

Last Fracture Date:	May 28, 2013
Last Submission Date:	July 04, 2013
Province:	AB
ERCB Field Centre:	Red Deer
Surface location:	14-08-043-27W4
Well Licence Number:	0455928
Licensee Name:	Artisan Energy Corporation
Unique Well Identifier:	02/09-08-043-27W4/0
Well Name:	ARTISAN 102 FBANK 9-8-43-27
Number of Stages:	14
Bottom Hole Latitude:	52.691626
Bottom Hole Longitude:	-113.873843
Lat/Long Projection:	NAD 83
Production Fluid Type:	Not Applicable
True Vertical Depth (TVD):	939.63
Total Water Volume (m3):	284

Hydraulic Fracturing Fluid Composition:

Fracture Start/End Date:	Component Type	Trade Name	Supplier	Purpose	Ingredient/Family Name	CAS # / HMIRC #	Concentration in Component (% by mass)	Concentration in HFF (% by mass)
May 28 2013 - May 28 2013	CARRIER FLUID				No specific ingredients	Not Available	100.000000%	49.081689%
	PROPPANT	SiberProp (20/40)	Canyon		Crystalline silica, quartz	14808-60-7	100.000000%	7.013459%
	PROPPANT	Sand (50/140)	Canyon		Crystalline silica, quartz	14808-60-7	94.000000%	1.098775%
	PROPPANT	Sand (20/40)	Canyon		Crystalline silica, quartz	14808-60-7	94.000000%	26.370609%
	PROPPANT	Sand (20/40)	Canyon		Aluminum Oxide	1344-28-1	5.000000%	1.402692%
	PROPPANT	Sand (50/140)	Canyon		Aluminum Oxide	1344-28-1	5.000000%	0.058445%
	PROPPANT	SiberProp (20/40)	Canyon		Phenol formaldehyde resin	9003-35-4	5.000000%	0.350673%
	PROPPANT	Sand (20/40)	Canyon		Iron Oxide	1309-37-1	1.000000%	0.280538%
	PROPPANT	Sand (50/140)	Canyon		Iron Oxide	1309-37-1	1.000000%	0.011689%
	PROPPANT	Sand (50/140)	Canyon		Titanium Oxide	13463-67-7	0.090000%	0.001052%
	PROPPANT	Sand (20/40)	Canyon		Titanium Oxide	13463-67-7	0.090000%	0.025248%
	ADDITIVE	AcResin Activator W	Canyon	Activator	Alcohols, C12-14 Secondary, Ethoxylated	84133-50-6	70.000000%	0.042179%
	ADDITIVE	AcResin Activator W	Canyon	Activator	Methyl Alcohol	67-56-1	50.000000%	0.030128%
	ADDITIVE	AcResin Activator W	Canyon	Activator	Polyethylene Glycol	25322-68-3	5.000000%	0.003012%

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May 28 2013 - May 28 2013	ADDITIVE	CAN-2310 Breaker (Enzyme LpH, 1000L:1L)	Canyon	Breaker	Water	7732-18-5	99.970000%	0.057921%
	ADDITIVE	CAN-2310 Breaker (Enzyme LpH, 1000L:1L)	Canyon	Breaker	Ethylene Glycol	107-21-1	0.030000%	0.000017%
	ADDITIVE	CAN-1952 Defoamer	Canyon	Defoamer	Propylene Glycol	57-55-6	60.000000%	0.005959%
	ADDITIVE	CAN-1952 Defoamer	Canyon	Defoamer	Water	7732-18-5	60.000000%	0.005959%
	ADDITIVE	CAN-1952 Defoamer	Canyon	Defoamer	Polyacrylate Thickner	Not Available	5.000000%	0.000496%
	ADDITIVE	CAN-1952 Defoamer	Canyon	Defoamer	Polyalkelene Glycol	25322-68-3	5.000000%	0.000496%
	ADDITIVE	CAN-1952 Defoamer	Canyon	Defoamer	Silica Filled, Silicone Oil	Not Available	5.000000%	0.000496%
	ADDITIVE	Nitrogen Gas	Canyon	Energizing Fluid	nitrogen	7727-37-9	99.900000%	13.876438%
	ADDITIVE	Nitrogen Gas	Canyon	Energizing Fluid	Non-hazardous base ingredient(s)	Not Available	0.100000%	0.013890%
	ADDITIVE	CAN-1300 Dispersant / Foamer	Canyon	Foamer	Water	7732-18-5	85.000000%	0.228833%
	ADDITIVE	CAN-1300 Dispersant / Foamer	Canyon	Foamer	Cocoamidopropylhydroxysul taine	68139-30-0	40.000000%	0.107686%
	ADDITIVE	CAN-2000 Gellant (Guar)	Canyon	Gelling Agent	Polysaccharide Suspension	Not Available	100.000000%	0.255157%
	ADDITIVE	CAN-2410 Demulsifier	Canyon	Surfactant	Water	7732-18-5	70.000000%	0.097489%
	ADDITIVE	CAN-2410 Demulsifier	Canyon	Surfactant	Methyl Alcohol	67-56-1	60.000000%	0.083562%

Comments:

*Information provided in this form is submitted in accordance with the requirements of ERCB Directive 59 Well Drilling and Completion Data Filing Requirements.

*Total Water Volume sources may include fresh water, produced water, recycled water, and/or other water types as listed in The "DDS Well Drilling Completion Data Submission System: A User Guide - Appendix D".

*CAS # - Chemical Abstract Service Number. Individual chemical ingredients have a unique CAS #. Specific ingredient names are shown for each CAS #. "Not Available" indicates the ingredient CAS # is not available.

*HMIRC # - Hazardous Material Information Review Commission (registry) number. The HMIRC # indicates the (hazardous) additive ingredient is considered to be confidential business information and is subject to a Hazardous Material Information Review Act claim exemption. General chemical family names are shown for each HMIRC #. "Not Available" indicates the ingredient HMIRC # is not available.

***Trade Secret** indicates the (non-hazardous) additive ingredient is considered to be confidential business information. General chemical family names are reported for ingredients considered "Trade Secret".