C30+ COMPOSITIONAL ANALYSIS

MaxxID	Client ID	Meter Number	Laboratory Number
	MEDIUM SOUR BLEND		B497124:KY9898

Operator Name	LSD	Well ID
CRUDE QUALITY INC.		

Well Name	Initials of Sampler	Sampling Company
CRUDE QUALITY INC. MINI ASSAY		MAXXAM ANALYTICS

Field or Area	Pool or Zone	Sample Point	Container Identity	Percent Full
		MSB NAPHTHA IBP - 190°C	4L CAN	

Test Recovery	Sample Gathering Point	Solution Gas

Test Type	No.	Multiple Recovery	Interval From:	Interval To:	Elevations (m) KB	Elevations (m) GRD	Well Fluid Status	Well Status Mode

Production Rates Water m3/d	Production Rates Oil m3/d	Production Rates Gas 1000m3/d	Gauge Pressures kPa Source	Gauge Pressures kPa As Received	Temperature °C Source	Temperature °C As Received	Well Status Type	Well Type
					23			

Gas or Condensate Project	Licence No.

Date Sampled Start	Date Sampled End	Date Received	Date Reported	Date Reissued	Analyst
		2014/10/27	2014/11/24	2014/11/24	MS7,FA1

COMPOSITION

COMPONENT	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
N2			
CO2			
H2S			
C1	0.0000	0.0000	0.0000
C2	0.0012	0.0004	0.0007
C3	0.0188	0.0086	0.0119
IC4	0.0468	0.0281	0.0350
NC4	0.1176	0.0707	0.0851
IC5	0.0475	0.0354	0.0399
NC5	0.0658	0.0490	0.0546
C6	0.1059	0.0942	0.0991
C7+	0.5964	0.7136	0.6737
TOTAL	1.0000	1.0000	1.0000

PROPERTIES

RESIDUE	RELATIVE DENSITY @ 15 °C OBSERVED	RELATIVE DENSITY @ 15 °C CALCULATED	RELATIVE MOLECULAR MASS OBSERVED	RELATIVE MOLECULAR MASS CALCULATED	DATA SUMMARY MOLE FRACTION	DATA SUMMARY MASS FRACTION	DATA SUMMARY VOLUME FRACTION
C5+		0.724		106	0.8156	0.8922	0.8673
C6+		0.735		111	0.7023	0.8078	0.7728
C7+	0.745		116	116	0.5964	0.7136	0.6737
C10+					0.1461	0.2207	0.2038
C12+					0.0019	0.0036	0.0031
TOTAL		0.703		97			

Calculated Absolute Density Total Sample: 702.4 kg/m3 @ 15°C
Gas Equivalent Factor: 171.38 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. (Operator Name) | B497124:KY9898 (Laboratory Number)

CRUDE QUALITY INC. MINI ASSAY (Well Name) | MSB NAPHTHA IBP - 190°C (Sample Point)

MAXXAM ANALYTICS (Sampling Company) | (MaxxID) | MEDIUM SOUR BLEND (Client ID)

Date Sampled Start	Date Sampled End	Date Received	Date Reported	Date Reissued	Analyst
		2014/10/27	2014/11/24	2014/11/24	MS7,FA1

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	0.0012	0.0004	0.0007
Propane	-42	0.0188	0.0086	0.0119
Iso-Butane	-12	0.0468	0.0281	0.0350
n-Butane	0	0.1176	0.0707	0.0851
Iso-Pentane	28	0.0475	0.0354	0.0399
n-Pentane	36	0.0658	0.0490	0.0546
Hexanes	37-69	0.1059	0.0942	0.0991
Heptanes	70-98	0.1601	0.1547	0.1515
Octanes	99-126	0.1706	0.1885	0.1796
Nonanes	127-151	0.1196	0.1497	0.1388
Decanes	152-174	0.0947	0.1373	0.1300
Undecanes	175-196	0.0495	0.0798	0.0707
Dodecanes	197-216	0.0019	0.0035	0.0030
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	0.0001	0.0001
Totals		1.0000	1.0000	1.0000
neoHexane	50	0.0000	0.0000	0.0000
Methylcyclopentane	70	0.0253	0.0220	0.0205
Benzene	80	0.0129	0.0104	0.0083
Cyclohexane	81	0.0225	0.0195	0.0175
Methylcyclohexane	101	0.0401	0.0406	0.0370
Toluene	111	0.0265	0.0252	0.0204
Ethylbenzene	136	0.0090	0.0099	0.0080
m&p-Xylene	139	0.0216	0.0237	0.0191
o-Xylene	144	0.0080	0.0088	0.0070
1,2,4-Trimethylbenzene	169	0.0089	0.0114	0.0091

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Remarks: