

Client: EnCana  
Client Project: - D31 12DBX Stray gas

CLIENT IDENTIFIER	ANALYSIS DATE	CO2 %	Argon %	OXYGEN %	NITROGEN %	Helium %
20150123-D31 12DBX (Production)	11-Feb-15	7.5024	ND	0.5	1.6	0.0125
20150123-D31 12DBX (Braden)	11-Feb-15	ND	ND	ND	ND	0.0109
20150123-D31 12DBX (Surface)	11-Feb-15	ND	ND	ND	ND	0.0168
ND indicates not detected						

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**Vista GeoScience - Fixed Gas Analysis**  
 Normalized Data  
 Method 3C (Subset of Landfill Method 25C)

Hydrogen %	Neon %	CO %	METHANE %	Ethane %	Ethene %	Propane %	Propene %	iButane %
7.47E-03	0.0014	ND	82.5703	5.57E+00	ND	1.33E+00	ND	3.621E-01
1.92E-03	0.0007	ND	92.8256	3.86E+00	ND	1.93E+00	ND	3.37E-01
8.70E-04	0.0001	ND	92.8326	3.85E+00	ND	1.93E+00	ND	3.35E-01

Vist Project Number: 15022.01

Analyst: RB

nButane %	iPentane %	nPentane %	iHexane %	nHexane %	TOTAL
2.063E-01	1.276E-01	5.775E-02	9.55E-02	2.82E-02	100
5.88E-01	1.85E-01	1.40E-01	8.53E-02	3.43E-02	100
5.94E-01	1.84E-01	1.43E-01	7.88E-02	3.46E-02	100

# C1-C6 Hydrocarbons by FID

	GAS CONCENTRATION			
	Methane	Ethane	Ethene	Propane
20150123-D31 12DBX (Production)	740545.90	49937.92	0.00	11935.13
20150123-D31 12DBX (Braden)	745315.57	30981.00	0.00	15524.54
20150123-D31 12DBX (Surface)	718090.64	29771.09	0.00	14941.50

# hydrocarbons by FID Gas Chromatography

## GAS CONCENTRATIONS BY VOLUME

(Parts-per-Million by Volume)

Propene	iButane	nButane	iPentane	nPentane	iHexane	nHexane
0.00	3247.45	1850.46	1144.05	517.94	856.91	253.11
0.00	2702.43	4721.65	1484.56	1121.19	684.74	275.26
0.00	2589.95	4593.24	1423.31	1108.14	609.74	267.57