C30+ COMPOSITIONAL ANALYSIS

MaxxID	Client ID	Meter Number	Laboratory Number
	ACCESS WESTERN BLEND		B539163:MF6838

Operator Name	LSD	Well ID
CRUDE QUALITY INC.		

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

Field or Area	Pool or Zone	Sample Point	Container Identity	Percent Full
		AWB 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
		2015/05/13	2015/06/29	2015/06/29	FA1

COMPOSITION

COMPONENT	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
N2			
CO2			
H2S			
C1	0.0000	0.0000	0.0000
C2	Trace	Trace	Trace
C3	0.0037	0.0018	0.0025
IC4	0.0060	0.0040	0.0048
NC4	0.0328	0.0218	0.0255
IC5	0.2314	0.1915	0.2085
NC5	0.2174	0.1799	0.1940
C6	0.1775	0.1754	0.1785
C7+	0.3312	0.4256	0.3862
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+		0.684		89	0.9575	0.9724	0.9672
C6+		0.724		103	0.5087	0.6010	0.5647
C7+	0.750		112	112	0.3312	0.4256	0.3862
C10+					0.0504	0.1003	0.0860
C12+					0.0090	0.0311	0.0241
TOTAL		0.681		87			

Calculated Absolute Density Total Sample: 680.4 kg/m3 @ 15°C
Gas Equivalent Factor: 184.25 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. — *Operator Name*

B539163:MF6838 — *Laboratory Number*

CRUDE QUALITY INC. MINI ASSAY — *Well Name*

AWB NAPHTHA IBP - 190°C — *Sample Point*

MAXXAM ANALYTICS — *Sampling Company*

MaxxID

ACCESS WESTERN BLEND — *Client ID*

Date Sampled Start	Date Sampled End	Date Received	Date Reported	Date Reissued	Analyst
		2015/05/13	2015/06/29	2015/06/29	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	Trace	Trace	Trace
Propane	-42	0.0037	0.0018	0.0025
Iso-Butane	-12	0.0060	0.0040	0.0048
n-Butane	0	0.0328	0.0218	0.0255
Iso-Pentane	28	0.2314	0.1915	0.2085
n-Pentane	36	0.2174	0.1799	0.1940
Hexanes	37-69	0.1775	0.1754	0.1785
Heptanes	70-98	0.1417	0.1504	0.1416
Octanes	99-126	0.1006	0.1216	0.1108
Nonanes	127-151	0.0385	0.0533	0.0478
Decanes	152-174	0.0268	0.0432	0.0396
Undecanes	175-196	0.0146	0.0260	0.0223
Dodecanes	197-216	0.0016	0.0030	0.0026
Triadecanes	217-236	Trace	Trace	Trace
Tetradecanes	237-253	Trace	Trace	Trace
Pentadecanes	254-271	0.0001	0.0002	0.0002
Hexadecanes	272-287	0.0003	0.0006	0.0005
Heptadecanes	288-302	0.0005	0.0015	0.0012
Octadecanes	303-317	0.0005	0.0015	0.0012
NonaDecanes	318-331	0.0004	0.0013	0.0011
Eicosanes	332-343	0.0004	0.0015	0.0012
Heneicosanes	344-357	0.0005	0.0016	0.0012
Docosanes	358-369	0.0003	0.0013	0.0010
Triacosanes	370-380	0.0003	0.0012	0.0009
Tetracosanes	381-391	0.0003	0.0011	0.0009
Pentacosanes	392-402	0.0003	0.0010	0.0008
Hexacosanes	403-412	0.0003	0.0010	0.0007
Heptacosanes	413-422	0.0002	0.0008	0.0006
Octacosanes	423-432	0.0002	0.0008	0.0006
Nonacosanes	433-441	0.0002	0.0007	0.0005
Triacontanes+	442-449+	0.0026	0.0120	0.0089
Totals		1.0000	1.0000	1.0000
neoHexane	50	0.0000	0.0000	0.0000
Methylcyclopentane	70	0.0279	0.0269	0.0242
Benzene	80	0.0111	0.0099	0.0076
Cyclohexane	81	0.0235	0.0226	0.0196
Methylcyclohexane	101	0.0338	0.0381	0.0335
Toluene	111	0.0162	0.0172	0.0134
Ethylbenzene	136	0.0012	0.0014	0.0011
m&p-Xylene	139	0.0090	0.0109	0.0085
o-Xylene	144	0.0025	0.0031	0.0024
1,2,4-Trimethylbenzene	169	0.0025	0.0035	0.0027

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

Results relate only to items tested

Remarks: