

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMNM0428854

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
BURTON FLAT DEEP UNIT 4

2. Name of Operator
DEVON ENERGY
Contact: JEANETTE BARRON
E-Mail: jeanette.barron@dvn.com

9. API Well No.
30-015-20835

3a. Address
PO BOX 250
ARTESIA, NM 88211

3b. Phone No. (include area code)
Ph: 575-748-1813

10. Field and Pool, or Exploratory
STRAWN

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

11. County or Parish, and State
EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

1. This well is producing from the Burton Flat Unit #4- Strawn formation
2. water produced from foundation 2 BBL per Month .07 BBL per day
3. There is one 500 BBL tank on location
4. water is trucked by Basic Energy to the a) State G SWD # 964 & b) Myrtle Myra SWD #391 The two SWD units are owned by Basic Energy
5. a) API # 30-015-22955 b) API # 30-015-21515
6. a) Section 24 Township 19 South Range 27 East b) Section 21 Township 19 South Range 27 East

NM OIL CONSERVATION NM OIL CONSERVATION
ARTESIA DISTRICT ARTESIA DISTRICT

JUN 16 2014

JUN 16 2014

Accepted for record
LED NMOC 6/24/14

RECEIVED

RECEIVED

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #244043 verified by the BLM Well Information System
For DEVON ENERGY, sent to the Carlsbad
Committed to AFMSS for processing by LINDA DENNISTON on 06/02/2014 ()

Name (Printed/Typed) JEANETTE BARRON

Title FIELD ADMIN TECH

Signature (Electronic Submission)

Date 05/01/2014

APPROVED

JUN 16 2014

Date

Approved By

Title

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

JAMES A. AMOS
SUPERVISOR-EPS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Burton Flat Deep Unit #4

WATER PRODUCTION & DISPOSAL INFORMATION

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

1. Name(s) of formation(s) producing water on the lease:
Strawn
2. Amount of water produced from all formations in barrels per day:
2 bbls a Month / .07 per day
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:
1- 500 bbl
5. How water is moved to the disposal facility:
trucked
6. Identify the Disposal Facility by:
 - A. Facility Operators Name: Basic
 - B. Facility or well name/number: State G & Myrtle Myra
 - C. Type of Facility or well (WDW)(WIW): SWD #964 & SWD #391
 - D. Location by 1/4 1/4 _____ Section 24 Township 19 S Range 27 E - #964
21 " 21 S " 27 E - #391
7. Attach a copy of the State issued permit for the Disposal Facility.
(Info on the NMOCD Website or on the Artesia L Drive)

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 5 copies, within abatement period. (This form may be used as an attachment to the Sundry Notice.)

lease # NMMNM0428854

gas well

API 30-015-20835



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

ADMINISTRATIVE ORDER SWD-964

APPLICATION OF RAY WESTALL FOR PRODUCED WATER DISPOSAL, EDDY COUNTY, NEW MEXICO

ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 701(B), Ray Westall made application to the New Mexico Oil Conservation Division on December 9, 2004, for permission to utilize for produced water disposal its State "G" Com Well No. 1 (API No. 30-015-22955) located 1980 feet from the North line and 660 feet from the West line of Section 24, Township 19 South, Range 27 East, NMPM, Eddy County, New Mexico.

THE DIVISION DIRECTOR FINDS THAT:

- (1) The application has been duly filed under the provisions of Rule 701(B) of the Division Rules and Regulations;
- (2) Satisfactory information has been provided that all offset operators and surface owners have been duly notified;
- (3) The applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 will be met; and
- (4) No objections have been received within the waiting period prescribed by said rule.

IT IS THEREFORE ORDERED THAT:

The applicant is hereby authorized to utilize its State "G" Com Well No. 1 (API No. 30-015-22955) located 1980 feet from the North line and 660 feet from the West line of Section 24, Township 19 South, Range 27 East, NMPM, Eddy County, New Mexico, in such manner as to permit the injection of produced water for disposal purposes into the Canyon formation through perforations from 8,730 feet to 9,220 and through plastic-lined tubing set with a packer located within 100 feet of the top of the injection interval.

IT IS FURTHER ORDERED THAT:

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

During completion operations, the operator shall swab test the disposal zone and supply the Division with the swab results as well as an analysis of a representative water sample obtained from the disposal interval.

The operator shall estimate the initial reservoir pressure of the injection interval, i.e. from stable fluid levels, and submit this in writing to the Division (referencing SWD-964).

After installing injection tubing, the casing shall be pressure tested from the surface to the packer setting depth to assure casing integrity.

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 wellhead injection pressure on the well shall be limited to **no more than 1,746 psi**. In addition, the injection well or system shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface injection pressure to the maximum allowable pressure for this well.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the injection formation. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Artesia district office of the Division of the date and time of the installation of disposal equipment and of any mechanical integrity test so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Artesia district office of the Division of the failure of the tubing, casing, or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

PROVIDED FURTHER THAT, 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 water or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the injection authority granted herein.

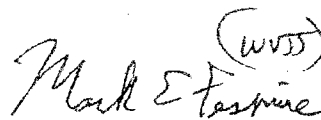
The operator shall provide written notice of the date of commencement of injection to the

Artesia district office of the Division.

The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Rule Nos. 706 and 1120 of the Division Rules and Regulations.

The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well, provided however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

Approved at Santa Fe, New Mexico, on this 27th day of January 2005.



MARK E. FESMIRE, P.E.
Director

MEF/wvjj

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



Water Analysis

Date: 11/23/2004

2401 Sivley, Artesia NM 88210

Phone (505) 746-3140 Fax (505) 746-2293

Analyzed For

Company	Well Name	County	State
Westall	SWSW Sec 13 19-27	Eddy	New Mexico

Sample Source

Sample #

1

Formation

Fresh Water Well

Depth

Specific Gravity	1.000	SG @ 60 °F	1.002
pH	7.63	Sulfides	Not Tested
Temperature (°F)	71	Reducing Agents	Not Tested

Cations

Sodium (Calc)	in Mg/L	5,278	in PPM	5,267
Calcium	in Mg/L	560	in PPM	559
Magnesium	in Mg/L	43	in PPM	43
Soluble Iron (FE2)	in Mg/L	0.0	in PPM	0

Anions

Chlorides	in Mg/L	8,000	in PPM	7,982
Sulfates	in Mg/L	1,600	in PPM	1,596
Bicarbonates	in Mg/L	68	in PPM	68
Total Hardness (as CaCO3)	in Mg/L	1,580	in PPM	1,577
Total Dissolved Solids (Calc)	in Mg/L	15,550	in PPM	15,515
Equivalent NaCl Concentration	in Mg/L	14,683	in PPM	14,650

Scaling Tendencies

*Calcium Carbonate Index 38,259

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

*Calcium Sulfate (Gyp) Index 896,000

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 FAX 677-2361

Report # 1684

ATTACHMENT XII

All available geologic and engineering data have been examined and there is no evidence of open faults or any other hydrologic connection between the disposal zone and any source of drinking water.

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 2086
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

ADMINISTRATIVE ORDER NO. SWD-391

APPLICATION OF RAY WESTALL

ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 701(B), Ray Westall made application to the New Mexico Oil Conservation Division on May 30, 1990, for permission to complete for salt water its Federal Well No. 1, located in Unit C of Section 21, Township 21 South, Range 27 East, NMPM, Eddy County, New Mexico.

THE DIVISION DIRECTOR FINDS THAT:

- (1) The application has been duly filed under the provisions of Rule 701(B) of the Division Rules and Regulations.
- (2) Satisfactory information has been provided that all offset operators and surface owners have been duly notified; and
- (3) The applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 will be met.
- (4) No objections have been received within the waiting period prescribed by said rule.

IT IS THEREFORE ORDERED THAT:

- (1) The applicant herein, Ray Westall is hereby authorized to complete its Federal Well No. 1 located in Unit C of Section 21, Township 21 South, Range 27 East, NMPM, Eddy County, New Mexico, in such a manner as to permit the injection of salt water for disposal purposes into the Delaware formation at approximately 3002 feet to approximately 5050 feet through 2 7/8-inch plastic-lined tubing set in a packer located at approximately 2950 feet.

IT IS FURTHER ORDERED THAT:

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

Prior to commencing injection operations into the well, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing or packer.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than 600 psi.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the Delaware formation. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Artesia district office of the Division of the date and time of the installation of disposal equipment and of the mechanical integrity test so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Artesia district office of the Division of the failure of the tubing, casing or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

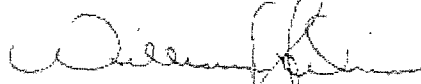
PROVIDED FURTHER THAT, jurisdiction of this cause is hereby retained by the Division for such further order or orders as may be deemed necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of the operator to conduct operations in a manner which will ensure the protection of fresh water or in a manner inconsistent with the requirements set forth in this order, the Division may, after notice and hearing, terminate the injection authority granted herein.

The operator shall submit monthly reports of the disposal operations in accordance with Rule 706 and 1120 of the Division Rules and Regulations.

Administrative Order No. SWD-391
Ray Westall
July 24, 1990
Page 3

Approved at Santa Fe, New Mexico, on this 24th day of July, 1990.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY
Director

SEAL

LOCATION

YOUR EXT. NO.

THE WESTERN COMPANY

WATER ANALYSIS

ANALYSIS NO.

GENERAL INFORMATION

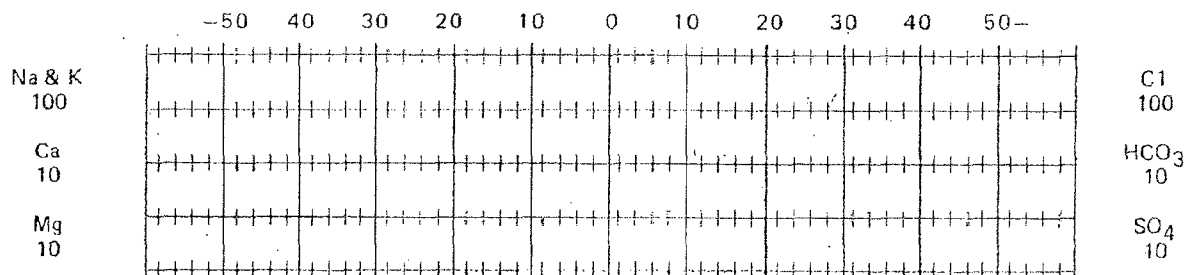
OPERATOR	Ray Westall	DATE SAMPLED	
WELL	Myrtle Myra #3	DATE RECEIVED	2-26-90
FIELD	LA HUERTA	SUBMITTED BY	
FORMATION	DELAWARE	WORKED BY	Brewer
COUNTY	Eddy	SAMPLE DESCRIPTION:	
STATE	N M		
DEPTH	3000 - 5000'		

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY	1.149	AT	74	°F	TOTAL DISSOLVED SOLIDS	PPM
pH	6.0				RESISTIVITY	0.042 @ 74° PPM
IRON	Paint Trace				SULFATE	383 PPM
HYDROGEN SULFIDE					BICARBONATE	403 PPM
HARDNESS					CHLORIDE	128,807 PPM
CALCIUM	5,988				SODIUM CHLORIDE	PPM
MAGNESIUM	14,931			PPM	SODIUM	PPM
SODIUM & POTASSIUM	48,873			PPM	POTASSIUM	PPM
PHOSPHATE						

REMARKS:

for Stiff type plot (in meq./l.)



X. DATA ON INJECTION WELL

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972

Disposal of Produced Water From Federal Wells
Conditions of Approval

Approval of the produced water disposal methodology is subject to the following conditions of approval:

1. This agency shall be notified of any change in your method or location of disposal.
2. Compliance with all provisions of Onshore Order No. 7.
3. This agency shall be notified of any spill or discharge as required by NTL-3A.
4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
5. Any on-lease open top storage tanks shall be covered with a protective cover to prevent entry by birds and other wildlife.
6. This approval should not constitute the granting of any right-of-way or construction rights not granted by the lease instrument.
7. If water is transported via a pipeline that extends beyond the lease boundary, then you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.

6/2/14