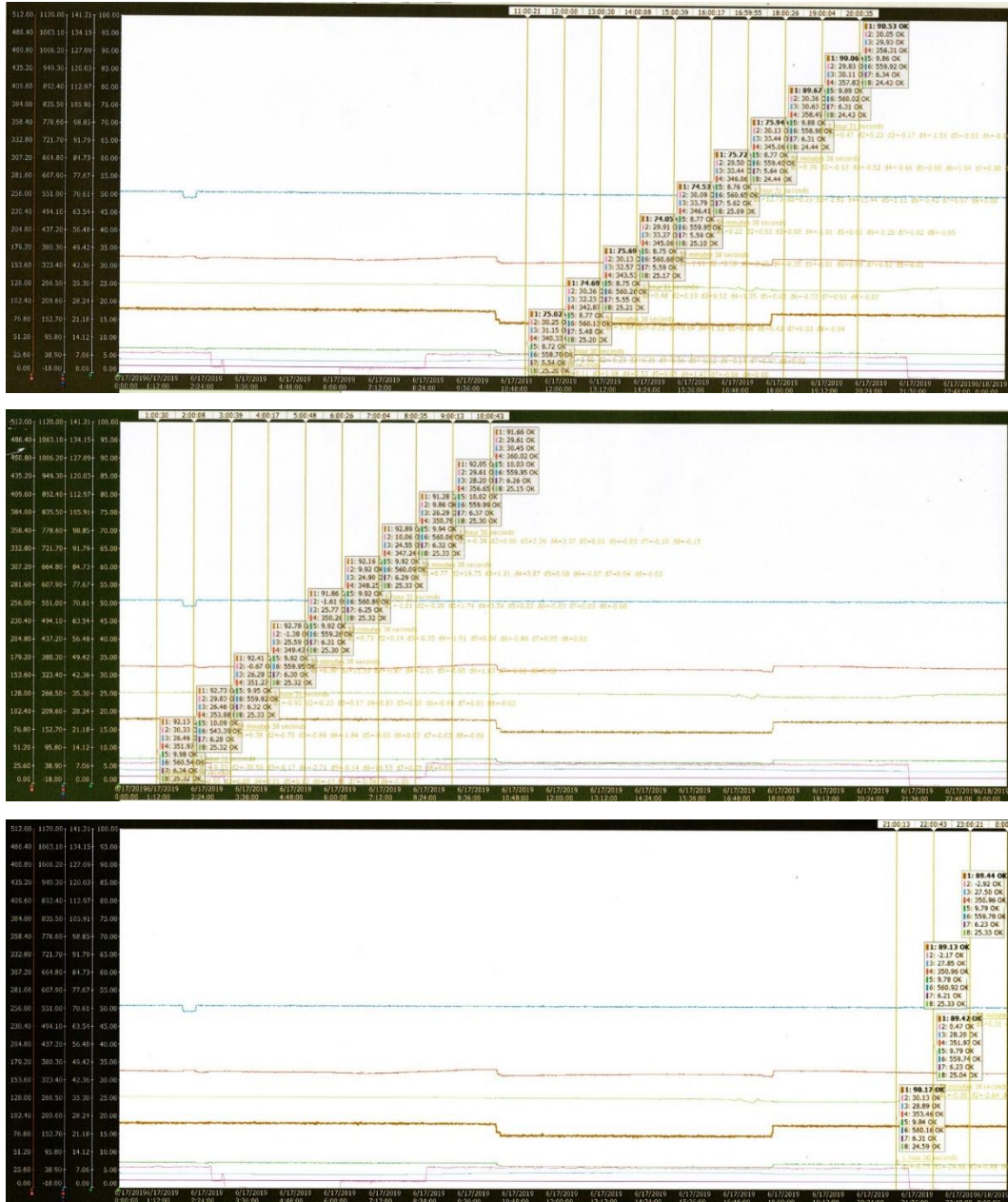
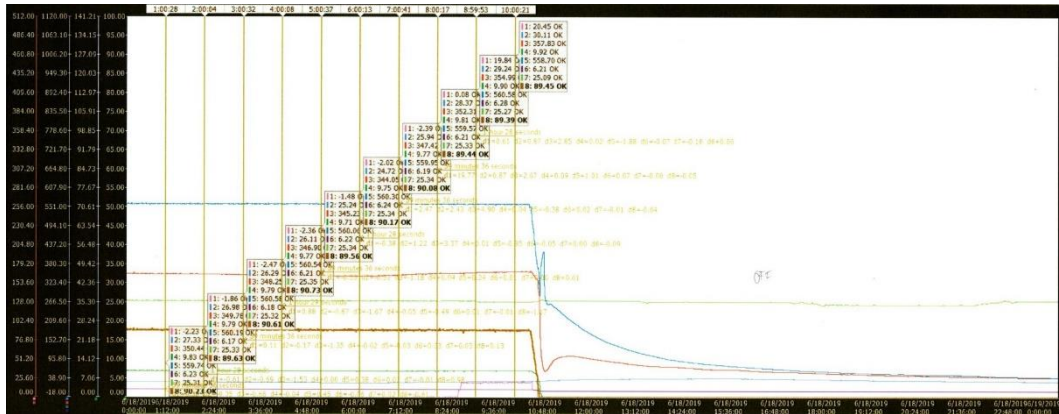


LAMPIRAN

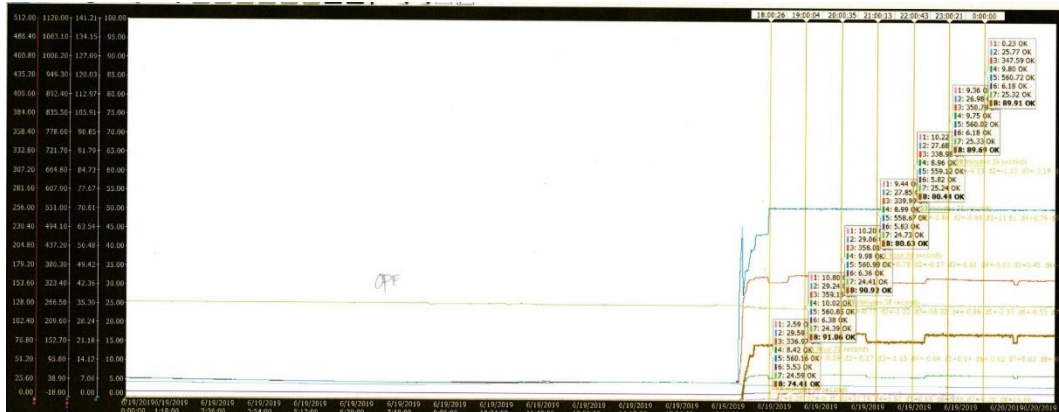
Lampiran 1 Data operasi tanggal 17 Juni 2018



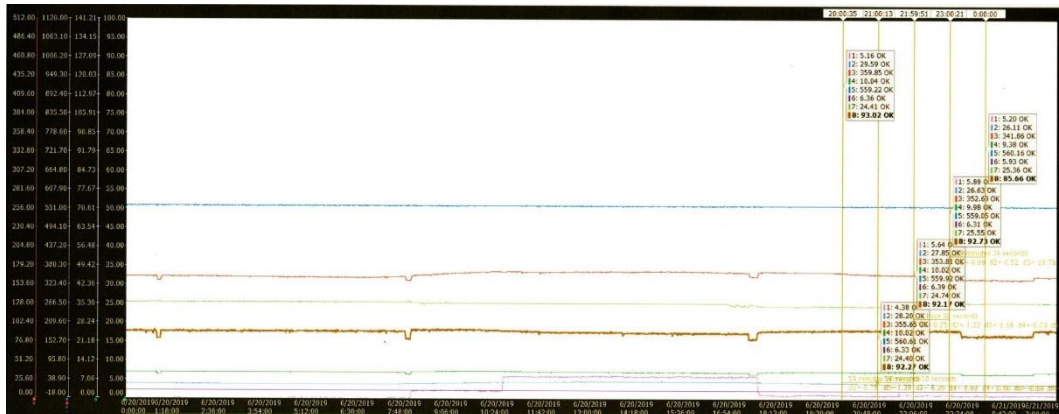
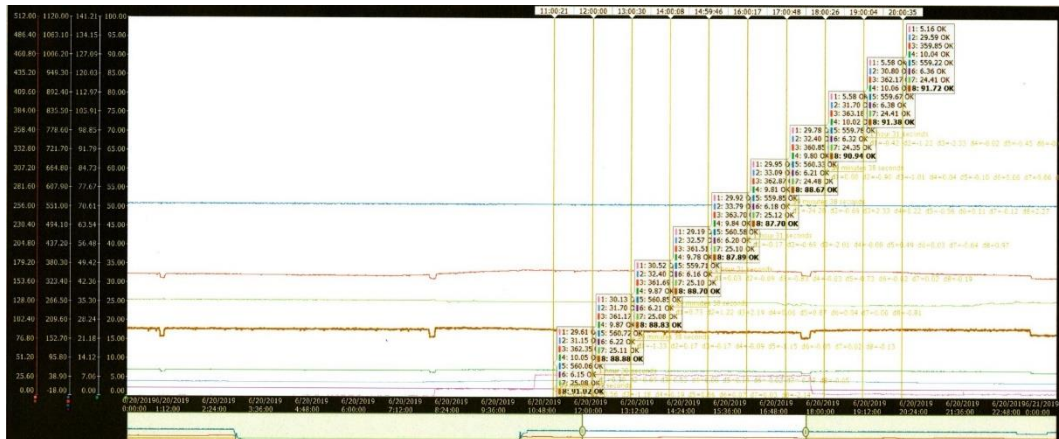
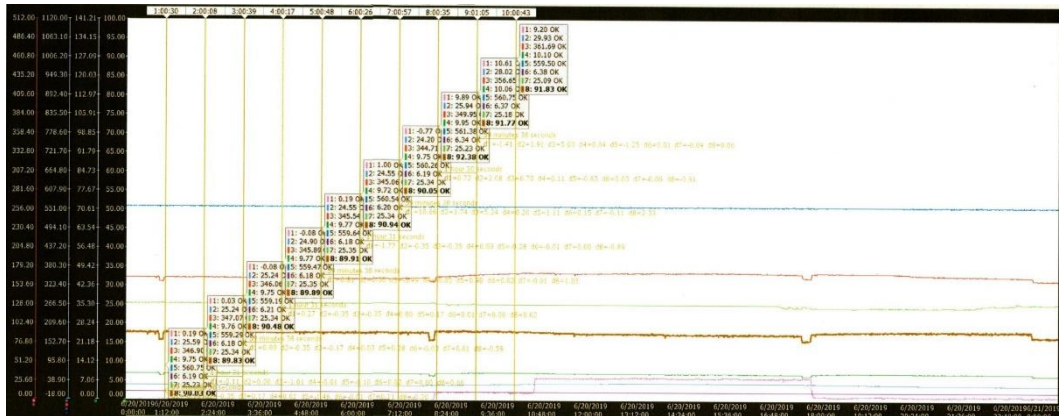
Lampiran 2 Data operasi tanggal 18 Juni 2018



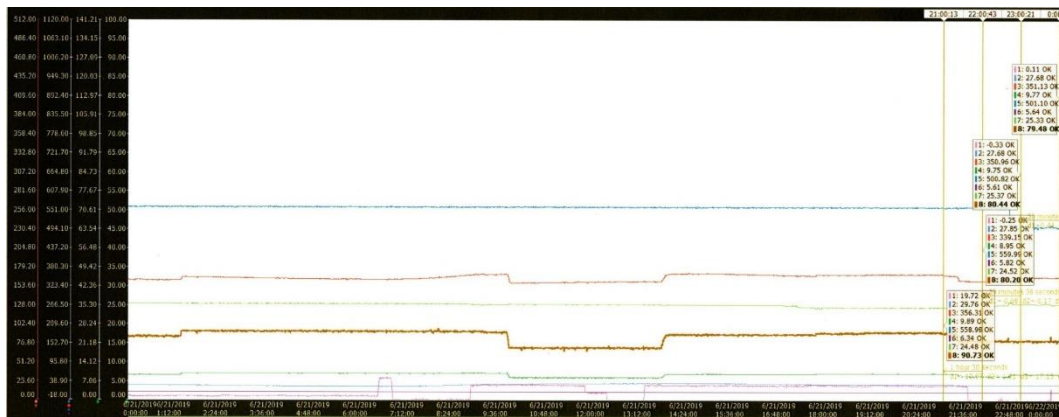
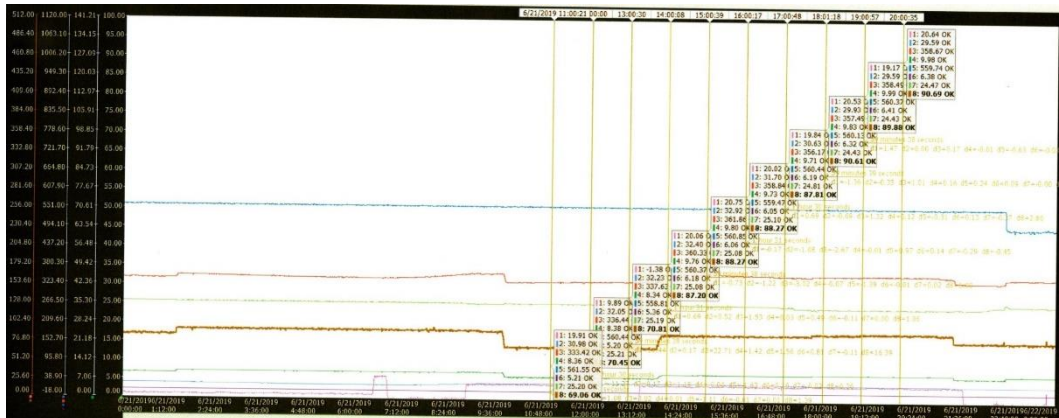
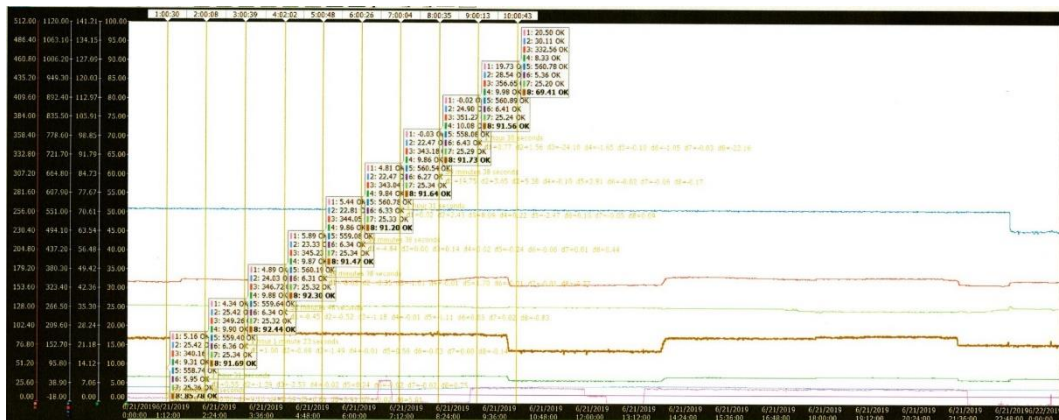
Lampiran 3 Data operasi tanggal 19 Juni 2018



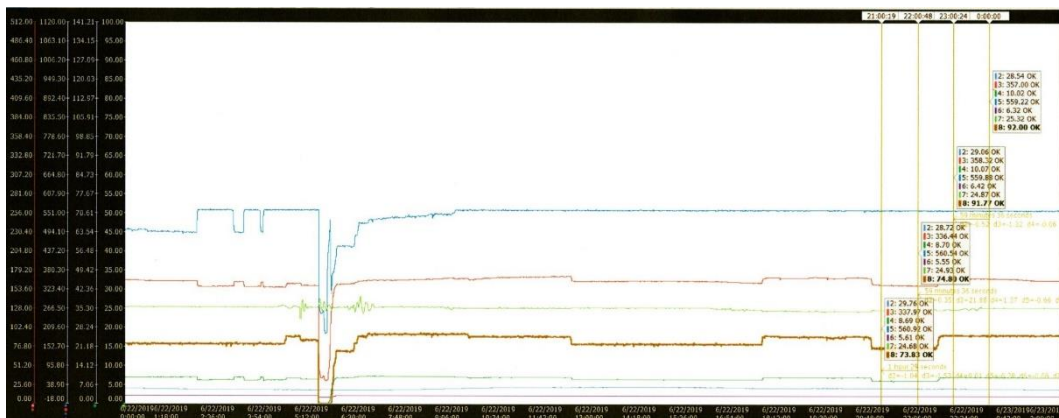
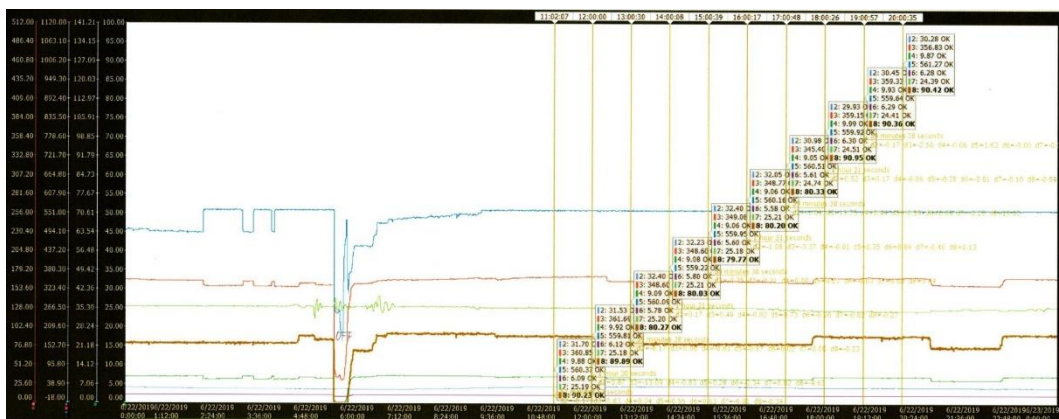
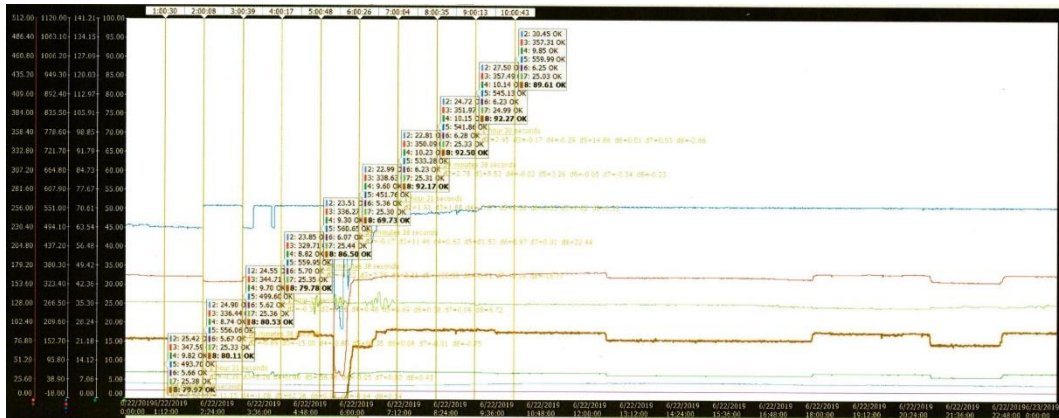
Lampiran 4 Data operasi tanggal 20 Juni 2018



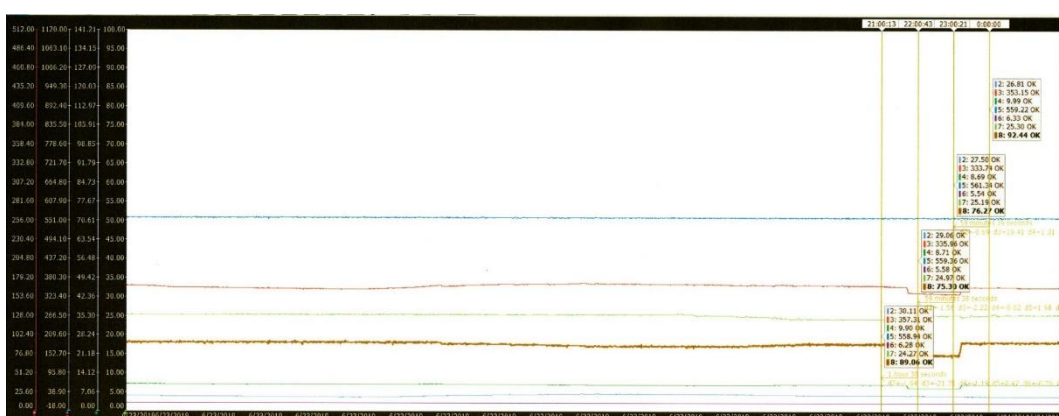
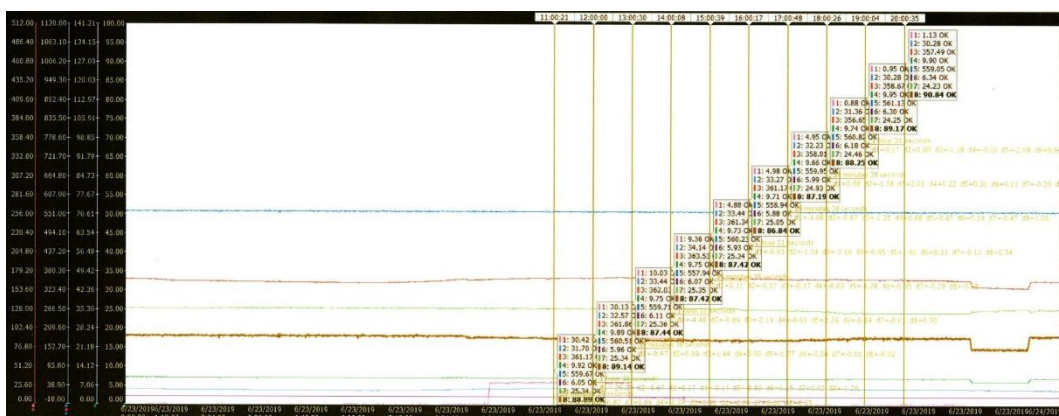
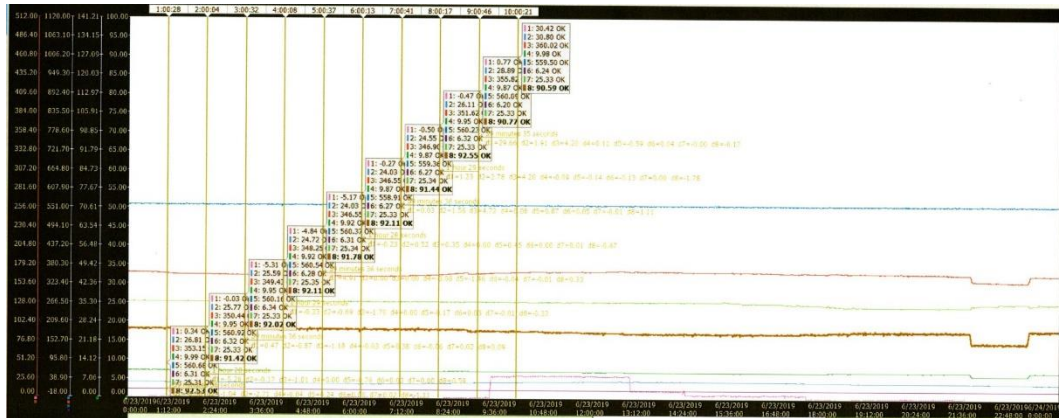
Lampiran 5 Data operasi tanggal 21 Juni 2018



Lampiran 6 Data operasi tanggal 22 Juni 2018



Lampiran 7 Data operasi tanggal 23 Juni 2018



Lampiran 8 Data bahan bakar tanggal 17 Juni 2019

```

*****
*                               DAILY REPORT                               *
*                               PT. KALIMANTAN JAWA GAS                       *
*                               TAMBAK LDROK                                 *
*****

```

```

Period start 17/06/2019 00:00:00
Period end   18/06/2019 00:00:00
System       USM METERING SYSTEM      Flow computer FLOW COMP A
Description  USM 16 INCH

```

Meter / station ID		FT-A	FT-B	STATION
Daily Base volume	MSCF	0.0000	25860.2483	25860.2483
Daily Energy	MMBTU	0.0000	25913.8606	25913.8606

Base density	lb/SCF	0.000000	0.043210	0.043210
--------------	--------	----------	----------	----------

PT. Sumber Petrindo Perkasa
Tambak Lorok - Central Java

Daily Report
Date : 19/06/19

Computer ID : FCA
Time : 00:00:00


Meter ID		FT301	FT302	STATION
Product ID		GC	GC	

FISCAL:

Daily Net	MSCF	50335.7	.0	50335.7
Daily Energy	MMBTU	54920.4	.0	54920.4

PROPERTIES :

Base Density	Lb/Ft3	.046644	.000000
--------------	--------	---------	---------


Heri H.

Lampiran 9 Data bahan bakar tanggal 18 Juni 2019

```

*****
*                               DAILY REPORT                               *
*                               PT. KALIMANTAN JAWA GAS                     *
*                               TAMBAK LOROK                               *
*****

Period start 18/06/2019 00:00:00
Period end   19/06/2019 00:00:00
System       USM METERING SYSTEM           Flow computer FLOW COMP A
Description  USM 16 INCH

Meter / station ID          FT-A          FT-B          STATION

Daily Base volume          MSCF          0.0000          25484.1090          25484.1090
Daily Energy                MMBTU          0.0000          25536.8770          25536.8770

Base density                lb/SCF          0.000000          0.043209          0.043209
    
```

```

PT. Sumber Petrindo Perkasa
Tambak Lorok - Central Java

Daily Report
Date : 19/06/19
Computer ID : FCA
Time : 00:00:00

Meter ID          FT301          FT302          STATION
Product ID        GC            GC

FISCAL:
Daily Net         MSCF          50335.7          .0          50335.7
Daily Energy      MMBTU          54920.4          .0          54920.4

PROPERTIES :
Base Density      Lb/Ft3          .046644          .000000
    
```

H.
Heri H.

Lampiran 10 Data bahan bakar tanggal 19 Juni 2019

```

*****
*                                     *
*                               DAILY REPORT                               *
*                               PT. KALIMANTAN JAWA GAS                   *
*                               TAMBAK LOROK                             *
*                                     *
*****

```

```

Period start 19/06/2019 00:00:00
Period end   20/06/2019 00:00:00
System       USM METERING SYSTEM           Flow computer  FLGW COMP A
Description  USM 16 INCH

```

Meter / station ID		FT-A	FT-B	STATION
Daily Base volume	MSCF	0.0000	24774.1131	24774.1131
Daily Energy	MMBTU	0.0000	24827.2548	24827.2548

Base density	lb/SCF	0.000000	0.043201	0.043201
--------------	--------	----------	----------	----------

PT. Sumber Petrindo Perkasa
Tambak Lorok - Central Java

Daily Report		Computer ID : FCA		
Date : 20/06/19		Time : 00:00:00		
Meter ID		FT301	FT302	STATION
Product ID		GC	GC	
FISCAL:				
Daily Net	MSCF	50270.7	.0	50270.7
Daily Energy	MMBTU	54849.2	.0	54849.2

PROPERTIES :

Base Density	Lb/Ft3	.046646	.000000
--------------	--------	---------	---------


Hani H

Lampiran 11 Data bahan bakar tanggal 20 Juni 2019

```

*****
*                               DAILY REPORT                               *
*                               PT. KALIMANTAN JAWA GAS                     *
*                               TAMBAK LOROK                               *
*****
  
```

```

Period start 20/06/2019 00:00:00
Period end   21/06/2019 00:00:00
System       USM METERING SYSTEM
Description   USM 16 INCH
Flow computer FLOW COMP A
  
```

Meter / station ID		FT-A	FT-B	STATION
Daily Base volume	MSCF	0.0000	25814.9035	25814.9035
Daily Energy	MMBTU	0.0000	25866.6547	25866.6547

```

Base density      1b/SCF      0.000000      0.043210      0.043210
  
```

PT. Sumber Petriding Perkasa
Tambak Lorok - Central Java

```

Daily Report      Computer ID : FCA
Date : 21/06/19  Time : 00:00:00
  
```

Meter ID	Product ID	FT301 GC	FT302 GC	STATION
FISCAL:				
Daily Net	MSCF	50349.8	.0	50349.8
Daily Energy	MMBTU	54943.8	.0	54943.8

PROPERTIES :

```

Base Density      Lb/Ft3      .046653      .000000
  
```

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21
Deni

Lampiran 12 Data bahan bakar tanggal 21 Juni 2019

```

*****
*                               DAILY REPORT                               *
*                               PT. KALIMANTAN JAWA GAS                     *
*                               TAMBAK LOROK                               *
*****

```

```

Period start 21/06/2019 00:00:00
Period end   22/06/2019 00:00:00
System       USM METERING SYSTEM
Description  USM 16 INCH
Flow computer FLOW COMP A

```

Meter / station ID		FT-A	FT-B	STATION
Daily Base volume	MSCF	0.0000	24890.6650	24890.6650
Daily Energy	MMBTU	0.0000	24940.9474	24940.9474

Base density	lb/SCF	0.000000	0.043209	0.043209
--------------	--------	----------	----------	----------

PT. Sumber Petrindo Perkasa
Tambak Lorok - Central Java

Daily Report Computer ID : FCA
Date : 22/06/19 Time : 00:00:00

Meter ID		FT301	FT302	STATION
Product ID		GC	GC	

FISCAL:

Daily Net	MSCF	50396.9	.0	50396.9
Daily Energy	MMBTU	55005.5	.0	55005.5

PROPERTIES :

Base Density	Lb/Ft3	.046665	.000000
--------------	--------	---------	---------

*Juni
Deni*

Lampiran 13 Data bahan bakar tanggal 22 Juni 2019

```

*****
*                                     *
*                               DAILY REPORT                               *
*                               PT. KALIMANTAN JAWA GAS                     *
*                               TAMBAK LOROK                               *
*                                     *
*****
    
```

```

Period start 22/06/2019 00:00:00
Period end   23/06/2019 00:00:00
System       USM METERING SYSTEM
Description  USM 16 INCH
Flow computer FLOW COMP A
    
```

Meter / station ID		FT-A	FT-B	STATION
Daily Base volume	MSCF	0.0000	25144.0910	25144.0910
Daily Energy	MMBTU	0.0000	25194.8448	25194.8448

```

Base density      lb/SCF      0.000000      0.043209      0.043209
    
```

PT. Sumber Petrindo Perkasa
Tambak Lorok - Central Java

```

Daily Report      Computer ID : FCA
Date : 23/06/19  Time : 00:00:00
    
```

Meter ID		FT301	FT302	STATION
Product ID		GC	GC	

FISCAL:

Daily Net	MSCF	50831.2	.0	50831.2
Daily Energy	MMBTU	55468.6	.0	55468.6

PROPERTIES :

```

Base Density      Lb/Ft3      .046657      .000000
    
```

Juni
Deni

Lampiran 14 Data bahan bakar tanggal 23 Juni 2019

* DAILY REPORT *
* PT. KALIMANTAN JAWA GAS *
* TAMBAK LOROK *

Period start 23/06/2019 00:00:00
Period end 24/06/2019 00:00:00
System USH METERING SYSTEM Flow computer FLOW COMP A
Description USM 16 INCH

Meter / station ID		FT-A	FT-B	STATION
Daily Base volume	MSCF	0.0000	25998.6845	25998.6845
Daily Energy	MMBTU	0.0000	26052.6326	26052.6326

Base density lb/SCF 0.000000 0.043209 0.043209

PT. Sumber Petrindo Perkasa
Tambak Lorok - Central Java

Daily Report Computer ID : FCA
Date : 24/06/19 Time : 00:00:00

Meter ID	FT301	FT302	STATION
Product ID	GC	GC	

FISCAL:

Daily Net	MSCF	50432.0	.0	50432.0
Daily Energy	MMBTU	55063.2	.0	55063.2

PROPERTIES :

Base Density Lb/Ft3 .046684 .000000

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Deni

Lampiran 15 tabel gas ideal (1)

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910 | Thermodynamics

TABLE A17

Ideal-gas properties of air

T K	h kJ/kg	P_r	u kJ/kg	v_r	s kJ/kg K	T K	h kJ/kg	P_r	u kJ/kg	v_r	s kJ/kg K
200	199.97	0.3363	142.56	1707.0	1.29559	580	586.04	14.38	419.55	115.7	2.37348
210	209.97	0.3987	149.69	1512.0	1.34444	590	596.52	15.31	427.15	110.6	2.39140
220	219.97	0.4690	156.82	1346.0	1.39105	600	607.02	16.28	434.78	105.8	2.40902
230	230.02	0.5477	164.00	1205.0	1.43557	610	617.53	17.30	442.42	101.2	2.42644
240	240.02	0.6355	171.13	1084.0	1.47824	620	628.07	18.36	450.09	96.92	2.44356
250	250.05	0.7329	178.28	979.0	1.51917	630	638.63	19.84	457.78	92.84	2.46048
260	260.09	0.8405	185.45	887.8	1.55848	640	649.22	20.64	465.50	88.99	2.47716
270	270.11	0.9590	192.60	808.0	1.59634	650	659.84	21.86	473.25	85.34	2.49364
280	280.13	1.0889	199.75	738.0	1.63279	660	670.47	23.13	481.01	81.89	2.50985
285	285.14	1.1584	203.33	706.1	1.65055	670	681.14	24.46	488.81	78.61	2.52589
290	290.16	1.2311	206.91	676.1	1.66802	680	691.82	25.85	496.62	75.50	2.54175
295	295.17	1.3068	210.49	647.9	1.68515	690	702.52	27.29	504.45	72.56	2.55731
298	298.18	1.3543	212.64	631.9	1.69528	700	713.27	28.80	512.33	69.76	2.57277
300	300.19	1.3860	214.07	621.2	1.70203	710	724.04	30.38	520.23	67.07	2.58810
305	305.22	1.4686	217.67	596.0	1.71865	720	734.82	32.02	528.14	64.53	2.60319
310	310.24	1.5546	221.25	572.3	1.73498	730	745.62	33.72	536.07	62.13	2.61803
315	315.27	1.6442	224.85	549.8	1.75106	740	756.44	35.50	544.02	59.82	2.63280
320	320.29	1.7375	228.42	528.6	1.76690	750	767.29	37.35	551.99	57.63	2.64737
325	325.31	1.8345	232.02	508.4	1.78249	760	778.18	39.27	560.01	55.54	2.66176
330	330.34	1.9352	235.61	489.4	1.79783	780	800.03	43.35	576.12	51.64	2.69013
340	340.42	2.149	242.82	454.1	1.82790	800	821.95	47.75	592.30	48.08	2.71787
350	350.49	2.379	250.02	422.2	1.85708	820	843.98	52.59	608.59	44.84	2.74504
360	360.58	2.626	257.24	393.4	1.88543	840	866.08	57.60	624.95	41.85	2.77170
370	370.67	2.892	264.46	367.2	1.91313	860	888.27	63.09	641.40	39.12	2.79783
380	380.77	3.176	271.69	343.4	1.94001	880	910.56	68.98	657.95	36.61	2.82344
390	390.88	3.481	278.93	321.5	1.96633	900	932.93	75.29	674.58	34.31	2.84856
400	400.98	3.806	286.16	301.6	1.99194	920	955.38	82.05	691.28	32.18	2.87324
410	411.12	4.153	293.43	283.3	2.01699	940	977.92	89.28	708.08	30.22	2.89748
420	421.26	4.522	300.69	266.6	2.04142	960	1000.55	97.00	725.02	28.40	2.92128
430	431.43	4.915	307.99	251.1	2.06533	980	1023.25	105.2	741.98	26.73	2.94468
440	441.61	5.332	315.30	236.8	2.08870	1000	1046.04	114.0	758.94	25.17	2.96770
450	451.80	5.775	322.62	223.6	2.11161	1020	1068.89	123.4	776.10	23.72	2.99034
460	462.02	6.245	329.97	211.4	2.13407	1040	1091.85	133.3	793.36	23.29	3.01260
470	472.24	6.742	337.32	200.1	2.15604	1060	1114.86	143.9	810.62	21.14	3.03449
480	482.49	7.268	344.70	189.5	2.17760	1080	1137.89	155.2	827.88	19.98	3.05608
490	492.74	7.824	352.08	179.7	2.19876	1100	1161.07	167.1	845.33	18.896	3.07732
500	503.02	8.411	359.49	170.6	2.21952	1120	1184.28	179.7	862.79	17.886	3.09825
510	513.32	9.031	366.92	162.1	2.23993	1140	1207.57	193.1	880.35	16.946	3.11883
520	523.63	9.684	374.36	154.1	2.25997	1160	1230.92	207.2	897.91	16.064	3.13916
530	533.98	10.37	381.84	146.7	2.27967	1180	1254.34	222.2	915.57	15.241	3.15916
540	544.35	11.10	389.34	139.7	2.29906	1200	1277.79	238.0	933.33	14.470	3.17888
550	555.74	11.86	396.86	133.1	2.31809	1220	1301.31	254.7	951.09	13.747	3.19834
560	565.17	12.66	404.42	127.0	2.33685	1240	1324.93	272.3	968.95	13.069	3.21751
570	575.59	13.50	411.97	121.2	2.35531						

Lampiran 16 tabel gas ideal (2)

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Appendix 1 | 911

TABLE A17

Ideal-gas properties of air (Concluded)

T K	h kJ/kg	P_r	u kJ/kg	v_r	s kJ/kg K	T K	h kJ/kg	P_r	u kJ/kg	v_r	s kJ/kg K
1260	1348.55	290.8	986.90	12.435	3.23638	1600	1757.57	791.2	1298.30	5.804	3.52364
1280	1372.24	310.4	1004.76	11.835	3.25510	1620	1782.00	834.1	1316.96	5.574	3.53879
1300	1395.97	330.9	1022.82	11.275	3.27345	1640	1806.46	878.9	1335.72	5.355	3.55381
1320	1419.76	352.5	1040.88	10.747	3.29160	1660	1830.96	925.6	1354.48	5.147	3.56867
1340	1443.60	375.3	1058.94	10.247	3.30959	1680	1855.50	974.2	1373.24	4.949	3.58335
1360	1467.49	399.1	1077.10	9.780	3.32724	1700	1880.1	1025	1392.7	4.761	3.5979
1380	1491.44	424.2	1095.26	9.337	3.34474	1750	1941.6	1161	1439.8	4.328	3.6336
1400	1515.42	450.5	1113.52	8.919	3.36200	1800	2003.3	1310	1487.2	3.994	3.6684
1420	1539.44	478.0	1131.77	8.526	3.37901	1850	2065.3	1475	1534.9	3.601	3.7023
1440	1563.51	506.9	1150.13	8.153	3.39586	1900	2127.4	1655	1582.6	3.295	3.7354
1460	1587.63	537.1	1168.49	7.801	3.41247	1950	2189.7	1852	1630.6	3.022	3.7677
1480	1611.79	568.8	1186.95	7.468	3.42892	2000	2252.1	2068	1678.7	2.776	3.7994
1500	1635.97	601.9	1205.41	7.152	3.44516	2050	2314.6	2303	1726.8	2.555	3.8303
1520	1660.23	636.5	1223.87	6.854	3.46120	2100	2377.7	2559	1775.3	2.356	3.8605
1540	1684.51	672.8	1242.43	6.569	3.47712	2150	2440.3	2837	1823.8	2.175	3.8901
1560	1708.82	710.5	1260.99	6.301	3.49276	2200	2503.2	3138	1872.4	2.012	3.9191
1580	1733.17	750.0	1279.65	6.046	3.50829	2250	2566.4	3464	1921.3	1.864	3.9474

Note: The properties P_r (relative pressure) and v_r (relative specific volume) are dimensionless quantities used in the analysis of isentropic processes, and should not be confused with the properties pressure and specific volume.

Source: Kenneth Wark, *Thermodynamics*, 4th ed. (New York: McGraw-Hill, 1983), pp. 78586, table A5. Originally published in J. H. Keenan and J. Kaye, *Gas Tables* (New York: John Wiley & Sons, 1948).

Lampiran 17 Barometer



Lampiran 18 spesifikasi GTG 2.2

OPERATING AND CONSTRUCTION DATA	
1. GENERAL	
1.1 Model	: GE / MS 900 1E
1.2 Number of Unit	: 3 per Block
2.1	
2.2	
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2.97	
2.98	
2.99	
2.100	
3.6 Exhaust gas temperature.....(°C)	: 550.8
3.7 Exhaust pressure.....(mbar gauge)	: 1.045