



Container Identification
00017266A

Operator Name
HITIC ENERGY

Laboratory Number
14GR800814A

Unique Well Identifier	Well Name
100/01-18-065-18W5/00	HEL Hz KABOB 1-18-65-18

Field or Area	Pool or Zone	Sampler's Company
KAYBOB	DUVERNAY	CENTENNIAL WELL TESTING

Well License	Elevation		Test Type	Test No.	Name of Sampler
0453977	KB m	GRD m			NOT AVAILABLE

Test Interval or Perfs mKB	Sampling Point	Separator	Reservoir	Source	Sampled	Received
	METER RUN			827	827	850
		Pressure (kPa)		28	28	21
		Temperature				

Date Sampled	Date Received	Date Analyzed	Date Reported	Location - Approved By - Title
Jan 10, 2013	Jan 14, 2014	Jan 15, 2014	Jan 15, 2014	Calgary - Gerry Ecker - Reporter

Other Information
TIGHT HOLE

* Results relate only to the items tested

COMP	MOLE FRACTION		PETROLEUM LIQUID mL / m ³
	AIR FREE AS RECEIVED	AIR FREE ACID GAS FREE	
H2	0.0004	0.0004	
He	0.0004	0.0004	
N2	0.0132	0.0133	
CO2	0.0082	0.0000	
H2S	0.0000	0.0000	
C1	0.6565	0.6621	
C2	0.1751	0.1765	
C3	0.0976	0.0984	358.7
IC4	0.0103	0.0104	45.0
NC4	0.0248	0.0250	104.3
IC5	0.0045	0.0045	22.0
NC5	0.0046	0.0046	22.3
C6	0.0025	0.0025	13.7
C7+	0.0019	0.0019	12.0
Total	1.0000	1.0000	578.0

GROSS HEATING VALUE MJ/m³ 15° C AND 101.325 kPa

Air Free As Received	Moisture & Acid Gas Free	C7+, Air Free As Received
52.21	52.63	0.40

RELATIVE DENSITY (CALCULATED)

Moisture Free	Moisture & Acid Gas Free	C7+, Moisture Free	C7+, Portion Whole Density	C7+ Density (kg/m ³)	Total Sample Density(kg/m ³)
0.827	0.821	3.536	0.007	691.2	1.012

PSEUDO CRITICAL PROPERTIES (CALCULATED)

As Sampled		Acid Gas Free	
pPc (abs) kPa	pTc K	pPc (abs) kPa	pTc K
4568.1	240.1	4545.0	239.6

RELATIVE MOLECULAR MASS

Total Gas	C7+
23.9	102.4

VAPOUR PRESSURE (Pentanes +)

91.32 kPa

H2S g/m³

0.00

This analysis and calculations are based on GPA 2261, GPA 2145, and AGA#5

