

**Laboratory Analytical Report**

Customer Name: EOG - DJ Basin  
Project ID: EOG-Colorado CWA

Order ID: 16121909  
Report Date: 12/23/2016

Lab Sample ID: 16121909-01 Date: 12/23/2016 Time: 3:10 PM  
Customer Sample ID: JUBILEE 121-2128H Collection: 12/7/2016 3:10 PM  
Matrix: Aqueous Received: 12/19/2016 12:59 PM

## Notes:

Analyses	Result	Units	RL	Qual.	Method	Analysis Date/Time	Analyst
Alkalinity, Bicarbonate (HCO <sub>3</sub> )	690.0	mg/L	2		SM 2320 B	12/21/2016 4:05:00 PM	JS
Alkalinity, Carbonate (CO <sub>3</sub> )	ND	mg/L	2		SM 2320 B	12/21/2016 4:05:00 PM	JS
Alkalinity, Hydroxide (OH)	ND	mg/L	2		SM 2320 B	12/21/2016 4:05:00 PM	JS
Total Alkalinity	690.0	mg/L	2		SM 2320 B	12/21/2016 4:05:00 PM	JS
Barium	74.5	mg/L	5		EPA 200.7	12/20/2016 5:38:19 PM	RG
Calcium	610	mg/L	5		EPA 200.7	12/20/2016 5:38:19 PM	RG
Calcium (meq/L)	30.4	meq/L	0		EPA 200.7	12/20/2016 5:38:19 PM	RG
Anions	551.3	meq/L	-50		Calculation	12/23/2016 10:46:00 AM	RG
Cation/Anion Balance	2.2	%	-50		Calculation	12/23/2016 10:46:00 AM	RG
Cations	576	meq/L	-50		Calculation	12/23/2016 10:46:00 AM	RG
Chloride	19140	mg/L	1000		EPA 300.0	12/22/2016 4:22:00 PM	TMC
Field pH - Strip	7.0	s.u.			Strip	12/21/2016 4:10:00 PM	JS
Ionic Strength	0.6	mol/L	0		Calculation	12/23/2016 10:46:00 AM	RG
Iron	14.5	mg/L	5		EPA 200.7	12/20/2016 5:38:19 PM	RG
Magnesium	83	mg/L	5		EPA 200.7	12/20/2016 5:38:19 PM	RG
Magnesium (meq/L)	6.8	meq/L	0		EPA 200.7	12/20/2016 5:38:19 PM	RG
Manganese	6.01	mg/L	5		EPA 200.7	12/20/2016 5:38:19 PM	RG
Phosphorus	ND	mg/L	5		EPA 200.7	12/20/2016 5:38:19 PM	RG
Potassium	140	mg/L	5		EPA 200.7	12/20/2016 5:38:19 PM	RG
Potassium (meq/L)	3.6	meq/L	0		EPA 200.7	12/20/2016 5:38:19 PM	RG
Resistivity, 25C	0.19	ohms m	0.01		SM 2510 B	12/21/2016 9:30:00 AM	JS
Sodium	12000	mg/L	500		EPA 200.7	12/20/2016 5:27:38 PM	RG
Sodium (meq/L)	535	meq/L	0		EPA 200.7	12/20/2016 5:27:38 PM	RG
Specific Gravity	1.025	g/cc	0.001		ASTM D 1429-03	12/21/2016 10:20:00 AM	JS

29 Country Acres Rd., Riverton, WY 82501 • E-mail: [Admin@Precision-Labs.com](mailto:Admin@Precision-Labs.com) • [www.Precision-Labs.com](http://www.Precision-Labs.com)

## Definitions:

ND-Not Detected at the reporting limit

S-Spike Recovery outside accepted recovery limits

D-Diluted out of recovery limits

RL-Analyte Reporting Limit

J-Analyte detected below quantitation limits

L-Analyzed by a contract laboratory

H-Holding times for preparation or analysis exceeded

M-Matrix Effect

Documentation will be kept for five (5) years.



Gas Measurement • Emissions Testing

Laboratory • Sample Collection

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Strontium	114	mg/L	5	EPA 200.7	12/20/2016 5:38:19 PM	RG
Sulfate	10.8	mg/L	2	EPA 375.4	12/22/2016 1:00:00 PM	TMC
Total Dissolved Solids (TDS)	32990	mg/L	5	Calculation	12/23/2016 10:46:00 AM	RG

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