Lampiran 1. Data hasil peneltitian pembentukan hidrat

t	2 bar			3 bar			4 Bar		
	T	**P**	**Hidrat**	**T**	**P**	**Hidrat**	**T**	**P**	**Hidrat**
Menit	(K)	(Bar)	(Mol)	(K)	(Bar)	(Mol)	(K)	(Bar)	(Mol)
0	301	2,040	0	301	3,030	0	301	4,030	0
15	277	1,740	0,005451	277	2,630	0,007078	276	3,500	0,009191
30	274	1,740	0,005497	276	2,600	0,007635	275	3,480	0,009566
45	274	1,730	0,005682	275	2,580	0,008016	274	3,470	0,009766
60	274	1,730	0,005682	275	2,570	0,008196	274	3,470	0,009766
90	274	1,720	0,005867	275	2,570	0,008196	274	3,460	0,009943
120	274	1,720	0,005867	275	2,570	0,008196	274	3,460	0,009943
150	274	1,710	0,006053	275	2,560	0,008377	274	3,460	0,009943
180	274	1,710	0,006053	275	2,560	0,008377	274	3,460	0,009943
210	275	1,710	0,006036	275	2,560	0,008377	274	3,460	0,009943
240	274	1,710	0,006053	275	2,560	0,008377	274	3,460	0,009943
270	274	1,710	0,006053	275	2,560	0,008377	274	3,450	0,01012
300	274	1,710	0,006053	275	2,550	0,008558	274	3,450	0,01012
330	274	1,700	0,006238	275	2,550	0,008558	274	3,450	0,01012
360	274	1,700	0,006238	274	2,550	0,00858	274	3,450	0,01012
390	274	1,700	0,006238	273	2,540	0,00858	274	3,450	0,01012
420	275	1,690	0,006406	273	2,540	0,00858	274	3,450	0,01012
450	274	1,690	0,006424	273	2,540	0,00858	274	3,450	0,01012
480	274	1,690	0,006424	273	2,540	0,00858	274	3,450	0,01012
510	274	1,690	0,006424	273	2,530	0,00858	274	3,450	0,01012
540	274	1,690	0,006424	273	2,530	0,008761	273	3,440	0,010297
570	274	1,680	0,006609	273	2,530	0,008761	273	3,440	0,010297
600	274	1,680	0,006609	273	2,530	0,008784	273	3,440	0,010297

Lampiran 2. Data hasil penelitian stabilitas hidrat

t	2 bar			3 bar			4 Bar		
	T	**P**	**Penguraian**	**T**	**P**	**Penguraian**	**T**	**P**	**Penguraian**
Menit	(K)	(Bar)	(Mol)	(K)	(Bar)	(Mol)	(K)	(Bar)	(Mol)
0	274	0,000	0,00000	273	0,000	0,00000	273	0,000	0,00000
30	269	0,010	0,00000	270	0,010	0,00000	271	0,000	0,00000
60	269	0,020	0,00016	270	0,010	0,00008	270	0,01	0,00000
90	269	0,040	0,00032	269	0,030	0,00024	269	0,02	0,00014
120	269	0,040	0,00032	269	0,040	0,00032	269	0,03	0,00021
150	269	0,050	0,00040	269	0,040	0,00032	269	0,04	0,00028
180	269	0,050	0,00040	269	0,040	0,00032	269	0,04	0,00028
210	268	0,050	0,00040	269	0,040	0,00032	269	0,04	0,00028
240	268	0,050	0,00040	269	0,040	0,00032	269	0,04	0,00028
270	269	0,060	0,00048	269	0,050	0,00040	269	0,04	0,00028
300	269	0,060	0,00048	269	0,050	0,00040	268	0,04	0,00032

Lampiran 3. Data penelitian kapasitas penyimpanan hidrat

Variasi Tekanan	Temperatur ruangan	Tekanan akhir	Kapasitas Penyimpanan
	(K)	(Bar)	(V/V)
2 bar	300	0,090	0,099236641
3 bar	300	0,100	0,118057384
4 bar	300	0,120	0,140563306

Lampiran 4. Komposisi *Liquefied Petroleum Gas* (LPG)

PT. PERTAMINA LUBRICANTS

PERTAMINA LUBRICANTS

LABORATORIUM PRODUCTION UNIT GRESIK
Jalan Harun Tohir Desa Pulau Pancikan Gresik - 61113
Phone 031-3293892, Fax. 031-3294965, Email : labplm@pertamina.com

ASLI

CERTIFICATE OF ANALYSIS

Type of Sample	: LPG MIX	COA No	: 0193/PL2203/COA-G/2014
Customer	: LPG & Gas Products Region V	Date of COA	: 04.02.2014
Ex. Strorage Location	: Tanki Timbun III A (MT/LPG C NAVIGATOR GLOBAL)	Sample Drawned by	: -
Sample No.	: -	Sample Drawned	: -
Sample Delivery No	: 08/F15451/TD-B/02/2014.	Received Date	: 03.02.2014
Sample Delivery Date	: 29.01.2014	Type Test	: -

NO	TEST	UNIT	METHOD	LIMIT	RESULT
1	Specific Gravity at 60 / 60 °F	-	ASTM D 1657	Reported	-
2	Vapor Pressure at 100 °F	psig	ASTM D 1267	Max. 145	106
3	Copper Corrosion 1 hr / 100 °F	-	ASTM D 1838	ASTM No. 1	ASTM No.1
4	Composition :		ASTM D 2163 Gas Chromatography		
	C2	% Vol		Max. 0.8	0,11
	C3			-	49,57
	C4			-	50,11
	C5	% Vol		Max. 2.0	0,21
5.	Molekul Weight (in Liquid)	-	-	-	50,17

Note : This report relates only to the sample tested and does not quarantee the bulk of material to be of equality.

*) Sesuai dengan Spesifikasi Dirjen Migas No. 22394.K/10/DJM.T/2009, tanggal 11 Nopember 2009

Surabaya, 04 April 2013
Junior Analyst QC. Lab. Prod. Unit Gresik

M. DJOKO TP.

Distribusi :
To : LPG & Gas Products Region V
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