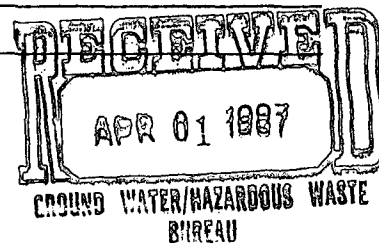
WELL OWNERSHIP: Al Griffin WELL #: _____
LAND STATUS: STATE _____ FEDERAL _____ FEE _____
WELL LOCATION: Unit Letter _____ Section _____ Township _____ Range _____
QUARTER/QUARTER - FOOTAGE LOCATION: Tatum Area
WELL TYPE: Water well DEPTH _____ feet
WELL USE: Domestic use

SAMPLE NUMBER: 1 TAKEN BY: Stanley Watson
DATE: 3/16/87

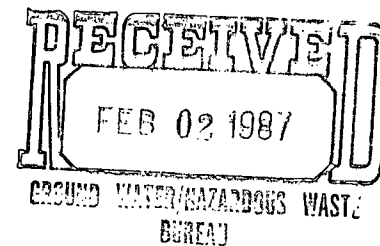
Specific Conductance: 960 m/h
Total dissolved solids: 672 PPM
Chlorides: 56.8 PPM
Sulfates: _____ PPM
Ortho-phosphates: Very Low _____ Low _____ Med _____ Hi _____
Sulfides: None _____ Low _____ Med _____ Hi _____
OTHER: _____

DATE ANALYZED: 3/17/87 BY: Eddie W. Seay
OIL CONSERVATION DIVISION

REMARKS: 25 ml 142 X .4 titration = 56.8 ppm cl
960 sc X .7 = 672 ppm TDS



Keweenaw



QUALITY BRINE

Tatum, N.M.

Quarterly Report

1-28-87

Brine Water Sales

2084 Barrels

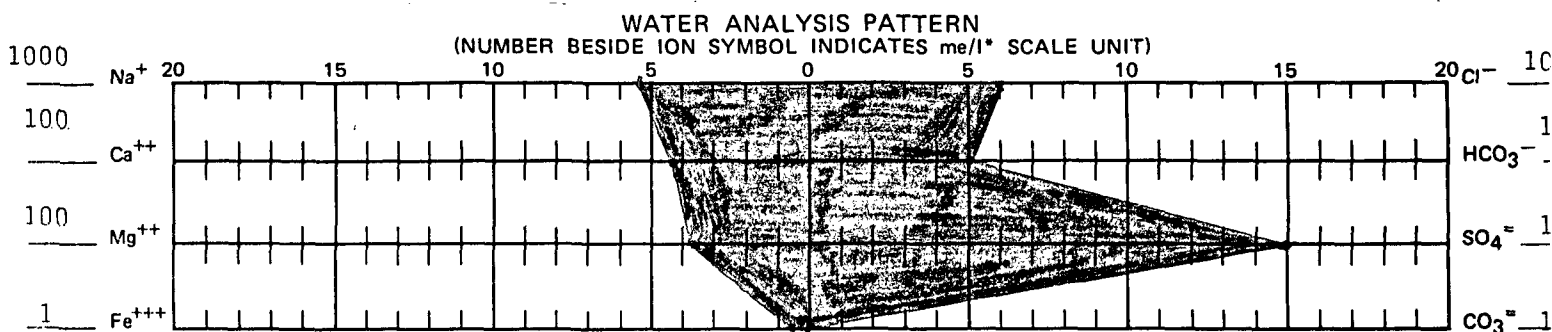
Fresh Water Sales

2280 Barrels



WATER ANALYSIS REPORT

COMPANY Quality Brine				ANALYSIS NUMBER 1756		
COMPANY ADDRESS				DATE 10-6-86		
FIELD		COUNTY OR PARISH LEA		STATE NM		
LEASE OR UNIT		WELL(S) NAME OR NO.		WATER SOURCE (FORMATION) BRINE WATER		
DEPTH, FT.	BHT, °F	SAMPLE SOURCE	TEMP, °F	WATER, BBL/DAY	OIL, BBL/DAY	GAS, MMCF/DAY
DATE SAMPLED 10-3-86		TYPE OF WATER <input checked="" type="checkbox"/> PRODUCED <input type="checkbox"/> SUPPLY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> SALT WATER DISPOSAL				



DISSOLVED SOLIDS

CATIONS	me/l*	mg/l*
Total Hardness	800	
Calcium, Ca ⁺⁺	420	8400
Magnesium, Mg ⁺⁺	380	4636
Iron (Total) Fe ⁺⁺⁺	0.54	10
Barium, Ba ⁺⁺	-----	-----
Sodium, Na ⁺ (calc.)	5439.5	125108

ANIONS	me/l*	mg/l*
Chloride, Cl ⁻	6085	216000
Sulfate, SO ₄ ⁼	150	7200
Carbonate, CO ₃ ⁼	0	0
Bicarbonate, HCO ₃ ⁻	5	305
Hydroxyl, OH ⁻	0	0
Sulfide, S ⁼	0	0

TOTAL SOLIDS (QUANTITATIVE) 361659

REMARKS AND RECOMMENDATIONS:

AT 20°C SEVERE CARBONATE SCALING
AT 20°C CALCIUM SULFATE SCALING IS LIKELY

DISSOLVED GASES

Hydrogen Sulfide, H ₂ S	0 mg/l*
Carbon Dioxide, CO ₂	79.2 mg/l*
Oxygen, O ₂	0.6 mg/l*

PHYSICAL PROPERTIES

pH	6.95
Specific Gravity	1.210
Total Dissolved Solids (calc.)	361649 mg/l*
Stability Index @ 20 °C	+3.97
CaSO ₄ Solubility @ 20 °C	20.4 me/l*
Max. CaSO ₄ Possible (calc.)	150.0 me/l*
Max. CaSO ₄ Possible (calc.)	me/l*
Residual Hydrocarbons	ppm(Vol/V)
Residual Hydrocarbons	ppm(Vol/V)

*NOTE: me/l and mg/l are commc
used interchangeably for epn and p
respectively. Where epn and ppm
used, corrections should be made
specific gravity.

BAKER OIL TREATING REPRESENTATIVE JOE LEWIS	ADDRESS	TELEPHONE	RES:
ANALYZED BY: BOB WALLACE	DATE 10-6-86	OFF:	
DISTRIBUTION			

PERMIAN

Treating Chemicals, Inc.

P. O. BOX 728
LOVINGTON, NM 88260
PHONE (505) 396-5674

WATER ANALYSIS REPORT

Company Quality Brine Date Sampled 1-29-87
Field _____ County Lea
Lease _____ State New Mexico
Well Union LP Gas Company Formation _____
Type of Water Domestic - Sub pump Water, B/D _____
Sampling Point _____ Sampled By Gale Blackwell

DISSOLVED SOLIDS

CATIONS

	mg/l	meq/l
Sodium, Na+(Calc)	<u> </u> ÷ 23	<u> </u>
Calcium, Ca++	<u> </u> ÷ 20	<u> </u>
Magnesium, Mg++	<u> </u> ÷ 12.2	<u> </u>
Barium, Ba++	<u> </u> ÷ 68.7	<u> </u>
Iron, Fe (Total)	<u> </u>	<u> </u>
_____	<u> </u>	<u> </u>
_____	<u> </u>	<u> </u>

ANIONS

Chloride, Cl-	<u>117.0</u> ÷ 35.5	<u> </u>
Sulfate, So ₄ =	<u> </u> ÷ 48	<u> </u>
Carbonate, Co ₃ =	<u> </u> ÷ 30	<u> </u>
Bicarbonate, HCo ₃ -	<u> </u> ÷ 61	<u> </u>
_____	<u> </u>	<u> </u>

OTHER PROPERTIES

pH
Specific Gravity
H₂S
Total Dissolved
Solids
Total Hardness

Remarks and Recommendations _____

Water well located approximately 100 yards SE of Watson Brine well.

PERMIAN

Treating Chemicals, Inc.

P. O. BOX 728
LOVINGTON, NM 88260
PHONE (505) 396-5674

WATER ANALYSIS REPORT

Company Quality Brine Date Sampled 1-29-87
Field _____ County Lea
Lease _____ State New Mexico
Well Watson Formation _____
Type of Water Fresh Water Water, B/D _____
Sampling Point _____ Sampled By Gale Blackwell

DISSOLVED SOLIDS

CATIONS

	mg/l	meq/l
Sodium, Na+(Calc)	<u> </u> ÷ 23	<u> </u>
Calcium, Ca++	<u> </u> ÷ 20	<u> </u>
Magnesium, Mg++	<u> </u> ÷ 12.2	<u> </u>
Barium, Ba++	<u> </u> ÷ 68.7	<u> </u>
Iron, Fe (Total)	<u> </u>	<u> </u>
_____	<u> </u>	<u> </u>
_____	<u> </u>	<u> </u>

ANIONS

Chloride, Cl-	<u>29.0</u> ÷ 35.5	<u> </u>
Sulfate, So ₄ =	<u> </u> ÷ 48	<u> </u>
Carbonate, Co ₃ =	<u> </u> ÷ 30	<u> </u>
Bicarbonate, HCo ₃ -	<u> </u> ÷ 61	<u> </u>
_____	<u> </u>	<u> </u>

OTHER PROPERTIES

pH
Specific Gravity
H₂S
Total Dissolved
Solids
Total Hardness

Remarks and Recommendations _____

Water well located approximately 75 yards NE of brine well.