

State of Colorado  
**Oil and Gas Conservation Commission**



**RECEIVED**  
FOR OGCC USE ONLY  
JUN 14 2012  
**COGCC**

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

**SOURCE OF PRODUCED WATER FOR DISPOSAL**

This form must be completed for any new disposal site and for any change in sources of produced water for an existing disposal site.

Complete the  
Attachment Checklist

OGCC Operator Number: <u>10275A</u>	Contact Name and Telephone: <u>Loni Davis</u>
Name of Operator: <u>Augustus Energy Partners, LLC</u>	No: <u>970-332-3585</u>
Address: <u>P. O. Box 250</u>	Fax: <u>970-332-3587</u>
City: <u>Wray</u> State: <u>CO</u> Zip: <u>80758</u>	

Chemical Analysis of fluid	Oper OGCC	

OGCC Disposal Facility Number: 159127

Operator's Disposal Facility Name: Salvador Water Disposal Well Operator's Disposal Facility Number: 14-28

Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSW/4, Sec 28 T5N-R46W, 6th PM

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ County: Yuma

If more space is required,  
attach additional sheet.

**Add Source:** OGCC Lease No: \_\_\_\_\_ API No: 05-125-08145 Well Name & No: Crossland 09-02

Operator Name: Augustus Energy Partners, LLC Operator No: 10275

**Delete Source:** Location: QtrQtr: SENE Section: 2 Township: 4N Range: 46W Producing Formation: NBRR

Analysis Attached?  Yes  No Transported to disposal site via:  Pipeline  Truck TDS: 17561.6

**Add Source:** OGCC Lease No: \_\_\_\_\_ API No: 05-125-09793 Well Name & No: Crossland 32-02 4N46W

Operator Name: Augustus Energy Partners, LLC Operator No: 10275

**Delete Source:** Location: QtrQtr: SWNE Section: 2 Township: 4N Range: 46W Producing Formation: NBRR

Analysis Attached?  Yes  No Transported to disposal site via:  Pipeline  Truck TDS: 17597.4

**Add Source:** OGCC Lease No: \_\_\_\_\_ API No: \_\_\_\_\_ Well Name & No: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Operator No: \_\_\_\_\_

**Delete Source:** Location: QtrQtr: \_\_\_\_\_ Section: \_\_\_\_\_ Township: \_\_\_\_\_ Range: \_\_\_\_\_ Producing Formation: \_\_\_\_\_

Analysis Attached?  Yes  No Transported to disposal site via:  Pipeline  Truck TDS: \_\_\_\_\_

**Add Source:** OGCC Lease No: \_\_\_\_\_ API No: \_\_\_\_\_ Well Name & No: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Operator No: \_\_\_\_\_

**Delete Source:** Location: QtrQtr: \_\_\_\_\_ Section: \_\_\_\_\_ Township: \_\_\_\_\_ Range: \_\_\_\_\_ Producing Formation: \_\_\_\_\_

Analysis Attached?  Yes  No Transported to disposal site via:  Pipeline  Truck TDS: \_\_\_\_\_

**Add Source:** OGCC Lease No: \_\_\_\_\_ API No: \_\_\_\_\_ Well Name & No: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Operator No: \_\_\_\_\_

**Delete Source:** Location: QtrQtr: \_\_\_\_\_ Section: \_\_\_\_\_ Township: \_\_\_\_\_ Range: \_\_\_\_\_ Producing Formation: \_\_\_\_\_

Analysis Attached?  Yes  No Transported to disposal site via:  Pipeline  Truck TDS: \_\_\_\_\_

**Add Source:** OGCC Lease No: \_\_\_\_\_ API No: \_\_\_\_\_ Well Name & No: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Operator No: \_\_\_\_\_

**Delete Source:** Location: QtrQtr: \_\_\_\_\_ Section: \_\_\_\_\_ Township: \_\_\_\_\_ Range: \_\_\_\_\_ Producing Formation: \_\_\_\_\_

Analysis Attached?  Yes  No Transported to disposal site via:  Pipeline  Truck TDS: \_\_\_\_\_

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

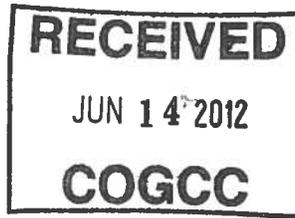
Print Name: Loni J. Davis Signed: Loni J. Davis

Title: Operations Accounting and Regulatory Specialist Date: 06/13/12

OGCC Approved: ACE for Steve Lindblom Title: EPS II Eastern CO Date: 06/19/2012

CONDITIONS OF APPROVAL, IF ANY:

Saw



Rocky Mountain Region  
 1675 Broadway, Suite 1500  
 Denver, CO 80202  
 (303) 573-2772  
 Lab Team Leader - Shella Hernandez  
 (432) 495-7240

## Water Analysis Report by Baker Petrolite

Company:	AUGUSTUS ENERGY	Sales RDT:	44640
Region:	ROCKY MOUNTAINS	Account Manager:	CURT LAPP (970) 630-9347
Area:	WRAY, CO	Sample #:	603024
Lease/Platform:	CROSSLAND LEASE	Analysis ID #:	121004
Entity (or well #):	9-2	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	BLEEDER		

Summary		Analysis of Sample 603024 @ 75 °F					
Sampling Date:	05/17/12	<b>Anions</b>	mg/l	meq/l	<b>Cations</b>	mg/l	meq/l
Analysis Date:	06/04/12	Chloride:	9651.0	272.22	Sodium:	6443.6	280.28
Analyst:	STACEY SMITH	Bicarbonate:	1164.0	19.08	Magnesium:	37.0	3.04
TDS (mg/l or g/m3):	17561.6	Carbonate:	0.0	0.0	Calcium:	92.0	4.59
Density (g/cm3, tonne/m3):	1.013	Sulfate:	24.0	0.5	Strontium:	15.0	0.34
Anion/Cation Ratio:	1.0000000	Phosphate:			Barium:	23.0	0.33
Carbon Dioxide:		Borate:			Iron:	31.0	1.12
Oxygen:		Silicate:			Potassium:	80.0	2.05
Comments:		Hydrogen Sulfide:			Aluminum:		
		pH at time of sampling:			Chromium:		
		pH at time of analysis:		7.71	Copper:		
		pH used in Calculation:		7.71	Lead:		
					Manganese:	1.000	0.04
					Nickel:		

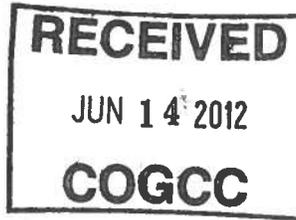
Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO <sub>3</sub>		Gypsum CaSO <sub>4</sub> *2H <sub>2</sub> O		Anhydrite CaSO <sub>4</sub>		Celestite SrSO <sub>4</sub>		Barite BaSO <sub>4</sub>		CO <sub>2</sub> Press
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
°F	psi											psi
80	0	0.67	32.38	-2.95	0.00	-3.01	0.00	-1.95	0.00	1.34	12.06	0.25
100	0	0.72	37.54	-2.97	0.00	-2.97	0.00	-1.94	0.00	1.18	11.37	0.38
120	0	0.77	43.05	-2.99	0.00	-2.90	0.00	-1.92	0.00	1.05	11.02	0.56
140	0	0.83	48.56	-2.99	0.00	-2.82	0.00	-1.90	0.00	0.94	10.33	0.8

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.

Salv



Rocky Mountain Region  
 1675 Broadway, Suite 1500  
 Denver, CO 80202  
 (303) 573-2772  
 Lab Team Leader - Sheila Hernandez  
 (432) 495-7240

## Water Analysis Report by Baker Petrolite

Company:	AUGUSTUS ENERGY	Sales RDT:	44640
Region:	ROCKY MOUNTAINS	Account Manager:	CURT LAPP (970) 630-9347
Area:	WRAY, CO	Sample #:	603023
Lease/Platform:	CROSSLAND LEASE	Analysis ID #:	121005
Entity (or well #):	32-2	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	BLEEDER		

Summary		Analysis of Sample 603023 @ 75 °F					
Sampling Date:	05/17/12	<b>Anions</b>	mg/l	meq/l	<b>Cations</b>	mg/l	meq/l
Analysis Date:	06/04/12	Chloride:	9738.0	274.67	Sodium:	6499.1	282.7
Analyst:	STACEY SMITH	Bicarbonate:	1123.0	18.4	Magnesium:	38.0	3.13
TDS (mg/l or g/m3):	17597.4	Carbonate:	0.0	0.	Calcium:	95.0	4.74
Density (g/cm3, tonne/m3):	1.013	Sulfate:	3.0	0.06	Strontium:	14.0	0.32
Anion/Cation Ratio:	1.0000000	Phosphate:			Barium:	21.0	0.31
Carbon Dioxide:		Borate:			Iron:	24.0	0.87
Oxygen:		Silicate:			Potassium:	42.0	1.07
Comments:		Hydrogen Sulfide:			Aluminum:		
		pH at time of sampling:			Chromium:		
		pH at time of analysis:		7.69	Copper:		
		pH used in Calculation:		7.69	Lead:		
					Manganese:	0.300	0.01
					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	0.65	31.34	-3.84	0.00	-3.90	0.00	-2.88	0.00	0.40	1.38	0.25
100	0	0.70	36.85	-3.86	0.00	-3.86	0.00	-2.87	0.00	0.24	1.03	0.38
120	0	0.76	42.71	-3.88	0.00	-3.79	0.00	-2.86	0.00	0.11	0.34	0.56
140	0	0.82	48.56	-3.88	0.00	-3.70	0.00	-2.83	0.00	0.00	0.00	0.79

- 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.

