



C30+ COMPOSITIONAL ANALYSIS

KEARL LAKE

B429416:JI9944

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

KDB 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

23

Gas or Condensate Project

Licence No.

2014/08/07

2014/09/26

2014/09/26

SK1,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	0.0008	0.0004	0.0006
IC4	0.0066	0.0047	0.0055
NC4	0.0351	0.0248	0.0283
IC5	0.2583	0.2253	0.2411
NC5	0.2563	0.2240	0.2370
C6	0.1900	0.1985	0.1982
C7+	0.2529	0.3223	0.2893
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+		0.671		84	0.9575	0.9701	0.9656
C6+		0.713		97	0.4429	0.5208	0.4875
C7+	0.744		105	105	0.2529	0.3223	0.2893
C10+					0.0318	0.0571	0.0497
C12+					0.0010	0.0021	0.0017
TOTAL		0.668		82			

Calculated Absolute Density Total Sample: 667.4 kg/m3 @ 15°C
 Gas Equivalent Factor: 191.04 m3 Gas/m3 Liquid

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

Results relate only to items tested

Remarks:



CRUDE QUALITY INC. C30+ COMPOSITIONAL ANALYSIS

CRUDE QUALITY INC.

B429416:JI9944

Operator Name

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CRUDE QUALITY INC. MINI ASSAY

KDB NAPHTHA IBP - 190°C

Well Name

Sample Point

MAXXAM ANALYTICS

KEARL LAKE

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	0.0008	0.0004	0.0006
Iso-Butane	-12	0.0066	0.0047	0.0055
n-Butane	0	0.0351	0.0248	0.0283
Iso-Pentane	28	0.2583	0.2253	0.2411
n-Pentane	36	0.2563	0.2240	0.2370
Hexanes	37-69	0.1900	0.1985	0.1982
Heptanes	70-98	0.1332	0.1490	0.1368
Octanes	99-126	0.0662	0.0843	0.0749
Nonanes	127-151	0.0217	0.0319	0.0279
Decanes	152-174	0.0178	0.0302	0.0271
Undecanes	175-196	0.0130	0.0248	0.0209
Dodecanes	197-216	0.0010	0.0021	0.0017
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	0.0307	0.0315	0.0278
Benzene	80	0.0112	0.0107	0.0081
Cyclohexane	81	0.0238	0.0244	0.0208
Methylcyclohexane	101	0.0250	0.0300	0.0259
Toluene	111	0.0117	0.0132	0.0101
Ethylbenzene	136	0.0012	0.0016	0.0013
m&p-Xylene	139	0.0051	0.0066	0.0050
o-Xylene	144	0.0015	0.0020	0.0015
1,2,4-Trimethylbenzene	169	0.0020	0.0029	0.0022

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