



Gas Analysis

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780-429-9919

Lot Number:
Report Number:
Reference Sample ID:

1122830
2083408
5350837

30513G Meter # / Sample ID		ARC Resources Ltd. Operator		EX11484/EX12360 Container Identity	
100/04-20-080-14W6/00 Location		ARCRES HZ DOE 01-17-080-14 Well Name		30513 Well License No.	
Heritage Field/Area		Montney A Formation		Montney A Pool	
Prod Test Type		Joel M. Sampler		Intricate Group Company	
n/a Multiple Recovery		Separator - U/S of meter Sample Point		01-17-080-14 W6 Surface Location	
				683.0 GR Elev, m	
				01-17-080-14 W6 Surface Location	
				Sampling Method	
				Other Information	

Test Interval, m	Test Recovery: Dawson (05-35)				
	Type of Production:	Pumping	Flowing	Gas Lift	Swab
Perforations, m	Production Rates:	Water	m ³ /d Oil	m ³ /d Gas	10 ³ m ³ /d
	Gauge Pressure, kPa	3188.0	3200	100/04-20-080-14W6/00G01S	
	Temperature, °C	45.0	22	Other ID	Sample Point ID
		Source	Received		

2016-02-17	2016-02-18	2016-02-25		
Date Sampled (Y-M-D)	Time Sampled	Date Received (Y-M-D)	Date Reported (Y-M-D)	Date On
				Date Off

Comp.	Mole Fraction (Air Free)		Petroleum Liquid Content mL/m ³
	As Received	Acid Gas Free	
H2	0.0001	0.0001	
He	0.0001	0.0001	
N2	0.0021	0.0021	
CO2	0.0015	0.0000	
H2S	0.0001	0.0000	
C1	0.8409	0.8424	
C2	0.0849	0.0850	301.7
C3	0.0377	0.0377	138.5
iC4	0.0068	0.0068	29.7
nC4	0.0128	0.0128	53.9
iC5	0.0035	0.0035	17.1
nC5	0.0040	0.0040	19.4
C6	0.0029	0.0029	15.9
C7+	0.0026	0.0026	16.9
Total	1.0000	1.0000	593.1

Gross Heating Value, MJ/m ³			Pseudocritical Properties	
AGA #5	AGA #5	GPA 2172	Pressure, kPa	Temperature, K
As Received	Acid Gas Free	As Received		
45.60	45.66	45.60	4575	215.5
Density Ideal Gas (AGA #5)			Density Real Gas (GPA 2172)	
Absolute, kg/m ³		Relative	Absolute, kg/m ³	Relative
0.848		0.692	0.850	0.694
Relative Molecular Mass			Mole Fraction C7+	Vapour Pressure
Total Gas		C7+	Pentanes Plus, kPa	
20.04		106.68	0.0026	80
C7+ Fraction As Gas			C7+ Density Liquid	
Relative Density	GHV (MJ/m ³)		Relative	kg/m ³
3.683	225.60		0.698	697
Hydrogen Sulfide			Compressibility Z	
g/m ³			AGA #5	GPA #2172
0.14			0.99674	0.99670
Hydrogen Sulfide				
ppm (mol/mol)	Method	Field Value (ppm)	Field Method	
100.0	Stain Tube	100.0	Stain Tube	

• Cylinder H2S value determined by GC/TCD: <0.01 % (mol/mol)

Results provided by Exova Canada Inc.
Results relate only to items tested.

Approved by Robert Lessard, Consulting Scientist - Reservoir Fluids
Validated by Julie Hemraj;