

OCD-HOBBS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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.*

HOBBS OCD  
DEC 03 2014  
RECEIVED

5. Lease Serial No. NMLC058698B
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No.
8. Well Name and No. CASWELL 23 FEDERAL 1H ✓
9. API Well No. 30-025-40708-00-S1 ✓
10. Field and Pool, or Exploratory MALJAMAR
11. County or Parish, and State LEA COUNTY, NM

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator DEVON ENERGY PRODUCTION CO	
Contact: SHAMMY INGRAM Email: Shammy.Ingram@dvn.com	
3a. Address 333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 73102	3b. Phone No. (include area code) Ph: 575-748-0174
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 23 T17S R32E NENE 335FNL 260FEL	

**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 recompletable 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 recompletable 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.)

Form Number PAH-027-14

1. Name(s) of formation(s) producing water on lease:  
Maljamar West/Yeso
2. Amount of water produced from all formation(s) in barrels per day:  
900 barrels per day
3. How water is stored on lease:  
500 barrel water tank on lease

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #249491 verified by the BLM Well Information System For DEVON ENERGY PRODUCTION CO LP, sent to the Hobbs Committed to AFMSS for processing by CATHY QUEEN on 06/12/2014 (14CQ0098SE)</b>	
Name (Printed/Typed) SHAMMY INGRAM	Title FIELD ADMIN SUPPORT
Signature (Electronic Submission)	Date 06/12/2014
<b>THIS SPACE FOR FEDERAL OR STATE OFFICE USE</b>	
Approved By _____	Title _____ Date NOV 25 2014
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.

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

**Accepted for Record Only**

DEC 04 2014

*Handwritten initials*

**Additional data for EC transaction #249491 that would not fit on the form**

**32. Additional remarks, continued**

4. How water is moved to the disposal facility:  
Trucked

5. Identify the disposal facility by:

A1. Facility Operators Name: Gandy  
A2. Facility Operators Name: Devon

B1. Facility or well name/number: Sprinkle Federal #3 SWD  
B2. Facility or well name/number: State BH #1

C1. Type of facility or well: WDW  
C2. Type of facility or well: WIW

D1. Location by 1/4 1/4: SE/4 of NE/4, Section 9, Township 19S, Range 35E  
D2. Location by 1/4 1/4: SE/4 of SE/4, Section 32, Township 15S, Range 32E

SWD - 426

R - 3507A

## WATER PRODUCTION & DISPOSAL INFORMATION

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

### Caswell 23 Fed 1H

1. Name(s) of formation(s) producing water on the lease:  
Maljamar West / Yeso
2. Amount of water produced from all formations in barrels per day:  
900 barrels 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:  
500 barrel water tank on lease
5. How water is moved to the disposal facility:  
Trucked
6. Identify the Disposal Facility by:
  - A. Facility Operators Name: Gandy & Devon
  - B. Facility or well name/number: Sprinkle Federal #3 SWD & State BH #1 SWD
  - C. Type of Facility or well (WDW)(WIW): WDW & WIW
  - D. Location by  $\frac{1}{4}$   $\frac{1}{4}$  SE/4 of NE/4 Section 9 Township 19S Range 35E & SE/4 of SE/4 Section 32 Township 15S Range 32E
7. Attach a copy of the State issued permit for the Disposal Facility.  
**(Info on the NMOCD Website or on the Artesia LDrive)**

Submit to this office, 414 West Taylor, Hobbs NM, 88240, 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.)

North Permian Basin Region  
P.O. Box 740  
Sundown, TX 79372-0740  
(806) 229-8121  
Lab Team Leader - Sheila Hernandez  
(432) 495-7240

## Water Analysis Report by Baker Petrolite

Company:	DEVON ENERGY CORPORATION	Sales RDT:	33521.1
Region:	PERMIAN BASIN	Account Manager:	GENE ROGERS (575) 910-1022
Area:	ARTESIA, NM	Sample #:	633582
Lease/Platform:	CASWELL LEASE	Analysis ID #:	134797
Entity (or well #):	1	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 633582 @ 75 °F					
		Anions		Cations			
		mg/l	meq/l	mg/l	meq/l		
Sampling Date:	07/12/13	Chloride:	130900.0	3692.21	Sodium:	66424.0	2889.28
Analysis Date:	07/29/13	Bicarbonate:	219.6	3.6	Magnesium:	1450.0	119.28
Analyst:	SANDRA GOMEZ	Carbonate:	0.0	0.	Calcium:	7419.0	370.21
TDS (mg/l or g/m3):	209107.8	Sulfate:	1572.0	32.73	Strontium:	182.0	4.15
Density (g/cm3, tonne/m3):	1.144	Phosphate:			Barium:	0.1	0.
Anion/Cation Ratio:	0.9137804	Borate:			Iron:	7.0	0.25
		Silicate:			Potassium:	934.0	23.89
Carbon Dioxide:	250 PPM	Hydrogen Sulfide:		1.7 PPM	Aluminum:		
Oxygen:		pH at time of sampling:		6.39	Chromium:		
Comments:		pH at time of analysis:			Copper:		
		pH used in Calculation:		6.39	Lead:		
					Manganese:	0.100	0.
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO <sub>3</sub>		Gypsum CaSO <sub>4</sub> ·2H <sub>2</sub> O		Anhydrite CaSO <sub>4</sub>		Celestite SrSO <sub>4</sub>		Barite BaSO <sub>4</sub>		CO <sub>2</sub> Press
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
°F	psi											psi
80	0	0.37	10.88	-0.01	0.00	0.02	32.94	0.02	4.58	-0.13	0.00	0.61
100	0	0.45	13.46	-0.09	0.00	0.01	14.89	-0.01	0.00	-0.33	0.00	0.75
120	0	0.53	16.04	-0.15	0.00	0.02	33.23	-0.02	0.00	-0.51	0.00	0.89
140	0	0.60	18.62	-0.21	0.00	0.06	80.78	-0.03	0.00	-0.67	0.00	1.03

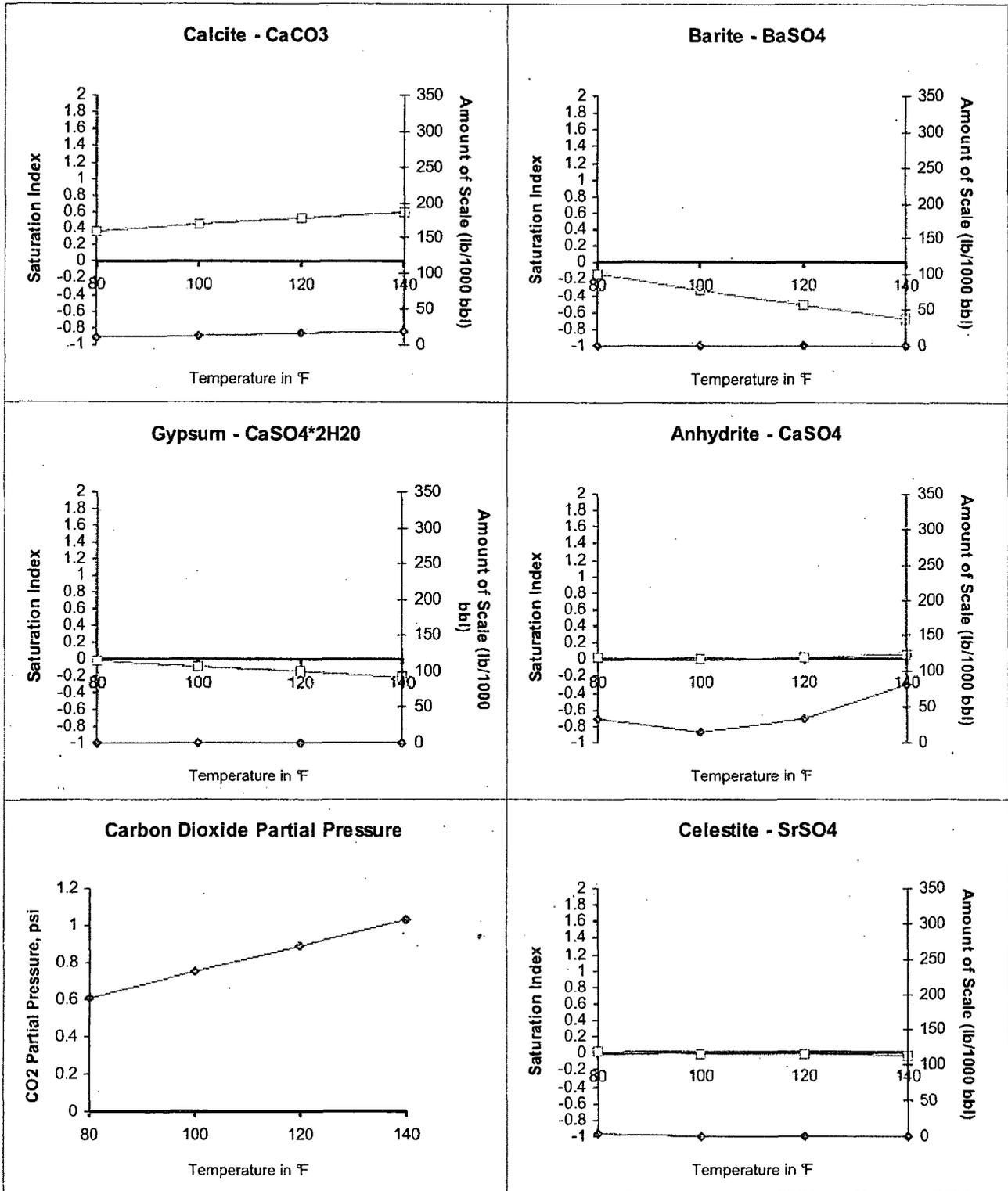
Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO<sub>2</sub> pressure is actually the calculated CO<sub>2</sub> fugacity. It is usually nearly the same as the CO<sub>2</sub> partial pressure.

# Scale Predictions from Baker Petrolite

Analysis of Sample 633582 @ 75 °F for DEVON ENERGY CORPORATION, 07/29/13



## **WATER PRODUCTION & DISPOSAL INFORMATION**

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

### **Caswell 23 Fed 3H**

1. Name(s) of formation(s) producing water on the lease:  
Maljamar West / Yeso
2. Amount of water produced from all formations in barrels per day:  
400 barrels 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:  
500 barrel water tank on lease
5. How water is moved to the disposal facility:  
Trucked
6. Identify the Disposal Facility by:
  - A. Facility Operators Name: Gandy & Devon
  - B. Facility or well name/number: Sprinkle Federal #3 SWD & State BH #1 SWD
  - C. Type of Facility or well (WDW)(WIW): WDW & WIW
  - D. Location by  $\frac{1}{4}$   $\frac{1}{4}$  SE/4 of NE/4 Section 9 Township 19S Range 35E & SE/4 of SE/4 Section 32 Township 15S Range 32E
7. Attach a copy of the State issued permit for the Disposal Facility.  
**(Info on the NMOCD Website or on the Artesia LDrive)**

**Submit to this office, 414 West Taylor, Hobbs NM, 88240, 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.)**

North Permian Basin Region  
P.O. Box 740  
Sundown, TX 79372-0740  
(806) 229-8121  
Lab Team Leader - Sheila Hernandez  
(432) 495-7240

## Water Analysis Report by Baker Petrolite

Company:	DEVON ENERGY CORPORATION	Sales RDT:	33521.1
Region:	PERMIAN BASIN	Account Manager:	GENE ROGERS (575) 910-1022
Area:	ARTESIA, NM	Sample #:	633581
Lease/Platform:	CASWELL LEASE	Analysis ID #:	134798
Entity (or well #):	3-3	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

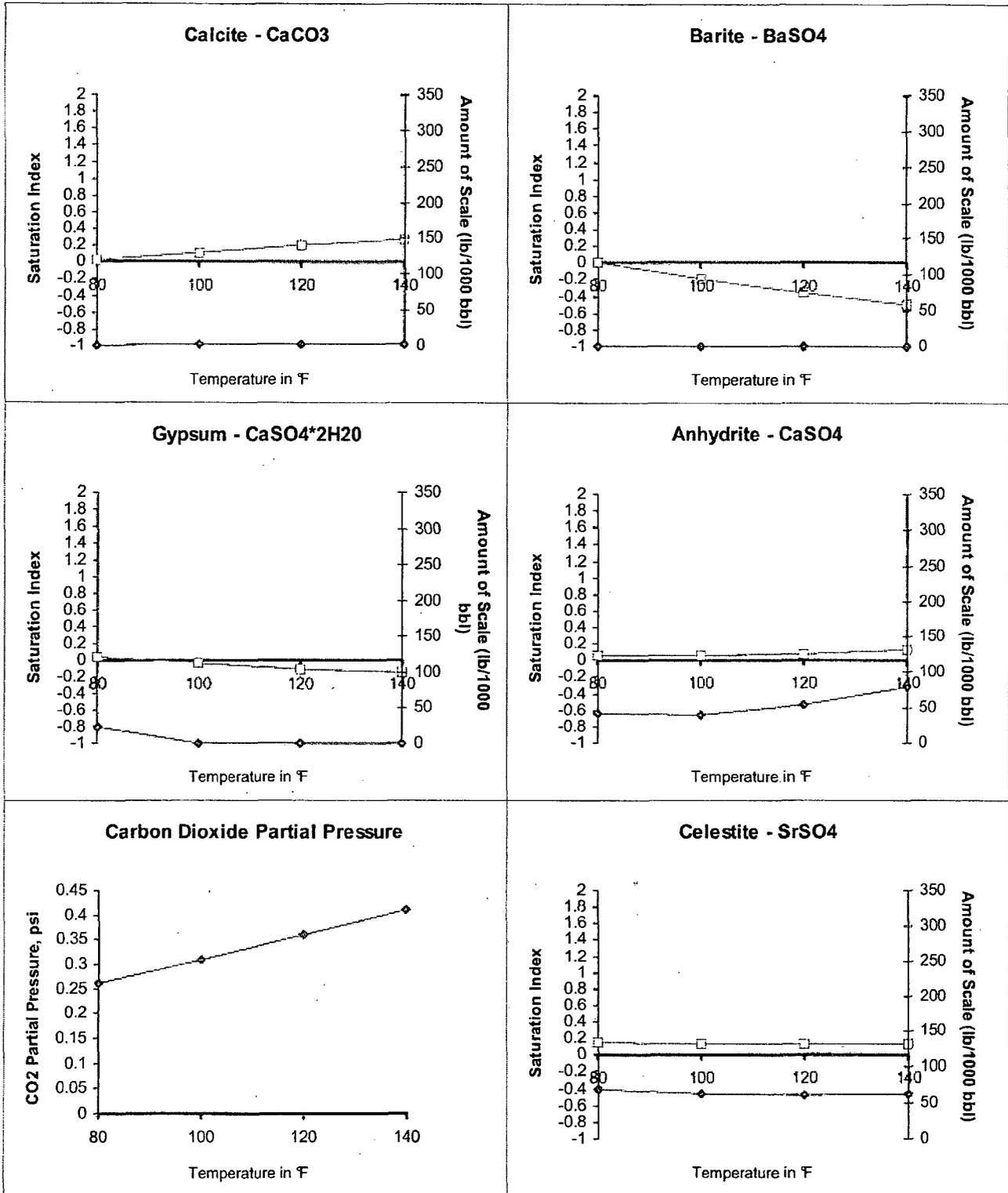
Summary		Analysis of Sample 633581 @ 75 °F					
		Anions		Cations			
		mg/l	meq/l	mg/l	meq/l		
Sampling Date:	07/12/13	Chloride:	161469.0	4554.45	Sodium:	53646.0	2333.47
Analysis Date:	07/29/13	Bicarbonate:	73.2	1.2	Magnesium:	5164.0	424.81
Analyst:	SANDRA GOMEZ	Carbonate:	0.0	0.0	Calcium:	21371.0	1066.42
TDS (mg/l or g/m3):	245166.9	Sulfate:	744.0	15.49	Strontium:	710.0	16.21
Density (g/cm3, tonne/m3):	1.183	Phosphate:			Barium:	0.4	0.01
Anion/Cation Ratio:	0.8514222	Borate:			Iron:	18.0	0.65
		Silicate:			Potassium:	1971.0	50.41
Carbon Dioxide:	470 PPM	Hydrogen Sulfide:		0 PPM	Aluminum:		
Oxygen:		pH at time of sampling:		6.18	Chromium:		
Comments:		pH at time of analysis:			Copper:		
		pH used in Calculation:		6.18	Lead:		
					Manganese:	0.300	0.01
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp °F	Gauge Press. psi	Calcite CaCO <sub>3</sub>		Gypsum CaSO <sub>4</sub> ·2H <sub>2</sub> O		Anhydrite CaSO <sub>4</sub>		Celestite SrSO <sub>4</sub>		Barite BaSO <sub>4</sub>		CO <sub>2</sub> Press psi
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0	0.03	0.28	0.03	23.90	0.06	42.51	0.15	69.74	0.00	0.00	0.26
100	0	0.12	1.11	-0.04	0.00	0.06	40.01	0.13	61.96	-0.19	0.00	0.31
120	0	0.20	1.95	-0.10	0.00	0.08	53.63	0.13	60.30	-0.36	0.00	0.36
140	0	0.28	3.06	-0.15	0.00	0.13	79.19	0.14	63.35	-0.50	0.00	0.41

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.  
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.  
Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

# Scale Predictions from Baker Petrolite

Analysis of Sample 633581 @ 75 °F for DEVON ENERGY CORPORATION, 07/29/13



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.
8. Disposal at any other site will require prior approval.
9. Subject to like approval by NMOCD.

7/10/14