



C30+ COMPOSITIONAL ANALYSIS

MaxID		Client ID		Meter Number		B260630:DY9044 Laboratory Number	
CRUDE QUALITY INC.							
Operator Name CQI CNS MINI ASSAY JUN 2012				LSD		Well ID MAXXAM ANALYTICS	
Well Name				Initials of Sampler		Sampling Company	
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	
From:		To:		KB GRD		Solution Gas	
Test Type		No.		Multiple Recovery		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		Well Type	
Source		As Received		Source		As Received	
Gas or Condensate Project		Licence No.					
Date Sampled Start		Date Sampled End		Date Received		Date Reported	
Date Reissued		Analyst		GM1			

COMPOSITION				PROPERTIES							
COMPONENT	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION	RESIDUE	RELATIVE DENSITY @ 15 °C		RELATIVE MOLECULAR MASS		DATA SUMMARY		
					OBSERVED	CALCULATED	OBSERVED	CALCULATED	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
N2											
CO2											
H2S											
C1	0.0000	0.0000	0.0000	C5+		0.736		113	0.9379	0.9670	0.9584
C2	Trace	Trace	Trace	C6+		0.748		119	0.8087	0.8816	0.8593
C3	0.0003	0.0001	0.0002	C7+	0.759		125	125	0.6859	0.7846	0.7536
IC4	0.0073	0.0039	0.0051	C10+					0.2517	0.3449	0.3213
NC4	0.0545	0.0290	0.0363	C12+					0.0190	0.0310	0.0271
				TOTAL		0.729		109			
IC5	0.0466	0.0308	0.0360	Calculated Absolute Density Total Sample: 728.3 kg/m3 @ 15°C							
NC5	0.0826	0.0546	0.0631	Gas Equivalent Factor: 157.60 m3 Gas/m3 Liquid							
C6	0.1228	0.0970	0.1057								
C7+	0.6859	0.7846	0.7536								
TOTAL	1.0000	1.0000	1.0000								

Remarks:



C30+ COMPOSITIONAL ANALYSIS

CRUDE QUALITY INC.

B260630:DY9044

Operator Name

Laboratory Number

CQI CNS MINI ASSAY JUN 2012

NAPHTHA IBP - 190°C

Well Name

Sample Point

MAXXAM ANALYTICS

Sampling Company

MaxxID

Client ID

2012/07/13

2012/08/01

GM1

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	0.0003	0.0001	0.0002
Iso-Butane	-12	0.0073	0.0039	0.0051
n-Butane	0	0.0545	0.0290	0.0363
Iso-Pentane	28	0.0466	0.0308	0.0360
n-Pentane	36	0.0826	0.0546	0.0631
Hexanes	37-69	0.1228	0.0970	0.1057
Heptanes	70-98	0.1339	0.1180	0.1198
Octanes	99-126	0.1514	0.1533	0.1514
Nonanes	127-151	0.1489	0.1684	0.1611
Decanes	152-174	0.1396	0.1806	0.1746
Undecanes	175-196	0.0931	0.1333	0.1196
Dodecanes	197-216	0.0176	0.0274	0.0243
Triadecanes	217-236	0.0005	0.0009	0.0008
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	0.0001	0.0001
Eicosanes	332-343	0.0001	0.0002	0.0001
Heneicosanes	344-357	0.0001	0.0002	0.0001
Docosanes	358-369	0.0001	0.0002	0.0001
Triacosanes	370-380	0.0001	0.0003	0.0003
Tetracosanes	381-391	0.0001	0.0002	0.0002
Pentacosanes	392-402	0.0001	0.0002	0.0001
Hexacosanes	403-412	Trace	0.0001	0.0001
Heptacosanes	413-422	Trace	Trace	Trace
Octacosanes	423-432	Trace	Trace	Trace
Nonacosanes	433-441	Trace	0.0001	0.0001
triacontanes+	442-449+	0.0003	0.0011	0.0008
Totals		1.0000	1.0000	1.0000
neoHexane	50	0.0000	0.0000	0.0000
Methylcyclopentane	70	0.0242	0.0187	0.0176
Benzene	80	0.0017	0.0013	0.0010
Cyclohexane	81	0.0074	0.0057	0.0052
Methylcyclohexane	101	0.0230	0.0207	0.0190
Toluene	111	0.0095	0.0081	0.0066
Ethylbenzene	136	0.0074	0.0072	0.0059
m&p-Xylene	139	0.0185	0.0180	0.0147
o-Xylene	144	0.0067	0.0065	0.0052
1,2,4-Trimethylbenzene	169	0.0070	0.0079	0.0064

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

Results relate only to items tested

Remarks: