



November 26, 2009

CQI Report to Stakeholders

Subject: September 2009 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 crudequality@gmail.com.

Observations:

Attached are detailed C30+ compositional 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	09/01/09	CRW-850	0.1	66.8	712.9	0.2	0.75	70	<0.1	92	-
Average To Date			0.19	65.3	718.5	0.23	0.79	75.2	0.9	102	8xND
Std Dev.			0.08	2.1	7.7	0.13	0.05	3	0.23	19	-
Avg+StdDev			0.27	67.4	726.2	0.36	0.84	78.2	1.13	121	-
Avg-StdDev			0.11	63.2	710.7	0.10	0.74	72.2	0.67	83	-

The September sample of CRW had slightly lower than average RVP, marginally elevated C10s and C11s, and contained 43 wppm of sediment. No organo-phosphates were detected.

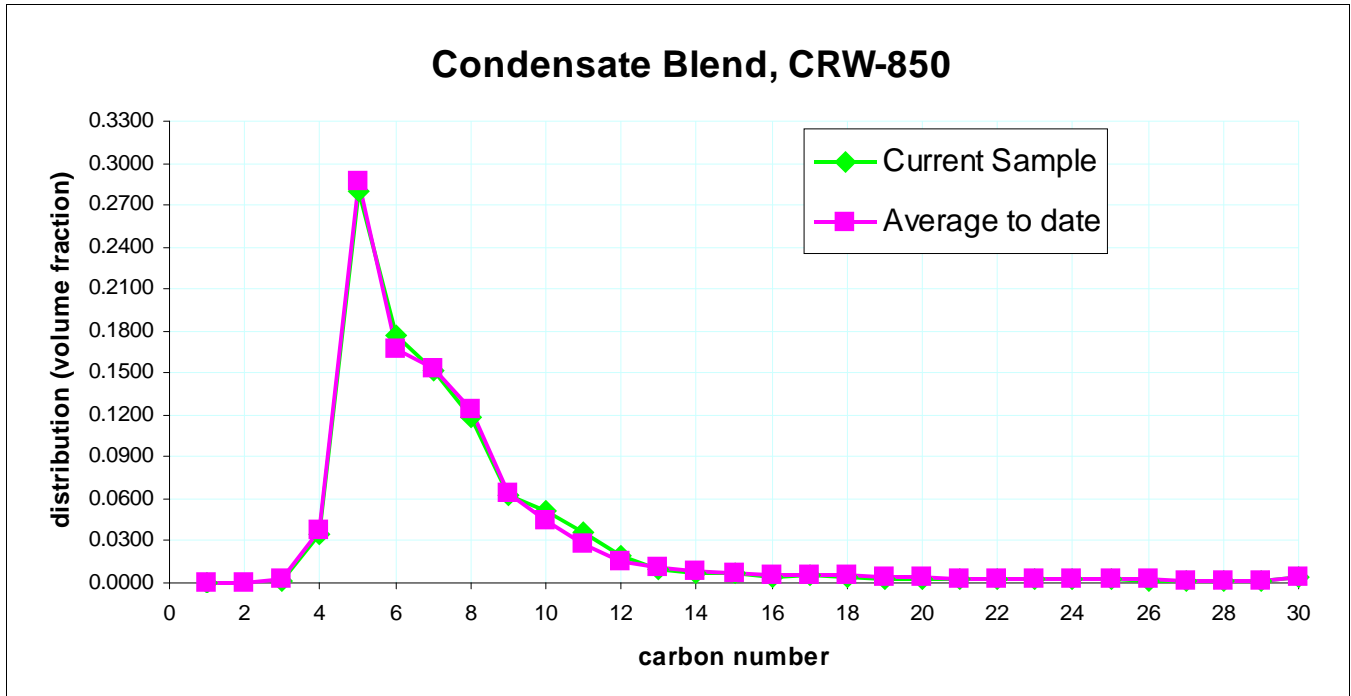


Figure 1: C30+ Compositional Analysis for CRW-850



C30+ COMPOSITIONAL ANALYSIS

A957200:R21599

MaxID

Client ID

Meter Number

Laboratory Number

CRUDE QUALITY INC.

Operator Name

LSD

Well ID

CRUDE QUALITY INC. SEP09 LIGHT CRUDES

ENBRIDGE

Well Name

Initials of Sampler

Sampling Company

COND. BLEND CRW-850

1L CAN

Field or Area

Pool or Zone

Sample Point

Container Identity

Percent Full

Test Recovery

Interval

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.

2009/09/01

2009/10/13

2009/10/30

SK1,GS1,AS9

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	0.0028	0.0013	0.0018
IC4	0.0065	0.0040	0.0049
NC4	0.0401	0.0246	0.0294
IC5	0.1570	0.1194	0.1338
NC5	0.1736	0.1320	0.1463
C6	0.1863	0.1693	0.1770
C7+	0.4337	0.5494	0.5068
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+		0.704		97	0.9506	0.9701	0.9639
C6+		0.736		110	0.6200	0.7187	0.6838
C7+	0.759		120	120	0.4337	0.5494	0.5068
C10+					0.1055	0.1999	0.1746
C12+					0.0434	0.1040	0.0863
TOTAL		0.700		95			

Calculated Absolute Density Total Sample: 699.4 kg/m3 @ 15°C
 Gas Equivalent Factor: 352.58 m3 Gas/m3 Liquid

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

Results relate only to items tested

Remarks:

Distillation Corrected to 101.3 kPa



C30+ COMPOSITIONAL ANALYSIS

CRUDE QUALITY INC.

A957200:R21599

Operator Name

Laboratory Number

CRUDE QUALITY INC. SEP09 LIGHT CRUDES

COND. BLEND CRW-850

Well Name

Sample Point

ENBRIDGE

Sampling Company

MaxxID

Client ID

2009/09/01

2009/10/13

2009/10/30

SK1,GS1,AS9

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	0.0028	0.0013	0.0018
Iso-Butane	-12	0.0065	0.0040	0.0049
n-Butane	0	0.0401	0.0246	0.0294
Iso-Pentane	28	0.1570	0.1194	0.1338
n-Pentane	36	0.1736	0.1320	0.1463
Hexanes	37-69	0.1863	0.1693	0.1770
Heptanes	70-98	0.1618	0.1567	0.1518
Octanes	99-126	0.1132	0.1255	0.1182
Nonanes	127-151	0.0532	0.0673	0.0622
Decanes	152-174	0.0374	0.0552	0.0522
Undecanes	175-196	0.0247	0.0407	0.0361
Dodecanes	197-216	0.0120	0.0216	0.0188
Triadecanes	217-236	0.0062	0.0120	0.0104
Tetradecanes	237-253	0.0039	0.0082	0.0070
Pentadecanes	254-271	0.0034	0.0076	0.0064
Hexadecanes	272-287	0.0024	0.0054	0.0045
Heptadecanes	288-302	0.0024	0.0059	0.0049
Octadecanes	303-317	0.0017	0.0045	0.0037
NonaDecanes	318-331	0.0013	0.0037	0.0030
Eicosanes	332-343	0.0014	0.0040	0.0032
Heneicosanes	344-357	0.0012	0.0039	0.0031
Docosanes	358-369	0.0011	0.0035	0.0028
Triacosanes	370-380	0.0009	0.0033	0.0026
Tetracosanes	381-391	0.0009	0.0030	0.0024
Pentacosanes	392-402	0.0009	0.0030	0.0023
Hexacosanes	403-412	0.0007	0.0023	0.0018
Heptacosanes	413-422	0.0006	0.0023	0.0018
Octacosanes	423-432	0.0005	0.0020	0.0016
Nonacosanes	433-441	0.0005	0.0019	0.0015
triacontanes+	442-449+	0.0014	0.0059	0.0045
Totals		1.0000	1.0000	1.0000
neoHexane	50	0.0000	0.0000	0.0000
Methylcyclopentane	70	0.0377	0.0334	0.0311
Benzene	80	0.0135	0.0111	0.0089
Cyclohexane	81	0.0277	0.0246	0.0221
Methylcyclohexane	101	0.0356	0.0368	0.0335
Toluene	111	0.0202	0.0196	0.0158
Ethylbenzene	136	0.0022	0.0025	0.0020
m&p-Xylene	139	0.0130	0.0145	0.0117
o-Xylene	144	0.0038	0.0042	0.0034
1,2,4-Trimethylbenzene	169	0.0042	0.0054	0.0044

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Remarks:

Distillation Corrected to 101.3 kPa



TRACE SULPHUR ANALYSIS

A957200:R21600

MaxID

Client ID

Meter Number

Laboratory Number

CRUDE QUALITY INC.

Operator Name

LSD

Well ID

CRUDE QUALITY INC. SEP09 LIGHT CRUDES

ENBRIDGE

Well Name

Initials of Sampler

Sampling Company

COND. BLEND CRW-850

1L CAN

Field or Area

Pool or Zone

Sample Point

Container Identity

Percent Full

Test Recovery

Interval

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.

2009/09/01

2009/10/13

2009/10/30

CB

Date Sampled Start

Date Sampled End

Date Received

Date Reported

Date Reissued

Analyst

COMPOSITION		Boiling Pt. (°C)	Sulphur mole ppm	Sulphur mass ppm	PROPERTIES
Component	Common Name				
Hydrogen Sulphide	H2S	-60.4	<0.5	<0.5	<p>Molecular Wt. (g/mole) Measured</p> <p>Molecular Wt. (g/mole) Calculated</p> <p>Onsite H2S</p> <p>ppm(mole) mole%</p>
Carbonyl Sulphide	COS	-50	9.7	3.1	
Methanethiol	Methyl mercaptan	6.2	7.1	2.3	
Ethanethiol	Ethyl mercaptan	35	57.9	18.3	
Dimethyl Sulphide	DMS	38	20.5	6.5	
Carbon Disulphide	CS2	46.5	3.8	1.2	
Iso-Propanethiol	Iso-propyl mercaptan	58	92.8	29.4	
t-Butanethiol	tert-butyl mercaptan	64	16.3	5.2	
Methyl Ethyl Sulphide	MES	67	14.8	4.7	
n-Propanethiol	Propyl mercaptan	70	14.3	4.5	
Unknown		36-69	<0.5	<0.5	
Thiophene/sec-Butanethiol	Thiophene/sec-Butyl mercaptan	84/90	57.2	18.1	
Diethyl Sulphide	DES	92.1	6.6	2.1	
Iso-Butanethiol	Iso-butyl mercaptan	99	1.5	0.5	
n-Butanethiol	Butyl mercaptan	98	5.0	1.6	
Unknown		71-97	7.1	2.2	
Dimethyl Disulphide	DMDS	110	15.0	4.7	
n-Pentanethiol	Pentyl mercaptan	127	9.6	3.0	
Unknown		100-126	54.9	17.4	
n-Hexanethiol	Hexyl mercaptan	151	21.6	6.8	
Unknown		127-150	64.4	20.4	
n-Heptanethiol	Heptyl mercaptan	177	8.3	2.6	
Unknown		152-176	80.3	25.5	
Total Sulphur			5302	1679.9	
<p>Mercaptan Sulphur on Naphtha fraction (IBP 204°C) ASTM D3227 (mass%) Naphtha IBP 204°C (volume %) Elemental Sulphur (mass ppm)</p>					

** 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