



C30+ COMPOSITIONAL ANALYSIS

MIDALE

B357254:GV6572

MaxID

Client ID

Meter Number

Laboratory Number

CRUDE QUALITY INC.

Operator Name

LSD

Well ID

CRUDE QUALITY INC. MINI ASSAY

MAXXAM ANALYTICS

Well Name

Initials of Sampler

Sampling Company

MSM NAPHTHA IBP - 190°C

4L 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.

2013/07/09

2013/08/22

FA1

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	0.0110	0.0045	0.0065
IC4	0.0086	0.0046	0.0059
NC4	0.0398	0.0216	0.0267
IC5	0.0357	0.0240	0.0278
NC5	0.0499	0.0336	0.0385
C6	0.0973	0.0783	0.0846
C7+	0.7577	0.8334	0.8100
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+		0.729		110	0.9406	0.9693	0.9609
C6+		0.737		114	0.8550	0.9117	0.8946
C7+	0.744		118	118	0.7577	0.8334	0.8100
C10+					0.2078	0.2856	0.2704
C12+					0.0090	0.0146	0.0130
TOTAL		0.723		107			

Calculated Absolute Density Total Sample: 722.3 kg/m3 @ 15°C
 Gas Equivalent Factor: 159.18 m3 Gas/m3 Liquid

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

Results relate only to items tested

Remarks:



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CRUDE QUALITY INC.

B357254:GV6572

Operator Name

Laboratory Number

CRUDE QUALITY INC. MINI ASSAY

MSM NAPHTHA IBP - 190°C

Well Name

Sample Point

MAXXAM ANALYTICS

MIDALE

Sampling Company

MaxxID

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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	0.0110	0.0045	0.0065
Iso-Butane	-12	0.0086	0.0046	0.0059
n-Butane	0	0.0398	0.0216	0.0267
Iso-Pentane	28	0.0357	0.0240	0.0278
n-Pentane	36	0.0499	0.0336	0.0385
Hexanes	37-69	0.0973	0.0783	0.0846
Heptanes	70-98	0.2067	0.1785	0.1776
Octanes	99-126	0.1927	0.1952	0.1927
Nonanes	127-151	0.1505	0.1741	0.1693
Decanes	152-174	0.1307	0.1717	0.1671
Undecanes	175-196	0.0681	0.0993	0.0903
Dodecanes	197-216	0.0076	0.0122	0.0109
Triadecanes	217-236	0.0011	0.0018	0.0016
Tetradecanes	237-253	0.0003	0.0006	0.0005
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	0.0000	0.0000	0.0000
triacontanes+	442-449+	0.0000	0.0000	0.0000
Totals		1.0000	1.0000	1.0000
neoHexane	50	Trace	Trace	Trace
Methylcyclopentane	70	0.0338	0.0265	0.0253
Benzene	80	0.0268	0.0196	0.0160
Cyclohexane	81	0.0294	0.0232	0.0214
Methylcyclohexane	101	0.0333	0.0305	0.0285
Toluene	111	0.0260	0.0224	0.0186
Ethylbenzene	136	0.0206	0.0203	0.0168
m&p-Xylene	139	0.0043	0.0043	0.0035
o-Xylene	144	0.0048	0.0048	0.0040
1,2,4-Trimethylbenzene	169	0.0114	0.0131	0.0108

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