



June 10, 2008

CQI Report to Stakeholders

Subject: April 2008 Condensate Results

As of January 1, 2008, the Crude Quality Monitoring Project has modified its condensate testing program. We acknowledge that industry requirements and specifications are different for condensates than for other types of crude. As such, we have updated our condensate testing program in an effort to provide the industry with reliable, accurate, and usable information specifically relevant to condensates. We believe that this information will be valuable for numerous industry purposes, such as better blending data and formulating condensate specifications and guidelines. Should you have any questions regarding this report, or the modified condensate testing program, please contact Crude Quality Inc. at (780) 991-9900 or at lywood@crudequality.com.

Observations:

Attached are detailed C30+ composition and trace sulphur analyses, as well as historical data from crudemonitor.ca pertaining to typical light ends and bulk properties for Condensate Blend (CRW).

In addition to the attached, we note the following testing results:

	Sample Date	Batch #	Sulphur (wt%)	API Gravity (degree)	Absolute Density (kg/m ³)	MCR (wt%)	Viscosity @ 7.5° C (cSt)	RVP (kPa)	Organo-Phosphates (ppmw)	Total Mercaptans (ppm)	Olefins (wt%)
Current Data	4/07/2008	CRW-774	0.32	65	721	0.40	0.86	73.9	1	106	ND
	4/14/2008	CRW-775	0.25	65	720.6	0.20	0.87	-	-	112	-
Average To Date			0.17	64.7	720.6	0.24	0.83	74.8	1	107	5xND
Std Dev.			0.7	2.1	7.5	0.14	0.06	1.2	-	12	-
Avg+StdDev			0.24	66.8	728.2	0.38	0.88	76.0	-	119	-
Avg-StdDev			0.10	62.7	713.1	0.10	0.77	73.6	-	94	-

Two samples of Condensate Blend (CRW) were received for testing in April. Slightly elevated MCR and sulphur levels were observed in the April 7th sample of CRW. The remainder of the sulphur, density, and MCR observed in April were consistent with historical data. More data will need to be collected to comment on viscosity, RVP, organo-phosphates, and total mercaptans, as well as the attached hydrocarbon and trace sulphur analyses.



A sample of Joarcam Condensate (CLN) was also received for testing in April. In addition to the attached C30+ composition and trace sulphur analyses, we note the following test results:

	Sample Date	Batch #	Sulphur (wt%)	API Gravity (degree)	Abs. Density (kg/m³)	MCR (wt%)	Viscosity @ 7.5°C (cSt)	RVP (kPa)	Total Mercaptans (ppm)
Current Data	4/17/08	CLN-001	0.25	55	758.5	1.1	2.08	84	30

This is the first sample of Joarcam condensate (CLN) to be received by the Crude Quality Monitoring Project. As such, no statements can be made with reference to historical averages.



C30+ COMPOSITIONAL ANALYSIS

A821995:J79240

MaxxID

Client ID

Meter Number

Laboratory Number

CRUDE QUALITY INC.

Operator Name

LSD

Well ID

CRUDE QUALITY INC.

ENBRIDGE

Well Name

Initials of Sampler

Sampling Company

COND. BLEND CRW-774

1L CAN

Field or Area

Pool or Zone

Sample Point

Container Identity

Percent Full

Test Recovery

Interval 1 Interval 2 Interval 3

Elevations (m)

Sample Gathering Point

Solution Gas

Test Type No. Multiple Recovery

From:

To:

KB

GRD

Well Fluid Status

Well Status Mode

Production Rates

Gauge Pressures kPa

Temperature °C

Well Status Type

Well Type

Water m3/d

Oil m3/d

Gas 1000m3/d

Source

As Received

Source

As Received

Gas or Condensate Project

Licence No.

2008/04/07

2008/05/12

2008/06/02

2008/06/03

MM1,GS1

Date Sampled Start

Date Sampled End

Date Received

Date Reported

Date Reissued

Analyst

COMPOSITION

COMPONENT	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
N2			
CO2			
H2S			
C1	0.0000	0.0000	0.0000
C2	0.0004	0.0001	0.0002
C3	0.0045	0.0021	0.0028
IC4	0.0078	0.0047	0.0059
NC4	0.0394	0.0238	0.0287
IC5	0.1694	0.1269	0.1437
NC5	0.1737	0.1301	0.1457
C6	0.1753	0.1568	0.1661
C7+	0.4295	0.5555	0.5069
TOTAL	1.0000	1.0000	1.0000

PROPERTIES

RESIDUE	RELATIVE DENSITY @ 15 °C		RELATIVE MOLECULAR MASS		DATA SUMMARY		
	OBSERVED	CALCULATED	OBSERVED	CALCULATED	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
C5+		0.712		98	0.9479	0.9693	0.9624
C6+		0.748		113	0.6048	0.7123	0.6730
C7+	0.774		129	125	0.4295	0.5555	0.5069
C10+					0.1072	0.2176	0.1858
C12+					0.0617	0.1514	0.1249
TOTAL		0.707		96			

Calculated Absolute Density Total Sample: 706.4 kg/m3 @ 15°C
 Gas Equivalent Factor: 170.14 m3 Gas/m3 Liquid

** Information not supplied by client -- data derived from LSD information

Results relate only to items tested

Remarks:



C30+ COMPOSITIONAL ANALYSIS

CRUDE QUALITY INC.

A821995:J79240

Operator Name

Laboratory Number

CRUDE QUALITY INC.

COND. BLEND CRW-774

Well Name

Sample Point

ENBRIDGE

Sampling Company

MaxxID

Client ID

2008/04/07

2008/05/12

2008/06/02

2008/06/03

MM1,GS1

Date Sampled Start

Date Sampled End

Date Received

Date Reported

Date Reissued

Analyst

COMPONENT	BOILING POINT (°C)	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
Nitrogen	-196			
Carbon Dioxide	-79			
Hydrogen Sulphide	-60			
Methane	-162	0.0000	0.0000	0.0000
Ethane	-89	0.0004	0.0001	0.0002
Propane	-42	0.0045	0.0021	0.0028
Iso-Butane	-12	0.0078	0.0047	0.0059
n-Butane	0	0.0394	0.0238	0.0287
Iso-Pentane	28	0.1694	0.1269	0.1437
n-Pentane	36	0.1737	0.1301	0.1457
Hexanes	37-69	0.1753	0.1568	0.1661
Heptanes	70-98	0.1530	0.1466	0.1424
Octanes	99-126	0.1161	0.1257	0.1184
Nonanes	127-151	0.0532	0.0656	0.0603
Decanes	152-174	0.0294	0.0416	0.0391
Undecanes	175-196	0.0161	0.0246	0.0218
Dodecanes	197-216	0.0103	0.0173	0.0151
Triadecanes	217-236	0.0084	0.0152	0.0131
Tetradecanes	237-253	0.0063	0.0123	0.0105
Pentadecanes	254-271	0.0054	0.0115	0.0097
Hexadecanes	272-287	0.0036	0.0083	0.0069
Heptadecanes	288-302	0.0042	0.0104	0.0086
Octadecanes	303-317	0.0033	0.0085	0.0070
NonaDecanes	318-331	0.0023	0.0063	0.0051
Eicosanes	332-343	0.0025	0.0070	0.0057
Heneicosanes	344-357	0.0022	0.0066	0.0053
Docosanes	358-369	0.0017	0.0054	0.0044
Triacosanes	370-380	0.0017	0.0055	0.0044
Tetracosanes	381-391	0.0014	0.0050	0.0040
Pentacosanes	392-402	0.0013	0.0047	0.0037
Hexacosanes	403-412	0.0012	0.0043	0.0034
Heptacosanes	413-422	0.0011	0.0039	0.0030
Octacosanes	423-432	0.0010	0.0039	0.0030
Nonacosanes	433-441	0.0009	0.0035	0.0028
triacontanes+	442-449+	0.0029	0.0118	0.0092
Totals		1.0000	1.0000	1.0000
neoHexane	50	0.0002	0.0002	0.0002
Methylcyclopentane	70	0.0327	0.0286	0.0267
Benzene	80	0.0135	0.0109	0.0088
Cyclohexane	81	0.0278	0.0243	0.0219
Methylcyclohexane	101	0.0372	0.0379	0.0346
Toluene	111	0.0220	0.0210	0.0170
Ethylbenzene	136	0.0020	0.0023	0.0018
m&p-Xylene	139	0.0138	0.0152	0.0122
o-Xylene	144	0.0038	0.0041	0.0032
1,2,4-Trimethylbenzene	169	0.0043	0.0056	0.0044

** Information not supplied by client -- data derived from LSD information

Results relate only to items tested

Remarks:



TRACE SULPHUR ANALYSIS

A821995:J79241

MaxxID		Client ID		Meter Number		Laboratory Number	
CRUDE QUALITY INC.				LSD		Well ID	
Operator Name				LSD		ENBRIDGE	
CRUDE QUALITY INC.				Initials of Sampler		Sampling Company	
Well Name				COND. BLEND CRW-774		1L CAN	
Field or Area		Pool or Zone		Sample Point		Container Identity	
Percent Full							
Test Recovery		Interval 1 Interval 2 Interval 3		Elevations (m)		Sample Gathering Point	
From:		To:		KB GRD		Well Fluid Status	
Well Status Mode							
Production Rates		Gauge Pressures kPa		Temperature °C		Well Status Type	
Water m3/d Oil m3/d Gas 1000m3/d		Source As Received		23.0		Well Type	
				Source As Received		Gas or Condensate Project	
Licence No.							
2008/04/07		2008/05/12		2008/06/02		2008/06/03	
Date Sampled Start		Date Sampled End		Date Received		Date Reported	
						AG	
						Analyst	

COMPOSITION			Boiling Pt. (°C)	Sulphur mole ppm	Sulphur mass ppm	PROPERTIES
Component	Common Name					
Hydrogen Sulphide	H2S		-60.4	<0.5	<0.5	Molecular Wt. (gmole) Measured
Carbonyl Sulphide	COS		-50	<0.5	<0.5	
Methanethiol	Methyl mercaptan		6.2	14.2	4.5	
Ethanethiol	Ethyl mercaptan		35	84.1	26.9	
Dimethyl Sulphide	DMS		38	23.2	7.4	Molecular Wt. (gmole) Calculated
Carbon Disulphide	CS2		46.5	5.5	1.8	
Iso-Propanethiol	Iso-propyl mercaptan		58	102.5	32.8	Onsite H2S ppm(mole) mole%
t-Butanethiol	tert-butyl mercaptan		64	17.6	5.6	
Methyl Ethyl Sulphide	MES		67	11.7	3.8	
n-Propanethiol	Propyl mercaptan		70	20.6	6.6	
Unknown			36-69	<0.5	<0.5	
Thiophene/sec-Butanethiol	Thiophene/sec-Butyl mercaptan		84/90	64.7	20.7	
Diethyl Sulphide	DES		92.1	5.2	1.7	
Iso-Butanethiol	Iso-butyl mercaptan		99	4.2	1.3	
n-Butanethiol	Butyl mercaptan		98	8.3	2.7	
Unknown			71-97	7.0	2.2	
Dimethyl Disulphide	DMDS		110	13.7	4.4	
n-Pentanethiol	Pentyl mercaptan		127	2.5	0.8	
Unknown			100-126	62.2	19.9	
n-Hexanethiol	Hexyl mercaptan		151	9.1	2.9	
Unknown			127-150	73.0	23.4	
n-Heptanethiol	Heptyl mercaptan		177	3.7	1.2	
Unknown			152-176	95.8	30.7	
Total Sulphur				10056	3218.0	
Mercaptan Sulphur on Naphtha fraction (IBP 204°C) ASTM D3227 (mass%) Naphtha IBP 204°C (volume %) Elemental Sulphur (mass ppm)						

** Information not supplied by client -- data derived from LSD information

Results relate only to items tested

Remarks:



C30+ COMPOSITIONAL ANALYSIS

A821995:J79242

MaxxID

Client ID

Meter Number

Laboratory Number

CRUDE QUALITY INC.

Operator Name

LSD

Well ID

CRUDE QUALITY INC.

ENBRIDGE

Well Name

Initials of Sampler

Sampling Company

COND. BLEND CRW-775

1L CAN

Field or Area

Pool or Zone

Sample Point

Container Identity

Percent Full

Test Recovery

Interval 1 Interval 2 Interval 3

Elevations (m)

Sample Gathering Point

Solution Gas

Test Type No. Multiple Recovery

From:

To:

KB

GRD

Well Fluid Status

Well Status Mode

Production Rates

Gauge Pressures kPa

Temperature °C

Well Status Type

Well Type

Water m3/d

Oil m3/d

Gas 1000m3/d

Source

As Received

Source

As Received

Gas or Condensate Project

Licence No.

21.0

2008/04/14

2008/05/12

2008/06/02

2008/06/03

MM1,GS1

Date Sampled Start

Date Sampled End

Date Received

Date Reported

Date Reissued

Analyst

COMPOSITION

COMPONENT	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
N2			
CO2			
H2S			
C1	0.0000	0.0000	0.0000
C2	Trace	Trace	Trace
C3	0.0045	0.0020	0.0028
IC4	0.0076	0.0045	0.0057
NC4	0.0425	0.0254	0.0309
IC5	0.1629	0.1209	0.1375
NC5	0.1655	0.1228	0.1382
C6	0.1721	0.1528	0.1625
C7+	0.4449	0.5716	0.5224
TOTAL	1.0000	1.0000	1.0000

PROPERTIES

RESIDUE	RELATIVE DENSITY @ 15 °C		RELATIVE MOLECULAR MASS		DATA SUMMARY		
	OBSERVED	CALCULATED	OBSERVED	CALCULATED	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
C5+		0.715		100	0.9454	0.9681	0.9606
C6+		0.751		114	0.6170	0.7244	0.6849
C7+	0.776		125	125	0.4449	0.5716	0.5224
C10+					0.1171	0.2305	0.1973
C12+					0.0614	0.1502	0.1233
TOTAL		0.710		97			

Calculated Absolute Density Total Sample: 709.4 kg/m3 @ 15°C
 Gas Equivalent Factor: 172.33 m3 Gas/m3 Liquid

** Information not supplied by client -- data derived from LSD information

Results relate only to items tested

Remarks:

The observed C7+ molecular weight is a calculated value.



C30+ COMPOSITIONAL ANALYSIS

CRUDE QUALITY INC.

A821995:J79242

Operator Name

Laboratory Number

CRUDE QUALITY INC.

COND. BLEND CRW-775

Well Name

Sample Point

ENBRIDGE

Sampling Company

MaxxID

Client ID

2008/04/14

2008/05/12

2008/06/02

2008/06/03

MM1,GS1

Date Sampled Start

Date Sampled End

Date Received

Date Reported

Date Reissued

Analyst

COMPONENT	BOILING POINT (°C)	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
Nitrogen	-196			
Carbon Dioxide	-79			
Hydrogen Sulphide	-60			
Methane	-162	0.0000	0.0000	0.0000
Ethane	-89	Trace	Trace	Trace
Propane	-42	0.0045	0.0020	0.0028
Iso-Butane	-12	0.0076	0.0045	0.0057
n-Butane	0	0.0425	0.0254	0.0309
Iso-Pentane	28	0.1629	0.1209	0.1375
n-Pentane	36	0.1655	0.1228	0.1382
Hexanes	37-69	0.1721	0.1528	0.1625
Heptanes	70-98	0.1567	0.1488	0.1447
Octanes	99-126	0.1161	0.1249	0.1181
Nonanes	127-151	0.0550	0.0674	0.0623
Decanes	152-174	0.0348	0.0487	0.0459
Undecanes	175-196	0.0209	0.0316	0.0281
Dodecanes	197-216	0.0108	0.0179	0.0156
Triadecanes	217-236	0.0081	0.0145	0.0125
Tetradecanes	237-253	0.0059	0.0117	0.0099
Pentadecanes	254-271	0.0054	0.0115	0.0097
Hexadecanes	272-287	0.0040	0.0090	0.0075
Heptadecanes	288-302	0.0040	0.0097	0.0080
Octadecanes	303-317	0.0029	0.0076	0.0062
NonaDecanes	318-331	0.0021	0.0058	0.0047
Eicosanes	332-343	0.0022	0.0064	0.0052
Heneicosanes	344-357	0.0020	0.0062	0.0049
Docosanes	358-369	0.0017	0.0051	0.0041
Triacosanes	370-380	0.0015	0.0047	0.0037
Tetracosanes	381-391	0.0013	0.0043	0.0035
Pentacosanes	392-402	0.0013	0.0045	0.0035
Hexacosanes	403-412	0.0015	0.0052	0.0041
Heptacosanes	413-422	0.0010	0.0037	0.0029
Octacosanes	423-432	0.0011	0.0040	0.0031
Nonacosanes	433-441	0.0010	0.0037	0.0028
triacontanes+	442-449+	0.0036	0.0147	0.0114
Totals		1.0000	1.0000	1.0000
neoHexane	50	0.0000	0.0000	0.0000
Methylcyclopentane	70	0.0329	0.0285	0.0267
Benzene	80	0.0140	0.0112	0.0089
Cyclohexane	81	0.0290	0.0251	0.0227
Methylcyclohexane	101	0.0372	0.0376	0.0343
Toluene	111	0.0202	0.0191	0.0155
Ethylbenzene	136	0.0031	0.0034	0.0027
m&p-Xylene	139	0.0128	0.0141	0.0113
o-Xylene	144	0.0031	0.0033	0.0027
1,2,4-Trimethylbenzene	169	0.0050	0.0064	0.0051

** Information not supplied by client -- data derived from LSD information

Results relate only to items tested

Remarks:

The observed C7+ molecular weight is a calculated value.



TRACE SULPHUR ANALYSIS

A821995:J79243

MaxxID		Client ID		Meter Number		Laboratory Number	
CRUDE QUALITY INC.				LSD		Well ID	
Operator Name				LSD		ENBRIDGE	
CRUDE QUALITY INC.				Initials of Sampler		Sampling Company	
Well Name				COND. BLEND CRW-775		1L CAN	
Field or Area		Pool or Zone		Sample Point		Container Identity	
Percent Full							
Test Recovery		Interval 1 Interval 2 Interval 3		Elevations (m)		Sample Gathering Point	
From:		To:		KB GRD		Well Fluid Status	
Well Status Mode							
Production Rates		Gauge Pressures kPa		Temperature °C		Well Status Type	
Water m3/d Oil m3/d Gas 1000m3/d		Source As Received		23.0		Well Type	
				Source As Received		Gas or Condensate Project	
Licence No.							
2008/04/14		2008/05/12		2008/06/02		2008/06/03	
Date Sampled Start		Date Sampled End		Date Received		Date Reported	
						AG	
						Analyst	

COMPOSITION			Boiling Pt. (°C)	Sulphur mole ppm	Sulphur mass ppm	PROPERTIES
Component	Common Name					
Hydrogen Sulphide	H2S		-60.4	<0.5	<0.5	Molecular Wt. (gmole) Measured
Carbonyl Sulphide	COS		-50	<0.5	<0.5	
Methanethiol	Methyl mercaptan		6.2	15.2	4.9	Molecular Wt. (gmole) Calculated
Ethanethiol	Ethyl mercaptan		35	94.8	30.3	
Dimethyl Sulphide	DMS		38	25.3	8.1	Onsite H2S
Carbon Disulphide	CS2		46.5	4.6	1.5	
Iso-Propanethiol	Iso-propyl mercaptan		58	105.0	33.6	ppm(mole) mole%
t-Butanethiol	tert-butyl mercaptan		64	17.0	5.4	
Methyl Ethyl Sulphide	MES		67	13.5	4.3	
n-Propanethiol	Propyl mercaptan		70	21.5	6.9	
Unknown			36-69	<0.5	<0.5	
Thiophene/sec-Butanethiol	Thiophene/sec-Butyl mercaptan		84/90	65.9	21.1	
Diethyl Sulphide	DES		92.1	5.8	1.9	
Iso-Butanethiol	Iso-butyl mercaptan		99	4.2	1.3	
n-Butanethiol	Butyl mercaptan		98	7.7	2.5	
Unknown			71-97	7.7	2.5	
Dimethyl Disulphide	DMDS		110	15.8	5.0	
n-Pentanethiol	Pentyl mercaptan		127	2.5	0.8	
Unknown			100-126	59.9	19.2	
n-Hexanethiol	Hexyl mercaptan		151	9.0	2.9	
Unknown			127-150	66.7	21.3	
n-Heptanethiol	Heptyl mercaptan		177	7.0	2.2	
Unknown			152-176	84.8	27.1	
Total Sulphur				7719	2470.0	

Mercaptan Sulphur on Naphtha fraction (IBP 204°C) ASTM D3227 (mass%)
Naphtha IBP 204°C (volume %)
Elemental Sulphur (mass ppm)

** Information not supplied by client -- data derived from LSD information

Results relate only to items tested

Remarks:

Light Crude Quality Project Analyses Summary (December 2007)

Crude	Sample Date	No. Samples or Batch #	Sulphur (wt%)	API Density (degree)	Absolute Density (kg/m3)	Sediment (ppmw)	MCR (wt%)	Salt (ptb)	TAN (mgKOH/g)	Nickel (mg/L)	Vanadium (mg/L)
CRW Condensate Blend											
	2005 Q2	3	0.17	62.9	727.0		0.2			43.5	4.8
	2005 Q3	3	0.16	63.3	725.8		0.4			17.9	2.4
	2005 Q4	3	0.17	63.6	724.6		0.3				3.6
	2006 Q1	4	0.16	64.8	720.2		0.3				6.8
	2006 Q2	3	0.21	63.3	725.9		0.3				1.4
	2006 Q3	2	0.17	62.1	730.2		0.2				1.2
	2006 Q4	2	0.13	67.0	712.2		0.1				
	2007 Q1	3	0.13	65.4	718.1		0.2				
	2007 Q2	3	0.10	67.6	710.3		0.1				
	2007 Q3	3	0.13	65.7	717.0		0.2				
	2007 Q4	3	0.22	64.8	720.3		0.2				1.6
	2008 Q1	1	0.39	65.1	719.2		0.4				
	12/1/2007	CRW-753	0.15	67.6	710.2		0.1				
	1/1/2008	CRW-757	0.39	65.1	719.2		0.4				
	Average		0.17	64.6	721.0		0.2			35.0	3.2
	Std Dev		0.07	2.1	7.7		0.1			13.1	2.0
	Avg + StdDev		0.24	66.7	728.7		0.4			48.1	5.2
	Avg - StdDev		0.10	62.5	713.3		0.1			21.9	1.2

Light Crude Quality Project Light Ends Summary (December 2007)

Crude Sample Date	Count of Batches or Batch No.	Ethane (vol%)	Propane (vol%)	Butanes (vol%)	Pentanes (vol%)	Hexanes (vol%)	Heptanes (vol%)	Octanes (vol%)	Nonanes (vol%)	Decanes (vol%)	Benzene (vol%)	Toluene (vol%)	Ethyl Benzene (vol%)	Xylenes (vol%)	
CRW Condensate Blend															
2005 Q2	3	0.02	0.32	3.54	23.63	21.20	15.23	10.08	5.12	2.28	1.15	2.10	0.23	1.86	
2005 Q3	3	0.02	0.23	3.23	23.45	21.28	16.37	10.77	5.51	2.45	1.23	2.34	0.25	2.03	
2005 Q4	3	0.02	0.23	3.15	21.79	21.60	16.33	11.80	6.09	2.40	1.16	2.26	0.30	2.13	
2006 Q1	4	0.02	0.19	2.76	22.50	22.77	14.89	10.86	6.18	2.49	1.23	2.07	0.28	1.92	
2006 Q2	3	0.02	0.27	3.42	22.51	19.93	15.65	10.90	5.69	2.30	1.06	2.08	0.26	1.86	
2006 Q3	2	0.02	0.28	2.96	20.36	19.74	16.38	11.82	6.08	2.52	1.06	2.19	0.29	2.06	
2006 Q4	2	0.02	0.22	3.37	25.43	22.50	15.32	10.35	5.29	2.09	1.13	2.00	0.25	1.82	
2007 Q1	3	0.02	0.24	3.33	24.64	24.26	15.17	10.54	5.29	2.17	1.27	2.10	0.27	1.93	
2007 Q2	3	0.02	0.20	3.22	25.40	23.30	15.51	10.59	5.37	1.96	1.25	2.15	0.27	1.86	
2007 Q3	3	0.02	0.24	3.42	23.97	20.53	15.46	10.25	5.10	2.08	1.08	2.13	0.25	1.82	
2007 Q4	3	0.02	0.26	3.49	24.77	21.60	16.06	11.39	5.70	2.22	1.08	2.15	0.30	1.97	
2008 Q1	1	0.02	0.21	3.06	25.40	21.80	16.14	11.48	5.53	2.05	1.07	2.13	0.31	1.99	
12/1/2007	CRW-753	0.02	0.18	2.89	26.08	22.84	16.97	11.76	5.53	2.07	1.14	2.22	0.3	1.94	
1/1/2008	CRW-757	0.02	0.21	3.06	25.4	21.8	16.14	11.48	5.53	2.05	1.07	2.13	0.31	1.99	
Average		0.02	0.24	3.25	23.56	21.77	15.65	10.85	5.59	2.27	1.16	2.14	0.27	1.93	
Std Dev		0.01	0.06	0.34	2.28	1.95	0.94	0.96	0.65	0.30	0.12	0.16	0.04	0.16	
Avg + StdDev		0.03	0.30	3.59	25.84	23.72	16.59	11.82	6.24	2.56	1.28	2.30	0.31	2.09	
Avg - StdDev		0.01	0.18	2.91	21.28	19.82	14.71	9.89	4.94	1.97	1.04	1.99	0.23	1.78	



C30+ COMPOSITIONAL ANALYSIS

A821995:J79194

MaxxID

Client ID

Meter Number

Laboratory Number

CRUDE QUALITY INC.

Operator Name

LSD

Well ID

CRUDE QUALITY INC.

ENBRIDGE

Well Name

Initials of Sampler

Sampling Company

JOARCAM COND. CLN-001

1L CAN

Field or Area

Pool or Zone

Sample Point

Container Identity

Percent Full

Test Recovery

Interval 1 Interval 2 Interval 3

Elevations (m)

Sample Gathering Point

Solution Gas

Test Type No. Multiple Recovery

From: To:

KB GRD

Well Fluid Status

Well Status Mode

Production Rates

Gauge Pressures kPa

Temperature °C

Well Status Type

Well Type

Water m3/d Oil m3/d Gas 1000m3/d

Source As Received

21.0
Source As Received

Gas or Condensate Project

Licence No.

2008/04/17

2008/05/12

2008/06/02

2008/06/03

MM1,GS1

Date Sampled Start

Date Sampled End

Date Received

Date Reported

Date Reissued

Analyst

COMPOSITION

COMPONENT	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
N2			
CO2			
H2S			
C1	0.0000	0.0000	0.0000
C2	Trace	Trace	Trace
C3	0.0043	0.0017	0.0026
IC4	0.0130	0.0069	0.0092
NC4	0.0686	0.0364	0.0467
IC5	0.2254	0.1485	0.1788
NC5	0.1485	0.0977	0.1164
C6	0.1130	0.0889	0.0998
C7+	0.4272	0.6199	0.5465
TOTAL	1.0000	1.0000	1.0000

PROPERTIES

RESIDUE	RELATIVE DENSITY @ 15 °C		RELATIVE MOLECULAR MASS		DATA SUMMARY		
	OBSERVED	CALCULATED	OBSERVED	CALCULATED	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
C5+		0.762		114	0.9141	0.9550	0.9415
C6+		0.824		144	0.5402	0.7088	0.6463
C7+	0.852		159	159	0.4272	0.6199	0.5465
C10+					0.2012	0.4080	0.3417
C12+					0.1475	0.3389	0.2779
TOTAL		0.751		110			

Calculated Absolute Density Total Sample: 750.3 kg/m3 @ 15°C
 Gas Equivalent Factor: 161.94 m3 Gas/m3 Liquid

** Information not supplied by client -- data derived from LSD information

Results relate only to items tested

Remarks:



C30+ COMPOSITIONAL ANALYSIS

CRUDE QUALITY INC.

A821995:J79194

Operator Name

Laboratory Number

CRUDE QUALITY INC.

JOARCAM COND. CLN-001

Well Name

Sample Point

ENBRIDGE

Sampling Company

MaxxID

Client ID

2008/04/17

2008/05/12

2008/06/02

2008/06/03

MM1,GS1

Date Sampled Start

Date Sampled End

Date Received

Date Reported

Date Reissued

Analyst

COMPONENT	BOILING POINT (°C)	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
Nitrogen	-196			
Carbon Dioxide	-79			
Hydrogen Sulphide	-60			
Methane	-162	0.0000	0.0000	0.0000
Ethane	-89	Trace	Trace	Trace
Propane	-42	0.0043	0.0017	0.0026
Iso-Butane	-12	0.0130	0.0069	0.0092
n-Butane	0	0.0686	0.0364	0.0467
Iso-Pentane	28	0.2254	0.1485	0.1788
n-Pentane	36	0.1485	0.0977	0.1164
Hexanes	37-69	0.1130	0.0889	0.0998
Heptanes	70-98	0.1029	0.0872	0.0854
Octanes	99-126	0.0818	0.0789	0.0754
Nonanes	127-151	0.0413	0.0458	0.0440
Decanes	152-174	0.0316	0.0393	0.0372
Undecanes	175-196	0.0221	0.0298	0.0266
Dodecanes	197-216	0.0166	0.0244	0.0214
Triadecanes	217-236	0.0152	0.0243	0.0211
Tetradecanes	237-253	0.0133	0.0230	0.0197
Pentadecanes	254-271	0.0126	0.0238	0.0202
Hexadecanes	272-287	0.0093	0.0188	0.0157
Heptadecanes	288-302	0.0105	0.0227	0.0188
Octadecanes	303-317	0.0091	0.0209	0.0173
NonaDecanes	318-331	0.0065	0.0156	0.0127
Eicosanes	332-343	0.0068	0.0170	0.0137
Heneicosanes	344-357	0.0061	0.0164	0.0132
Docosanes	358-369	0.0055	0.0151	0.0121
Triacosanes	370-380	0.0052	0.0145	0.0116
Tetracosanes	381-391	0.0046	0.0135	0.0107
Pentacosanes	392-402	0.0039	0.0122	0.0096
Hexacosanes	403-412	0.0039	0.0125	0.0098
Heptacosanes	413-422	0.0032	0.0105	0.0083
Octacosanes	423-432	0.0032	0.0107	0.0084
Nonacosanes	433-441	0.0028	0.0099	0.0078
triacontanes+	442-449+	0.0092	0.0331	0.0258
Totals		1.0000	1.0000	1.0000
neoHexane	50	0.0001	0.0001	0.0001
Methylcyclopentane	70	0.0227	0.0174	0.0163
Benzene	80	0.0069	0.0049	0.0039
Cyclohexane	81	0.0174	0.0134	0.0121
Methylcyclohexane	101	0.0271	0.0243	0.0222
Toluene	111	0.0094	0.0079	0.0064
Ethylbenzene	136	0.0007	0.0006	0.0005
m&p-Xylene	139	0.0067	0.0064	0.0053
o-Xylene	144	0.0002	0.0002	0.0002
1,2,4-Trimethylbenzene	169	0.0041	0.0046	0.0037

** Information not supplied by client -- data derived from LSD information

Results relate only to items tested

Remarks:



TRACE SULPHUR ANALYSIS

A821995:J79195

MaxxID		Client ID		Meter Number		Laboratory Number	
CRUDE QUALITY INC.				LSD		Well ID	
Operator Name				LSD		ENBRIDGE	
CRUDE QUALITY INC.				Initials of Sampler		Sampling Company	
Well Name				JOARCAM COND. CLN-001		1L CAN	
Field or Area		Pool or Zone		Sample Point		Container Identity	
Percent Full							
Test Recovery		Interval 1 Interval 2 Interval 3		Elevations (m)		Sample Gathering Point	
From:		To:		KB GRD		Well Fluid Status	
Test Type No. Multiple Recovery						Well Status Mode	
Production Rates		Gauge Pressures kPa		Temperature °C		Well Status Type	
Water m3/d Oil m3/d Gas 1000m3/d		Source As Received		23.0		Well Type	
				Source As Received		Gas or Condensate Project	
						Licence No.	
2008/04/17		2008/05/12		2008/06/02		2008/06/03	
Date Sampled Start		Date Sampled End		Date Received		Date Reported	
						AG	
						Analyst	

COMPOSITION			Boiling Pt. (°C)	Sulphur mole ppm	Sulphur mass ppm	PROPERTIES
Component	Common Name					
Hydrogen Sulphide	H2S		-60.4	<0.5	<0.5	Molecular Wt. (gmole) Measured
Carbonyl Sulphide	COS		-50	<0.5	<0.5	
Methanethiol	Methyl mercaptan		6.2	2.2	0.6	
Ethanethiol	Ethyl mercaptan		35	19.6	5.2	Molecular Wt. (gmole) Calculated
Dimethyl Sulphide	DMS		38	15.3	4.1	
Carbon Disulphide	CS2		46.5	3.2	0.9	
Iso-Propanethiol	Iso-propyl mercaptan		58	31.2	8.3	Onsite H2S ppm(mole) mole%
t-Butanethiol	tert-butyl mercaptan		64	6.1	1.6	
Methyl Ethyl Sulphide	MES		67	9.5	2.5	
n-Propanethiol	Propyl mercaptan		70	4.9	1.3	
Unknown			36-69	<0.5	<0.5	
Thiophene/sec-Butanethiol	Thiophene/sec-Butyl mercaptan		84/90	21.1	5.6	
Diethyl Sulphide	DES		92.1	4.0	1.1	
Iso-Butanethiol	Iso-butyl mercaptan		99	1.0	<0.5	
n-Butanethiol	Butyl mercaptan		98	2.1	0.5	
Unknown			71-97	3.8	1.0	
Dimethyl Disulphide	DMDS		110	6.0	1.6	
n-Pentanethiol	Pentyl mercaptan		127	<0.5	<0.5	
Unknown			100-126	20.6	5.5	
n-Hexanethiol	Hexyl mercaptan		151	13.8	3.7	
Unknown			127-150	29.1	7.8	
n-Heptanethiol	Heptyl mercaptan		177	11.6	3.1	
Unknown			152-176	47.2	12.6	
Total Sulphur				9514	2537.0	
Mercaptan Sulphur on Naphtha fraction (IBP 204°C) ASTM D3227 (mass%) Naphtha IBP 204°C (volume %) Elemental Sulphur (mass ppm)						

** Information not supplied by client -- data derived from LSD information

Results relate only to items tested

Remarks: