

**Jones, William V., EMNRD**


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**From:** Jones, William V., EMNRD  
**Sent:** Monday, August 06, 2007 11:57 AM  
**To:** 'Lane, Myke (E&P)'  
**Cc:** Ezeanyim, Richard, EMNRD; Chavez, Carl J, EMNRD; Perrin, Charlie, EMNRD; Lepich, Mark (E&P); Katirgis, Stergie (E&P)  
**Subject:** RE: Status on Request to Recieved WFS produced water

Hello Myke:

As far as the engineering bureau, I think this email acknowledging your submittal should suffice.

Say hello to Sterg....

William V. Jones PE  
 New Mexico Oil Conservation Division  
 1220 South St. Francis  
 Santa Fe, NM 87505  
 505-476-3448

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**From:** Lane, Myke (E&P) [mailto:Myke.Lane@Williams.Com]  
**Sent:** Monday, August 06, 2007 11:30 AM  
**To:** Jones, William V., EMNRD  
**Cc:** Ezeanyim, Richard, EMNRD; Chavez, Carl J, EMNRD; Perrin, Charlie, EMNRD; Lepich, Mark (E&P); Katirgis, Stergie (E&P)  
**Subject:** RE: Status on Request to Recieved WFS produced water

Attached is your 6/1/07 email to me requesting that I get with Charlie Perrin. The reformatted packet I sent in July was to meet the requirements outlined by Charlie for this request. I do not believe there are any issues and our request should be acceptable for the following reasons outlined in the request:

- The Williams Field Service water is RCRA exempt produced water
- Analytical indicates the water is not significantly different from the water currently produced and disposed of in the wells (if anything it is fresher)
- Both permits allow for the disposal of "produced water," and I did not find any other limits or restrictions specified in the permits related to the source of the water.
- Williams will continue to follow all of the NMOCD and permit conditions/requirements including recordkeeping and well integrity testing.

Charlie was provided a copy of the packet sent in July. Do you want me to contact Charlie, and will NMOCD provide some type of written approval?

*Myke Lane*  
*WPX - EH&S Specialist*  
*505/634-4219 (off) 505/330-3198 (mob)*

*"Every new beginning starts with some other beginning's end!" ---Closing Time by Semisonic*

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**From:** Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

8/6/2007

**Sent:** Monday, August 06, 2007 10:44 AM  
**To:** Lane, Myke (E&P)  
**Cc:** Ezeanyim, Richard, EMNRD; Chavez, Carl J, EMNRD; Perrin, Charlie, EMNRD  
**Subject:** RE: Status on Request to Recieved WFS produced water

Myke:  
Forgot what we told you earlier - so if you would remind me it would help.

Without knowing what else we may have said, and without again checking with Carl Chavez of the environmental bureau (making sure this was all RCRA Exempt waters), all I need is the packet you sent with the notice of new waters and the water analysis of those waters. I will get it scanned into the permit file for this well.

All is a "GO" from this end. If Charlie or Carl wants something else, I'm sure they will let you know.

Thank You,

William V. Jones PE  
New Mexico Oil Conservation Division  
1220 South St. Francis  
Santa Fe, NM 87505  
505-476-3448

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**From:** Lane, Myke (E&P) [mailto:Myke.Lane@Williams.Com]  
**Sent:** Monday, August 06, 2007 10:11 AM  
**To:** Jones, William V., EMNRD  
**Subject:** Status on Request to Recieved WFS produced water

Will:

Any word on the request for Williams Production to receive Williams Field Service (Midstream) produced water. I reformatted our request to meet the submittal suggested by Charlie Perrin.

Please let me know if there is anything further we need to do to get this going?

Thanks for your time and consideration.

**MICHAEL K. (MYKE) LANE, PE**  
**EH&S SPECIALIST**  
**WILLIAMS EXPLORATION & PRODUCTION, LLC**  
**PO Box 640**  
**721 SOUTH MAIN**  
**AZTEC, NM 87410**  
505/634-4219 (OFF); -4205(FAX); 505-330-3198 (MOBILE)

*"The problems we face cannot be resolved at the same level of thinking as that which gave rise to them"*

*-- shared with me by Brent Hale*

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This inbound email has been scanned by the MessageLabs Email Security System.

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Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may

8/6/2007



Exploration & Production  
 PO Box 640  
 Aztec, NM 84710  
 505/634-4219  
 505/634-4205 Fax

July 23, 2007

Mr. William Jones  
 New Mexico Oil Conservation Division  
 Engineering and Geological Services Bureau  
 1220 South St. Francis Drive  
 Santa Fe, NM 87505

Re: Request to Expand Use and Allow Acceptance of Produced Water for Injection

Dear Mr. Jones:

Williams Four Corners, LLC (WFS) would like to use the following injections wells operated by Williams Production Company, LLC (WPX) for the disposal of recovered produced water from some of their facilities located in Rio Arriba Co., New Mexico.

Per discussions with your office and the Aztec District Office, WPX request permission from NMOCD to expand use of the following Injection wells which we operate under the reference permits.

**Verification of Permit Status:**

**API Number**                      **ULSTR**                              **Footages**  
 3003923035                      K-16-31N-5W                      1650 FSL & 1820 FWL

**Well Name & Number:** ROSA UNIT No. 094  
**Operator:** WILLIAMS PRODUCTION COMPANY, LLC  
**Permit:** Case 9401 R-8685

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**API Number**                      **ULSTR**                              **Footages**  
 3003927055                      I-23-31N-6W                      2420 FSL & 1210 FEL

**Well Name & Number:** ROSA UNIT SWD No. 001  
**Operator:** WILLIAMS PRODUCTION COMPANY, LLC  
**Permit:** SWD-916

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**Allowance within Permit for Expansion:**

The produced water will be coming from the following compressor stations/CDP operated by WFS and located in Rio Arriba Co, NM.

Facility	GW Discharge Permit	STR
Eul Canyon		S24 T32N R6W
Bancos Canyon		S32 T32N R5W
Quintana Mesa	GW 309	S32 T32N R5W
Laguna Seca	GW 307	S19 T31N R5W
Martinez Draw	GW 308	S17 T31N R5W
31-6 CDP	GW 118	S1 T31N R6W
30-5 CDP	GW 108	S18 T30N R5W

July 23, 2007

Produced water samples were collected from each of the listed sites earlier this spring and copies of the analytical are attached. All produced water to be received from WFS is according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, RCRA Exempt (Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste).

Injection of this produced water is consistent with each permit. Both wells are permitted as Class II UIC injection wells, permitted to inject produced water meeting the RCRA Exempt waste status, and there is no restrictions regarding the source of the produced water in the permits (e.g. production wells, location or volumes). Please refer to the highlighted sections of each permit, attached.

**Time Period of Expanded Use:**

If approved by the Division, WPX would like to accept the subject produced water from WFS as long as the wells are operational.

**Temporary Water Storage Restrictions:**

There will be no change in the water storage system associated with either well. No water will be stored in pits or ponds following acceptance at the facility and prior to injection.

**Notice to the Surface Management Agency**

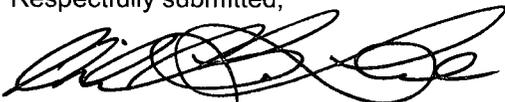
Please refer to the attached formal notice to the Bureau of Land Management –FFO of our intent to expand use of the subject injection wells.

**Certification:**

WPX is not requesting any variance from the general permit conditions, NMOCD rules, regulations, and/or any pertinent orders governing the operation and use of these wells.

Please contact myself (505) 634-4219 for Williams Production Co, LLC and Mr. David Bays of Williams Four Corners, LLC (505) 634-4951 if you require any additional information. Thank you for your time and consideration.

Respectfully submitted,



Michael K. Lane  
EHS Specialist  
Williams Production - San Juan Basin Operations

CC: Charlie Perrin, NMOCD Aztec District Office  
David Bays, WFS  
Mark Lepich, WPX Coal Team Lead  
WPX Env. Well Files

Encl: Analytical  
Permits  
BLM-FFO Sundries

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

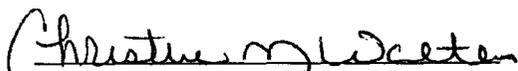
## CATION / ANION ANALYSIS

Client:	Williams Four Corners	Project #:	00068-005
Sample ID:	Produced Water	Date Reported:	04-06-07
Laboratory Number:	40719	Date Sampled:	04-03-07
Chain of Custody:	2332	Date Received:	04-03-07
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	04-05-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	6.82	s.u.		
Conductivity @ 25° C	5,230	umhos/cm		
Total Dissolved Solids @ 180C	3,030	mg/L		
Total Dissolved Solids (Calc)	3,010	mg/L		
SAR	26.6	ratio		
Total Alkalinity as CaCO3	774	mg/L		
Total Hardness as CaCO3	294	mg/L		
Bicarbonate as HCO3	774	mg/L	12.69	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	2.3	mg/L	0.04	meq/L
Nitrite Nitrogen	<0.001	mg/L	0.00	meq/L
Chloride	1,360	mg/L	38.37	meq/L
Fluoride	<0.01	mg/L	0.00	meq/L
Phosphate	19.4	mg/L	0.61	meq/L
Sulfate	<0.1	mg/L	0.00	meq/L
Iron	14.7	mg/L	0.53	meq/L
Calcium	93.6	mg/L	4.67	meq/L
Magnesium	14.7	mg/L	1.21	meq/L
Potassium	2.00	mg/L	0.05	meq/L
Sodium	1,050	mg/L	45.68	meq/L
Cations			51.60	meq/L
Anions			51.70	meq/L
Cation/Anion Difference			0.19%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Eul

  
Analyst

  
Review



# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

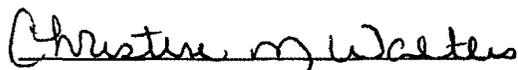
## CATION / ANION ANALYSIS

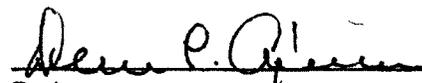
Client:	Williams	Project #:	00068-005
Sample ID:	Produced Water	Date Reported:	04-06-07
Laboratory Number:	40720	Date Sampled:	04-03-07
Chain of Custody:	2333	Date Received:	04-03-07
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	04-05-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	7.83	s.u.		
Conductivity @ 25° C	11,700	umhos/cm		
Total Dissolved Solids @ 180C	6,970	mg/L		
Total Dissolved Solids (Calc)	6,930	mg/L		
SAR	114	ratio		
Total Alkalinity as CaCO3	3,710	mg/L		
Total Hardness as CaCO3	102	mg/L		
Bicarbonate as HCO3	3,710	mg/L	60.81	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	2.7	mg/L	0.04	meq/L
Nitrite Nitrogen	0.006	mg/L	0.00	meq/L
Chloride	1,970	mg/L	55.57	meq/L
Fluoride	0.77	mg/L	0.04	meq/L
Phosphate	15.2	mg/L	0.48	meq/L
Sulfate	<0.1	mg/L	0.00	meq/L
Iron	1.23	mg/L	0.04	meq/L
Calcium	32.0	mg/L	1.60	meq/L
Magnesium	5.37	mg/L	0.44	meq/L
Potassium	8.85	mg/L	0.23	meq/L
Sodium	2,640	mg/L	114.84	meq/L
Cations			117.11	meq/L
Anions			116.94	meq/L
Cation/Anion Difference			0.14%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Bancos**

  
Analyst

  
Review



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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

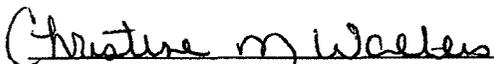
## CATION / ANION ANALYSIS

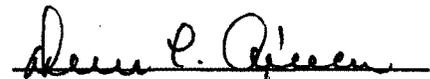
Client:	Williams	Project #:	00068-005
Sample ID:	Produced Water	Date Reported:	04-06-07
Laboratory Number:	40721	Date Sampled:	04-03-07
Chain of Custody:	2334	Date Received:	04-03-07
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	04-05-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	7.21	s.u.		
Conductivity @ 25° C	4,230	umhos/cm		
Total Dissolved Solids @ 180C	3,490	mg/L		
Total Dissolved Solids (Calc)	3,320	mg/L		
SAR	22.7	ratio		
Total Alkalinity as CaCO3	1,360	mg/L		
Total Hardness as CaCO3	436	mg/L		
Bicarbonate as HCO3	1,360	mg/L	22.29	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	6.5	mg/L	0.10	meq/L
Nitrite Nitrogen	0.030	mg/L	0.00	meq/L
Chloride	1,160	mg/L	32.72	meq/L
Fluoride	<0.01	mg/L	0.00	meq/L
Phosphate	48.1	mg/L	1.52	meq/L
Sulfate	<0.1	mg/L	0.00	meq/L
Iron	0.495	mg/L	0.02	meq/L
Calcium	170	mg/L	8.46	meq/L
Magnesium	2.92	mg/L	0.24	meq/L
Potassium	19.2	mg/L	0.49	meq/L
Sodium	1,090	mg/L	47.42	meq/L
Cations			56.61	meq/L
Anions			56.64	meq/L
Cation/Anion Difference			0.05%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Quintana Mesa**

  
Analyst

  
Review



# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## CATION / ANION ANALYSIS

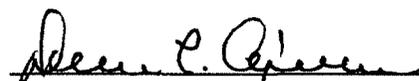
Client:	Williams	Project #:	00068-005
Sample ID:	Produced Water	Date Reported:	04-06-07
Laboratory Number:	40722	Date Sampled:	04-03-07
Chain of Custody:	2335	Date Received:	04-03-07
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	04-05-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	7.02	s.u.		
Conductivity @ 25° C	5,190	umhos/cm		
Total Dissolved Solids @ 180C	3,170	mg/L		
Total Dissolved Solids (Calc)	3,140	mg/L		
SAR	57.4	ratio		
Total Alkalinity as CaCO3	1,740	mg/L		
Total Hardness as CaCO3	80.0	mg/L		
Bicarbonate as HCO3	1,740	mg/L	28.52	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	17.5	mg/L	0.28	meq/L
Nitrite Nitrogen	0.002	mg/L	0.00	meq/L
Chloride	700	mg/L	19.75	meq/L
Fluoride	<0.01	mg/L	0.00	meq/L
Phosphate	147	mg/L	4.64	meq/L
Sulfate	<0.1	mg/L	0.00	meq/L
Iron	11.7	mg/L	0.42	meq/L
Calcium	32.0	mg/L	1.60	meq/L
Magnesium	<0.01	mg/L	0.00	meq/L
Potassium	7.00	mg/L	0.18	meq/L
Sodium	1,180	mg/L	51.33	meq/L
Cations			53.11	meq/L
Anions			53.19	meq/L
Cation/Anion Difference			0.16%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Laguna Seca**

  
Analyst

  
Review



# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

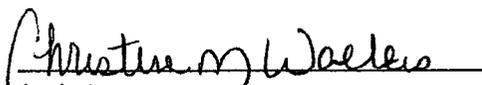
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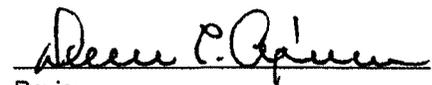
Client:	Williams	Project #:	00068-005
Sample ID:	Produced Water	Date Reported:	04-06-07
Laboratory Number:	40723	Date Sampled:	04-03-07
Chain of Custody:	2336	Date Received:	04-03-07
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	04-05-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	7.88	s.u.		
Conductivity @ 25° C	9,800	umhos/cm		
Total Dissolved Solids @ 180C	5,850	mg/L		
Total Dissolved Solids (Calc)	5,630	mg/L		
SAR	112	ratio		
Total Alkalinity as CaCO3	4,080	mg/L		
Total Hardness as CaCO3	66.0	mg/L		
Bicarbonate as HCO3	4,080	mg/L	66.87	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	1.0	mg/L	0.02	meq/L
Nitrite Nitrogen	0.017	mg/L	0.00	meq/L
Chloride	980	mg/L	27.65	meq/L
Fluoride	0.80	mg/L	0.04	meq/L
Phosphate	2.5	mg/L	0.08	meq/L
Sulfate	<0.1	mg/L	0.00	meq/L
Iron	0.137	mg/L	0.00	meq/L
Calcium	20.8	mg/L	1.04	meq/L
Magnesium	4.15	mg/L	0.34	meq/L
Potassium	0.20	mg/L	0.01	meq/L
Sodium	2,140	mg/L	93.09	meq/L
Cations			94.47	meq/L
Anions			94.65	meq/L
Cation/Anion Difference			0.19%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Martinez Draw**

  
Analyst

  
Review



# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

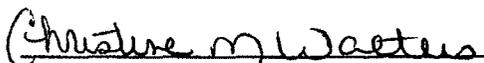
## CATION / ANION ANALYSIS

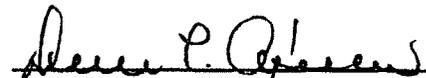
Client:	Williams	Project #:	00068-005
Sample ID:	Produced Water	Date Reported:	04-06-07
Laboratory Number:	40724	Date Sampled:	04-03-07
Chain of Custody:	2337	Date Received:	04-03-07
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	04-05-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	6.28	s.u.		
Conductivity @ 25° C	742	umhos/cm		
Total Dissolved Solids @ 180C	490	mg/L		
Total Dissolved Solids (Calc)	426	mg/L		
SAR	3.7	ratio		
Total Alkalinity as CaCO3	168	mg/L		
Total Hardness as CaCO3	140.0	mg/L		
Bicarbonate as HCO3	168	mg/L	2.75	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	1.9	mg/L	0.03	meq/L
Nitrite Nitrogen	0.018	mg/L	0.00	meq/L
Chloride	108	mg/L	3.05	meq/L
Fluoride	0.13	mg/L	0.01	meq/L
Phosphate	8.0	mg/L	0.25	meq/L
Sulfate	51.0	mg/L	1.06	meq/L
Iron	76.9	mg/L	2.75	meq/L
Calcium	52.8	mg/L	2.63	meq/L
Magnesium	1.95	mg/L	0.16	meq/L
Potassium	0.73	mg/L	0.02	meq/L
Sodium	99.7	mg/L	4.34	meq/L
Cations			7.15	meq/L
Anions			7.15	meq/L
Cation/Anion Difference			0.03%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: 31-6 CDP

  
Analyst

  
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# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

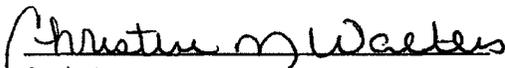
## CATION / ANION ANALYSIS

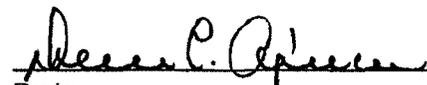
Client:	Williams	Project #:	00068-005
Sample ID:	Produced Water	Date Reported:	04-06-07
Laboratory Number:	40725	Date Sampled:	04-03-07
Chain of Custody:	2338	Date Received:	04-03-07
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	04-05-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	6.50	s.u.		
Conductivity @ 25° C	2,450	umhos/cm		
Total Dissolved Solids @ 180C	1,480	mg/L		
Total Dissolved Solids (Calc)	1,410	mg/L		
SAR	38.1	ratio		
Total Alkalinity as CaCO3	240	mg/L		
Total Hardness as CaCO3	32.0	mg/L		
Bicarbonate as HCO3	240	mg/L	3.93	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	4.9	mg/L	0.08	meq/L
Nitrite Nitrogen	0.094	mg/L	0.00	meq/L
Chloride	500	mg/L	14.11	meq/L
Fluoride	0.73	mg/L	0.04	meq/L
Phosphate	16.7	mg/L	0.53	meq/L
Sulfate	203	mg/L	4.22	meq/L
Iron	105	mg/L	3.75	meq/L
Calcium	9.60	mg/L	0.48	meq/L
Magnesium	1.95	mg/L	0.16	meq/L
Potassium	28.0	mg/L	0.72	meq/L
Sodium	495	mg/L	21.53	meq/L
Cations			22.89	meq/L
Anions			22.90	meq/L
Cation/Anion Difference			0.06%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: 30-5 CDP

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

2338

Client / Project Name				Project Location				ANALYSIS / PARAMETERS											
Williams				30-5 CDP				Containers		pH		TDS		Anions		Cations		Remarks	
Sampler: <i>Stan Paul</i>				Client No. 00068-005		Sample Matrix		No. of		pH		TDS		Anions		Cations		Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	Containers	pH	TDS	Anions	Cations	Remarks									
Produced H <sub>2</sub> O	4-3-07	2:05pm	40725	Water	1	X	X	X	X										
Relinquished by: (Signature) <i>Stan Paul</i>				Date	Time	Received by: (Signature)		Date		Time									
Relinquished by: (Signature) <i>Stan Paul</i>				4-3-07	4:30pm	<i>Carol Obegate</i>		4-3-07		4:30									
Relinquished by: (Signature)						Received by: (Signature)													

## ENVIROTECH INC.

5796 U.S. Highway 64  
 Farmington, New Mexico 87401  
 (505) 632-0615

Sample Receipt		
Y	N	N/A
Received Intact		
Cool - Ice/Blue Ice		

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007

**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.  
SF-078771

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE** – Other instructions on page 2.

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
Williams Production Co.

3a. Address  
PO Box 640, Aztec, NM

3b. Phone No. (include area code)  
505-634-4200

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2420' FSL & 1210' FEL, Sec23, Twp 31N, Rng 06W, NMPM

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

8. Well Name and No.  
Rosa Unit SWD #1

9. API Well No.  
30-039-27055

10. Field and Pool or Exploratory Area  
Entrada

11. Country or Parish, State  
Rio Arriba Co., NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" 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 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 recomplete 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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Once approval recieved from NMOCD, plan to accept produced water from Williams Field Service facilities including; Eul Canyon, Bancos Canyon, Quintana Mesa, Laguna Seca, Martinez Draw, 31-6 CDP, and 30-5 CDP.

14. I hereby certify that the foregoing is true and correct.  
Name (Printed/Typed)  
Michael K. Lane

Title EH&S Specialist - San Juan Basin Operations

Signature 

Date 7/23/07

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

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 \_\_\_\_\_

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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007

**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.  
SF-078769

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE** – Other instructions on page 2.

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator  
Williams Production Co.

3a. Address  
PO Box 640, Aztec, NM

3b. Phone No. (include area code)  
505-634-4200

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

8. Well Name and No.  
Rosa Unit 094

9. API Well No.  
30-039-23035

10. Field and Pool or Exploratory Area  
Blanco Mesa Verde Ext.

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1650' FSL & 1820' FEL, Sec 16, Twp 31N, Rng 05W, NMPM

11. Country or Parish, State  
Rio Arriba Co., NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" 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 type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
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Once approval recieved from NMOCD, plan to accept produced water from Williams Field Service facilities including; Eul Canyon, Bancos Canyon, Quintana Mesa, Laguna Seca, Martinez Draw, 31-6 CDP, and 30-5 CDP.

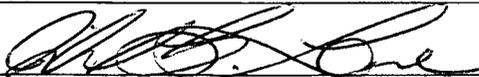
14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)

Michael K. Lane

Title EH&S Specialist - San Juan Basin Operations

Signature



Date

7/23/07

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

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Office

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