



C30+ COMPOSITIONAL ANALYSIS

B231569:DF0854

<i>MaxxID</i>	<i>Client ID</i>	<i>Meter Number</i>	<i>Laboratory Number</i>
CRUDE QUALITY INC.			
<i>Operator Name</i>		<i>LSD</i>	<i>Well ID</i>
CRUDE QUALITY INC. MINI ASSAY			MAXXAM ANALYTICS
<i>Well Name</i>		<i>Initials of Sampler</i>	<i>Sampling Company</i>
		FOSTERTON NAPHTHA IBP - 190°C	4L CAN
<i>Field or Area</i>	<i>Pool or Zone</i>	<i>Sample Point</i>	<i>Container Identity</i> <i>Percent Full</i>
<i>Test Recovery</i>		<i>Interval</i>	<i>Elevations (m)</i>
<i>Test Type</i>	<i>No.</i> <i>Multiple Recovery</i>	<i>From:</i> <i>To:</i>	<i>Sample Gathering Point</i> <i>Solution Gas</i>
		KB GRD	<i>Well Fluid Status</i> <i>Well Status Mode</i>
<i>Production Rates</i>		<i>Gauge Pressures kPa</i>	<i>Well Status Type</i> <i>Well Type</i>
<i>Water m3/d</i>	<i>Oil m3/d</i> <i>Gas 1000m3/d</i>	<i>Temperature °C</i> 23	<i>Gas or Condensate Project</i> <i>Licence No.</i>
		<i>Source</i> <i>As Received</i>	
		<i>Source</i> <i>As Received</i>	
<i>Date Sampled Start</i>	<i>Date Sampled End</i>	<i>Date Received</i>	<i>Date Reported</i> <i>Date Reissued</i> <i>Analyst</i>
		2012/04/18	2012/05/01 FA1

COMPOSITION			
COMPONENT	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
N2			
CO2			
H2S			
C1	0.0000	0.0000	0.0000
C2	Trace	Trace	Trace
C3	0.0054	0.0023	0.0032
IC4	0.0153	0.0085	0.0107
NC4	0.1416	0.0786	0.0956
IC5	0.0316	0.0218	0.0248
NC5	0.0377	0.0260	0.0293
C6	0.0949	0.0781	0.0830
C7+	0.6735	0.7847	0.7534
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
C5+		0.727		114	0.8377	0.9106
C6+		0.733		118	0.7684	0.8628
C7+	0.740		122	122	0.6735	0.7847
C10+					0.2218	0.3115
C12+					0.0062	0.0100
TOTAL		0.711		105		0.0087

Calculated Absolute Density Total Sample: 710.4 kg/m3 @ 15°C
 Gas Equivalent Factor: 160.25 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.

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Operator Name

Laboratory Number

CRUDE QUALITY INC. MINI ASSAY

FOSTERTON NAPHTHA IBP - 190°C

Well Name

Sample Point

MAXXAM ANALYTICS

Sampling Company

MaxxD

Client ID

2012/04/18

2012/05/01

FA1

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	0.0054	0.0023	0.0032
Iso-Butane	-12	0.0153	0.0085	0.0107
n-Butane	0	0.1416	0.0786	0.0956
Iso-Pentane	28	0.0316	0.0218	0.0248
n-Pentane	36	0.0377	0.0260	0.0293
Hexanes	37-69	0.0949	0.0781	0.0830
Heptanes	70-98	0.1433	0.1310	0.1318
Octanes	99-126	0.1603	0.1684	0.1656
Nonanes	127-151	0.1481	0.1738	0.1652
Decanes	152-174	0.1386	0.1867	0.1794
Undecanes	175-196	0.0770	0.1148	0.1027
Dodecanes	197-216	0.0062	0.0100	0.0087
Triadecanes	217-236	Trace	Trace	Trace
Tetradecanes	237-253	Trace	Trace	Trace
Pentadecanes	254-271	Trace	Trace	Trace
Hexadecanes	272-287	Trace	Trace	Trace
Heptadecanes	288-302	Trace	Trace	Trace
Octadecanes	303-317	Trace	Trace	Trace
NonaDecanes	318-331	Trace	Trace	Trace
Eicosanes	332-343	Trace	Trace	Trace
Heneicosanes	344-357	Trace	Trace	Trace
Docosanes	358-369	Trace	Trace	Trace
Triacosanes	370-380	Trace	Trace	Trace
Tetracosanes	381-391	Trace	Trace	Trace
Pentacosanes	392-402	Trace	Trace	Trace
Hexacosanes	403-412	Trace	Trace	Trace
Heptacosanes	413-422	Trace	Trace	Trace
Octacosanes	423-432	Trace	Trace	Trace
Nonacosanes	433-441	Trace	Trace	Trace
triacontanes+	442-449+	Trace	Trace	Trace
Totals		1.0000	1.0000	1.0000
neoHexane	50	0.0000	0.0000	0.0000
Methylcyclopentane	70	0.0235	0.0189	0.0177
Benzene	80	0.0020	0.0015	0.0012
Cyclohexane	81	0.0141	0.0114	0.0103
Methylcyclohexane	101	0.0296	0.0278	0.0255
Toluene	111	0.0090	0.0079	0.0065
Ethylbenzene	136	0.0118	0.0120	0.0098
m&p-Xylene	139	0.0174	0.0176	0.0143
o-Xylene	144	0.0064	0.0064	0.0052
1,2,4-Trimethylbenzene	169	0.0082	0.0097	0.0078

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