

Submit 3 Copies To Appropriate District Office
 District I
 1625 N. French Dr., Hobbs, NM 88249
 District II
 1301 W. Grand Ave., Artesia, NM 88210
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505

HOBBS OCD
MAY 07 2014
RECEIVED

State of New Mexico
 Energy, Minerals and Natural Resources
CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

Form C-103
 May 27, 2004

WELL API NO. 30-025-40162
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Red Hills West SWD
8. Well Number 1
9. OGRID Number 14744
10. Pool name or Wildcat SWD; Bell Canyon – Cherry Canyon

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other SWD

2. Name of Operator
Mewbourne Oil Company

3. Address of Operator
PO Box 5270 Hobbs, NM 88240

4. Well Location
 Unit Letter P : 700 feet from the S line and 690 feet from the E line
 Section 16 Township 26S Range 32E NMPM Lea County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3166' GL

Pit or Below-grade Tank Application or Closure

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

- PERFORM REMEDIAL WORK PLUG AND ABANDON
 TEMPORARILY ABANDON CHANGE PLANS
 PULL OR ALTER CASING MULTIPLE COMPL

OTHER: SWD plan

SUBSEQUENT REPORT OF:

- REMEDIAL WORK ALTERING CASING
 COMMENCE DRILLING OPNS. P AND A
 CASING/CEMENT JOB

OTHER:

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Please see attached SWD plan.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit or an (attached) alternative OCD-approved plan .

SIGNATURE Kyle Mitchell TITLE Engineer DATE 05/05/14

Type or print name Kyle Mitchell E-mail address: kmitchell@mewbourne.com Telephone No. 575-393-5905
For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
 Conditions of Approval (if any):

Accepted for Record Only
Accepted for Record Only

MAY 08 2014



New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

John H. Bemis
Cabinet Secretary-Designate

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

HOBBS OCD

MAY 07 2014

RECEIVED

Jami Bailey
Division Director
Oil Conservation Division



Administrative Order SWD-1282
June 22, 2011

**ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION**

Under the provisions of 19.15.26.8B NMAC, Mewbourne Oil Company seeks an administrative order to utilize its proposed Red Hills West SWD Well No. 1 (API 30-025-NA) to be located 700 feet from the South line and 690 feet from the East line, Unit Letter P of Section 16, Township 26 South, Range 32 East, NMPM, Lea County, New Mexico, for produced water disposal purposes.

THE DIVISION DIRECTOR FINDS THAT:

The application has been duly filed under the provisions of 19.15.26.8B NMAC and satisfactory information has been provided that affected parties as defined in said rule have been notified and no objections have been received within the prescribed waiting period. The applicant has presented satisfactory evidence that all requirements prescribed in 19.15.26.8 NMAC have been met and the operator is in compliance with 19.15.5.9 NMAC.

IT IS THEREFORE ORDERED THAT:

The applicant, Mewbourne Oil Company, is hereby authorized to utilize its proposed Red Hills West SWD Well No. 1 (API 30-025-NA) to be located 700 feet from the South line and 690 feet from the East line, Unit Letter P of Section 16, Township 26 South, Range 32 East, NMPM, Lea County, New Mexico, for disposal of oil field produced water (UIC Class II only) into the Bell Canyon and Cherry Canyon members of the Delaware Mountain Group through perforations from approximately 5100 feet to 6300 feet through lined tubing and a packer set within 100 feet of the permitted disposal interval.

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the disposed water enters only the proposed disposal interval and is not permitted to escape to other formations or onto the surface.



After installing tubing, the casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge or an approved leak detection device in order to determine leakage in the casing, tubing, or packer.

The well shall pass an initial mechanical integrity test ("MIT") prior to initially commencing disposal and prior to resuming disposal each time the disposal packer is unseated. All MIT testing procedures and schedules shall follow the requirements in Division Rule 19.15.26.11A. NMAC.

The wellhead injection pressure on the well shall be limited to **no more than 1020 psi**. In addition, the disposal well or system shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface tubing pressure to the maximum allowable pressure for this well.

The Director of the Division may authorize an increase in tubing pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the disposed fluid from the target formation. Such proper showing shall be demonstrated by sufficient evidence including but not limited to an acceptable Step-Rate-Test.

The operator shall notify the supervisor of the Division's district office of the date and time of the installation of disposal equipment and of any MIT test so that the same may be inspected and witnessed. The operator shall provide written notice of the date of commencement of disposal to the Division's district office. The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Division Rules 19.15.26.13 and 19.15.7.24 NMAC.

Without limitation on the duties of the operator as provided in Division Rules 19.15.29 and 19.15.30 NMAC, or otherwise, the operator shall immediately notify the Division's district office of any failure of the tubing, casing or packer in the well, or of any leakage or release of water, oil or gas from around any produced or plugged and abandoned well in the area, and shall take such measures as may be timely and necessary to correct such failure or leakage.

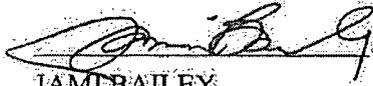
The injection authority granted under this order is not transferable except upon division approval. The division may require the operator to demonstrate mechanical integrity of any injection well that will be transferred prior to approving transfer of authority to inject.

The division may revoke this injection permit after notice and hearing if the operator is in violation of 19.15.5.9 NMAC.

The disposal authority granted herein shall terminate two years after the effective date of this order if the operator has not commenced injection operations into the subject well. One year after the last date of reported disposal into this well, the Division shall consider the well abandoned, and the authority to dispose will terminate *ipso facto*. The Division, upon written request mailed by the operator prior to the termination date, may grant an extension thereof for good cause.

Compliance with this order does not relieve the operator of the obligation to comply with other applicable federal, state or local laws or rules, or to exercise due care for the protection of fresh water, public health and safety and the environment.

Jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh or protectable waters or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the disposal authority granted herein.



JAMI BAILEY
Director

JB/wvjj

cc: Oil Conservation Division – Hobbs
State Land Office – Oil, Gas, and Minerals Division

WATER PRODUCTION & DISPOSAL INFORMATION

Red Hills West 22 CN Fed Com #1/H

In order to process your disposal request, the following information must be completed:

1. Name of formations producing water on the lease. Avalon Shale

2. Amount of water produced from all formations in barrels per day. 200

3. Attach a current water analysis of produced water from all zones showing at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates. (One sample will suffice if water is commingled.)
4. How water is stored on lease. 2- 500 bbl fiberglass tanks
5. How water is moved to the disposal facility. pipelined
6. Identify the Disposal Facility by:
 - A. Facility Operators name. Mewbourne Oil Company
 - B. Name of facility or well name and number. Red Hills West SWD #1
 - C. Type of facility or well (WDW) (WIW) etc. WDW
 - D. Location by $\frac{1}{4}$ $\frac{1}{4}$ SESE Section 16 Township 26S Range 32E
7. Attach a copy of the State issued permit for the Disposal Facility.

Submit to this office, 620 EAST GREENE ST, CARLSBAD NM, 88220, the above required information on a Sundry Notice 3160-5. Submit 1 original and 3 copies, within abatement period. (This form may be used as an attachment to the Sundry Notice.)



Water Analysis

Date: 15-Oct-13

2708 West County Road, Hobbs NM 88240
 Phone (575) 392-5556 Fax (575) 392-7307

Analyzed For

Company	Well Name	County	State
Mewbourne Oil & Gas	Red Hills 22 CN	Lea	New Mexico

Sample Source Swab Sample **Sample #** 1

Formation **Depth**

Specific Gravity	1.100	SG @ 60°F	1.112
pH	7.32	Sulfides	Absent
Temperature (°F)	70	Reducing Agents	

Cations

Sodium (Calc)	in Mg/L	48,579	in PPM	44,183
Calcium	in Mg/L	3,600	in PPM	3,167
Magnesium	in Mg/L	720	in PPM	653
Soluble Iron (FE2)	in Mg/L	0.2	in PPM	0

Anions

Chlorides	in Mg/L	82,000	in PPM	74,110
Sulfates	in Mg/L	350	in PPM	318
Bicarbonates	in Mg/L	1,337	in PPM	1,113
Total Hardness (as CaCO3)	in Mg/L	12,000	in PPM	10,189
Total Dissolved Solids (Calc)	in Mg/L	136,587	in PPM	123,944
Equivalent NaCl Concentration	in Mg/L	123,390	in PPM	111,969

Scaling Tendencies

*Calcium Carbonate Index	4,813,612
Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable	
*Calcium Sulfate (Gyp) Index	1,260,010
Below 500,000 Remote / 500,000 - 10,000,000 Possible / Above 10,000,000 Probable	

*This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.

Remarks rw=.066@70f

Report # 3252

WATER PRODUCTION & DISPOSAL INFORMATION

Red Hills West 22 AP Fed Com #1H

In order to process your disposal request, the following information must be completed:

1. Name of formations producing water on the lease. Asvalon Shale

2. Amount of water produced from all formations in barrels per day. 150

3. Attach a current water analysis of produced water from all zones showing at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates. (One sample will suffice if water is commingled.)
4. How water is stored on lease. 2-500 bbl fiberglass tanks
5. How water is moved to the disposal facility. pipelined
6. Identify the Disposal Facility by:
 - A. Facility Operators name. Mewbourne Oil Company
 - B. Name of facility or well name and number. Red Hills West SWD #1
 - C. Type of facility or well (WDW) (WIW) etc. WDW
 - D. Location by $\frac{1}{4}$ $\frac{1}{4}$ SESE Section 16 Township 26S Range 32E
7. Attach a copy of the State issued permit for the Disposal Facility.

Submit to this office, 620 EAST GREENE ST, CARLSBAD NM, 88220, the above required information on a Sundry Notice 3160-5. Submit 1 original and 3 copies, within abatement period. (This form may be used as an attachment to the Sundry Notice.)



Water Analysis

Date: 16-Oct-13

2708 West County Road, Hobbs NM 88240
 Phone (575) 392-5556 Fax (575) 392-7307

Analyzed For

Company	Well Name	County	State
Mewbourne Oil & Gas	Red Hills 22 AP	Lea	New Mexico

Sample Source Swab Sample **Sample #** 1

Formation **Depth**

Specific Gravity	1.125	SG @ 60 °F	1.117
pH	7.49	Sulfides	Absent
Temperature (°F)	70	Reducing Agents	

Cations

Sodium (Calc)	<i>in Mg/L</i>	56,685	<i>in PPM</i>	50,297
Calcium	<i>in Mg/L</i>	3,600	<i>in PPM</i>	3,194
Magnesium	<i>in Mg/L</i>	480	<i>in PPM</i>	426
Soluble Iron (FE2)	<i>in Mg/L</i>	0.2	<i>in PPM</i>	0

Anions

Chlorides	<i>in Mg/L</i>	94,000	<i>in PPM</i>	83,107
Sulfates	<i>in Mg/L</i>	350	<i>in PPM</i>	311
Bicarbonates	<i>in Mg/L</i>	878	<i>in PPM</i>	779
Total Hardness (as CaCO3)	<i>in Mg/L</i>	11,000	<i>in PPM</i>	9,760
Total Dissolved Solids (Calc)	<i>in Mg/L</i>	155,994	<i>in PPM</i>	138,415
Equivalent NaCl Concentration	<i>in Mg/L</i>	137,957	<i>in PPM</i>	122,411

Scaling Tendencies

***Calcium Carbonate Index** **3,162,240**

Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable

***Calcium Sulfate (Gyp) Index** **1,260,000**

Below 500,000 Remote / 500,000 - 10,000,000 Possible / Above 10,000,000 Probable

**This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.*

Remarks rw=.058@70f

Report # 3253

WATER PRODUCTION & DISPOSAL INFORMATION

Red Hills West 21 DM Fed Com #114

In order to process your disposal request, the following information must be completed:

1. Name of formations producing water on the lease. Avalon Shale

2. Amount of water produced from all formations in barrels per day. 200

3. Attach a current water analysis of produced water from all zones showing at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates. (One sample will suffice if water is commingled.)
4. How water is stored on lease. 2-500 lbi fiberglass tanks
5. How water is moved to the disposal facility. pipe lined
6. Identify the Disposal Facility by:
 - A. Facility Operators name. Newbourne Oil Company
 - B. Name of facility or well name and number. Red Hills West SWD #1
 - C. Type of facility or well (WDW) (WTW) etc. WDW
 - D. Location by ¼ ¼ SESE Section 16 Township 26S Range 32E
7. Attach a copy of the State issued permit for the Disposal Facility.

Submit to this office, 620 EAST GREENE ST, CARLSBAD NM, 88220, the above required information on a Sundry Notice 3160-5. Submit 1 original and 3 copies, within abatement period. (This form may be used as an attachment to the Sundry Notice.)



Water Analysis

Date: 12-Aug-13

2708 West County Road, Hobbs NM 88240
 Phone (505) 392-5556 Fax (505) 392-7307

Analyzed For

Company	Well Name	County	State
Mewbourne	Red Hills 21-DM	Lea	New Mexico

Sample Source	Swab Sample	Sample #	
			1
Formation	Depth		
Specific Gravity	1.125	SG @ 60 °F	1.127
pH	7.34	Sulfides	Absent
Temperature (°F)	70	Reducing Agents	

Cations

Sodium (Calc)	in Mg/L	58,438	in PPM	51,853
Calcium	in Mg/L	2,000	in PPM	1,775
Magnesium	in Mg/L	480	in PPM	426
Soluable Iron (FE2)	in Mg/L	10.0	in PPM	9

Anions

Chlorides	in Mg/L	94,000	in PPM	83,407
Sulfates	in Mg/L	300	in PPM	266
Bicarbonates	in Mg/L	732	in PPM	650
Total Hardness (as CaCO3)	in Mg/L	7,000	in PPM	6,211
Total Dissolved Solids (Calc)	in Mg/L	155,960	in PPM	138,385
Equivalent NaCl Concentration	in Mg/L	138,105	in PPM	122,543

Scaling Tendencies

*Calcium Carbonate Index	1,464,000
<i>Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable</i>	
*Calcium Sulfate (Gyp) Index	600,000
<i>Below 500,000 Remote / 500,000 - 10,000,00 Possible / Above 10,000,000 Probable</i>	

*This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.

Remarks rw=.058@70f

Report # 3223

WATER PRODUCTION & DISPOSAL INFORMATION

Red Hills West 2130 Fed Com #1H

In order to process your disposal request, the following information must be completed:

1. Name of formations producing water on the lease. Avalon Shale

2. Amount of water produced from all formations in barrels per day. 500

3. Attach a current water analysis of produced water from all zones showing at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates. (One sample will suffice if water is commingled.)
4. How water is stored on lease. 2-500 bbl fiberglass tanks
5. How water is moved to the disposal facility. pipelined
6. Identify the Disposal Facility by:
 - A. Facility Operators name. Mowbaine Oil Company
 - B. Name of facility or well name and number. Red Hills West SWD #1
 - C. Type of facility or well (WDW) (WIW) etc. WDW
 - D. Location by $\frac{1}{4}$ $\frac{1}{4}$ SESE Section 16 Township 26S Range 32E
7. Attach a copy of the State issued permit for the Disposal Facility.

Submit to this office, 620 EAST GREENE ST, CARLSBAD NM, 88220, the above required information on a Sundry Notice 3160-5. Submit 1 original and 3 copies, within abatement period. (This form may be used as an attachment to the Sundry Notice.)



Water Analysis

Date: 23-Apr-14

2708 West County Road, Hobbs NM 88240
 Phone (575) 392-5556 Fax (575) 392-7307

Analyzed For

Company	Well Name	County	State
Mewbourne	RH 21 BO	Lea	New Mexico

Sample Source Swab Sample **Sample #** 1

Formation **Depth**

Specific Gravity	1.115	SG @ 60 °F	1.117
pH	6.80	Sulfides	Absent
Temperature (°F)	70	Reducing Agents	

Cations

Sodium (Calc)	in Mg/L	55,241	in PPM	49,455
Calcium	in Mg/L	1,000	in PPM	895
Magnesium	in Mg/L	144	in PPM	129
Soluble Iron (FE2)	in Mg/L	0.4	in PPM	0

Anions

Chlorides	in Mg/L	86,000	in PPM	76,992
Sulfates	in Mg/L	650	in PPM	582
Bicarbonates	in Mg/L	854	in PPM	765
Total Hardness (as CaCO3)	in Mg/L	3,100	in PPM	2,775
Total Dissolved Solids (Calc)	in Mg/L	143,890	in PPM	128,818
Equivalent NaCl Concentration	in Mg/L	128,053	in PPM	114,640

Scaling Tendencies

*Calcium Carbonate Index **854,000**

Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable

*Calcium Sulfate (Gyp) Index **650,000**

Below 500,000 Remote / 500,000 - 10,000,00 Possible / Above 10,000,000 Probable

**This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.*

Remarks RW=.062@70F

Report # 3239

WATER PRODUCTION & DISPOSAL INFORMATION

Red Hills West Unit #004H

In order to process your disposal request, the following information must be completed:

1. Name of formations producing water on the lease. Avalon Shale

2. Amount of water produced from all formations in barrels per day. 150

3. Attach a current water analysis of produced water from all zones showing at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates. (One sample will suffice if water is commingled.)

4. How water is stored on lease. 4-500 bbl fiberglass tanks

5. How water is moved to the disposal facility. pipe lined

6. Identify the Disposal Facility by:
A. Facility Operators name. Mewbourne Oil Company

B. Name of facility or well name and number. Red Hills West SWD #1

C. Type of facility or well (WDW) (WIW) etc. WDW

D. Location by 1/4 1/4 SESE Section 16 Township 26S Range 32E

7. Attach a copy of the State issued permit for the Disposal Facility.

Submit to this office, 620 EAST GREENE ST, CARLSBAD NM, 88220, the above required information on a Sundry Notice 3160-5. Submit 1 original and 3 copies, within abatement period. (This form may be used as an attachment to the Sundry Notice.)



Water Analysis

Date: 12-Aug-13

2708 West County Road, Hobbs NM 88240
 Phone (505) 392-5556 Fax (505) 392-7307

Analyzed For

Company	Well Name	County	State
Mewbourne	Red Hills 004	Lea	New Mexico

Sample Source Swab Sample **Sample #** 1

Formation **Depth**

Specific Gravity	1.125	SG @ 60 °F	1.127
pH	7.45	Sulfides	Absent
Temperature (°F)	70	Reducing Agents	

Cations

Sodium (Calc)	in Mg/L	58,442	in PPM	51,856
Calcium	in Mg/L	2,000	in PPM	1,775
Magnesium	in Mg/L	480	in PPM	426
Soluable Iron (FE2)	in Mg/L	10.0	in PPM	9

Anions

Chlorides	in Mg/L	94,000	in PPM	83,407
Sulfates	in Mg/L	300	in PPM	266
Bicarbonates	in Mg/L	742	in PPM	658
Total Hardness (as CaCO3)	in Mg/L	7,000	in PPM	6,211
Total Dissolved Solids (Calc)	in Mg/L	155,973	in PPM	138,397
Equivalent NaCl Concentration	in Mg/L	138,112	in PPM	122,548

Scaling Tendencies

*Calcium Carbonate Index **1,483,520**
 Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable

*Calcium Sulfate (Gyp) Index **600,000**
 Below 500,000 Remote / 500,000 - 10,000,00 Possible / Above 10,000,000 Probable

*This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.

Remarks rw-.058@70f

Report # 3222

WATER PRODUCTION & DISPOSAL INFORMATION

Red Hills West Unit #005H

In order to process your disposal request, the following information must be completed:

1. Name of formations producing water on the lease. Avalon Shale

2. Amount of water produced from all formations in barrels per day. 150

3. Attach a current water analysis of produced water from all zones showing at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates. (One sample will suffice if water is commingled.)
4. How water is stored on lease. 4 500 bbl fiberglass tanks
5. How water is moved to the disposal facility. pipe lined
6. Identify the Disposal Facility by:
 - A. Facility Operators name. Mewbourne Oil Company
 - B. Name of facility or well name and number. Red Hills West SWD #1
 - C. Type of facility or well (WDW) (WIW) etc. WDW
 - D. Location by $\frac{1}{4}$ $\frac{1}{4}$ SESE Section 16 Township 26S Range 32E
7. Attach a copy of the State issued permit for the Disposal Facility.

Submit to this office, 620 EAST GREENE ST, CARLSBAD NM, 88220, the above required information on a Sundry Notice 3160-5. Submit 1 original and 3 copies, within abatement period. (This form may be used as an attachment to the Sundry Notice.)



Water Analysis

Date: 23-Apr-14

2708 West County Road, Hobbs NM 88240
 Phone (575) 392-5556 Fax (575) 392-7307

Analyzed For

Company	Well Name	County	State
Mewbourne	RH 005	Lea	New Mexico

Sample Source Swab Sample **Sample #** 1

Formation **Depth**

Specific Gravity	1.115	SG @ 60 °F	1.117
pH	6.60	Sulfides	Absent
Temperature (°F)	70	Reducing Agents	

Cations

Sodium (Calc)	in Mg/L	55,814	in PPM	49,968
Calcium	in Mg/L	1,320	in PPM	1,182
Magnesium	in Mg/L	192	in PPM	172
Soluable Iron (FE2)	in Mg/L	0.3	in PPM	0

Anions

Chlorides	in Mg/L	88,000	in PPM	78,782
Sulfates	in Mg/L	650	in PPM	582
Bicarbonates	in Mg/L	137	in PPM	122
Total Hardness (as CaCO3)	in Mg/L	4,100	in PPM	3,671
Total Dissolved Solids (Calc)	in Mg/L	146,113	in PPM	130,808
Equivalent NaCl Concentration	in Mg/L	130,540	in PPM	116,867

Scaling Tendencies

*Calcium Carbonate Index **180,365**

Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable

*Calcium Sulfate (Gyp) Index **858,000**

Below 500,000 Remote / 500,000 - 10,000,00 Possible / Above 10,000,000 Probable

*This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.

Remarks RW=.061@70F

Report # 3236

WATER PRODUCTION & DISPOSAL INFORMATION

Red Hills West Unit #006#

In order to process your disposal request, the following information must be completed:

1. Name of formations producing water on the lease. Avalon Shale

2. Amount of water produced from all formations in barrels per day. 600

3. Attach a current water analysis of produced water from all zones showing at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates. (One sample will suffice if water is commingled.)
4. How water is stored on lease. 2- 500 bbl fiberglass tanks
5. How water is moved to the disposal facility. pipe lined
6. Identify the Disposal Facility by:
 - A. Facility Operators name. Newbourne Oil Company
 - B. Name of facility or well name and number. Red Hills West SWD #1
 - C. Type of facility or well (WDW) (WIW) etc. WDW
 - D. Location by ¼ ¼ SESE Section 16 Township 26S Range 32E
7. Attach a copy of the State issued permit for the Disposal Facility.

Submit to this office, 620 EAST GREENE ST, CARLSBAD NM, 88220, the above required information on a Sundry Notice 3160-5. Submit 1 original and 3 copies, within abatement period. (This form may be used as an attachment to the Sundry Notice.)



Water Analysis

Date: 23-Apr-14

2708 West County Road, Hobbs NM 88240
 Phone (575) 392-5556 Fax (575) 392-7307

Analyzed For

Company	Well Name	County	State
Mewbourne	RH 006	Lea	New Mexico

Sample Source	Swab Sample	Sample #	1
Formation	Depth		

Specific Gravity	1.115	SG @ 60 °F	1.117
pH	6.78	Sulfides	Absent
Temperature (°F)	70	Reducing Agents	

Cations

Sodium (Calc)	in Mg/L	55,250	in PPM	49,463
Calcium	in Mg/L	1,000	in PPM	895
Magnesium	in Mg/L	144	in PPM	129
Soluble Iron (FE2)	in Mg/L	0.4	in PPM	0

Anions

Chlorides	in Mg/L	86,000	in PPM	76,992
Sulfates	in Mg/L	650	in PPM	582
Bicarbonates	in Mg/L	878	in PPM	786
Total Hardness (as CaCO3)	in Mg/L	3,100	in PPM	2,775
Total Dissolved Solids (Calc)	in Mg/L	143,923	in PPM	128,848
Equivalent NaCl Concentration	in Mg/L	128,067	in PPM	114,652

Scaling Tendencies

*Calcium Carbonate Index **878,400**

Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable

*Calcium Sulfate (Gyp) Index **650,000**

Below 500,000 Remote / 500,000 - 10,000,00 Possible / Above 10,000,000 Probable

**This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.*

Remarks RW=.062@70F

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