



**Gambar 1.1 Lokasi pengambilan kotoran sapi**



**Gambar 1.2 Lokasi pengambilan kulit nanas**



**Gambar 1.3 Lokasi pengambilan air karet**



**Gambar 1.4 Kulit nanas sebelum pencacahan**



**Gambar 1.5 Kulit nanas setelah pencacahan**



**Gambar 1.6 Bahan isian biogas setelah pencampuran**



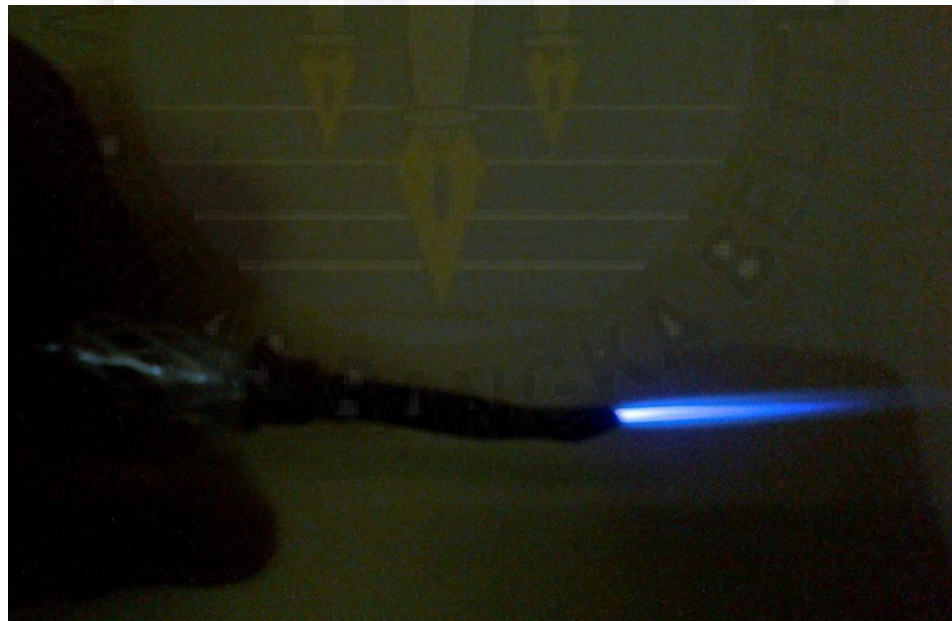
**Gambar 1.7 Pengukuran tekanan biogas**



**Gambar 1.8 Pengukuran suhu biogas**



**Gambar 1.9 Pengukuran volume**



**Gambar 1.10 Nyala api biogas**

**Table Hasil Penelitian Biogas I Sampai Biogas III**

Hari	Biogas I			Biogas II			Biogas III		
	P <sub>B1</sub> (Pa)	T <sub>B1</sub> (°C)	V <sub>B1</sub> (mL)	P <sub>B2</sub> (Pa)	T <sub>B2</sub> (°C)	V <sub>B2</sub> (mL)	P <sub>B3</sub> (Pa)	T <sub>B3</sub> (°C)	V <sub>B3</sub> (mL)
1	101398.00	30.0	1350.05	101300.00	31.0	0.00	101300.00	31.9	0.00
2	107817.00	29.0	1435.51	102956.20	30.0	1370.79	103495.20	31.1	1377.97
3	105445.40	29.1	1403.94	103083.60	30.2	1372.49	101300.00	31.3	0.00
4	105180.80	29.1	1400.41	105122.00	30.0	1399.63	101956.60	31.2	1357.49
5	104867.20	27.2	1396.24	101358.80	28.0	1349.53	103211.00	29.3	1374.19
6	105808.00	28.0	1408.76	104583.00	29.3	1392.45	102770.00	30.4	1368.32
7	104877.00	29.0	1396.37	106043.20	30.3	1411.90	102593.60	31.0	1365.97
8	103505.00	28.9	1378.10	105425.80	30.1	1403.68	101760.60	31.0	1354.88
9	101300.00	27.0	0.00	103034.60	27.9	1371.84	101447.00	28.7	1350.70
10	101300.00	27.1	0.00	102828.80	28.7	1369.10	102495.60	29.4	1364.66
11	101300.00	27.0	0.00	103358.00	28.0	1376.14	102485.80	29.3	1364.53
12	101300.00	26.5	0.00	104906.40	27.8	1396.76	101790.00	28.8	1355.27
13	101300.00	26.2	0.00	106180.40	28.3	1413.72	101839.00	28.1	1355.92
14	101300.00	27.8	0.00	106513.60	28.6	1418.16	101476.40	29.8	1351.09
15	101300.00	28.0	0.00	104161.60	29.8	1386.84	102544.60	30.5	1365.31
16	101300.00	28.0	0.00	103779.40	28.8	1381.75	102623.00	30.0	1366.36
17	101300.00	28.7	0.00	103534.40	29.2	1378.49	102819.00	30.0	1368.97
18	101300.00	27.9	0.00	102750.40	28.5	1368.05	102397.60	29.6	1363.36
19	101300.00	27.8	0.00	102672.00	29.0	1367.01	101790.00	29.7	1355.27
20	101300.00	27.1	0.00	103652.00	28.2	1380.06	102005.60	29.0	1358.14
21	101300.00	26.0	0.00	103622.60	27.2	1379.67	101603.80	28.0	1352.79
22	101300.00	27.0	0.00	103015.00	28.0	1371.58	101417.60	29.0	1350.31
23	101300.00	27.0	0.00	103534.40	28.5	1378.49	101476.40	29.0	1351.09
24	101300.00	28.0	0.00	103505.00	29.2	1378.10	101486.20	30.0	1351.22
25	101300.00	28.0	0.00	103456.00	29.0	1377.45	101300.00	30.0	0.00
26	101300.00	27.0	0.00	102593.60	28.0	1365.97	101300.00	29.0	0.00
27	101300.00	26.7	0.00	102044.80	27.4	1358.66	101300.00	28.7	0.00
28	101300.00	27.0	0.00	101790.00	28.0	1355.27	101300.00	29.0	0.00
29	101300.00	27.9	0.00	102182.00	29.0	1360.49	101300.00	30.0	0.00
30	101300.00	27.2	0.00	101956.60	28.7	1357.49	101300.00	29.0	0.00

Keterangan : P : Tekanan    V : Volume  
T : Suhu

**Table Hasil Penelitian Biogas IV Sampai Biogas V**

Hari	Biogas IV			Biogas V		
	P <sub>B4</sub> (Pa)	T <sub>B4</sub> (°C)	V <sub>B4</sub> (mL)	P <sub>B5</sub> (Pa)	T <sub>B5</sub> (°C)	V <sub>B5</sub> (mL)
1	101741.00	30.0	1354.61	101339.20	30.1	1349.27
2	102672.00	29.0	1367.01	101829.20	29.2	1355.79
3	102917.00	28.9	1370.27	104877.00	29.6	1396.37
4	102985.60	28.8	1371.19	102730.80	29.2	1367.79
5	103857.80	27.0	1382.80	103093.40	27.6	1372.62
6	103211.00	28.1	1374.19	103260.00	28.3	1374.84
7	105719.80	29.0	1407.59	103563.80	29.2	1378.88
8	107395.60	28.8	1429.90	103495.20	29.0	1377.97
9	103730.40	26.0	1381.10	103240.40	26.4	1374.58
10	103808.80	27.3	1382.15	103671.60	27.1	1380.32
11	104240.00	26.6	1387.89	103407.00	27.0	1376.80
12	103456.00	26.3	1377.45	103603.00	27.8	1379.41
13	103818.60	26.0	1382.28	101907.60	26.4	1356.83
14	102711.20	27.8	1367.53	102103.60	27.8	1359.44
15	102260.40	28.7	1361.53	102260.40	28.1	1361.53
16	102054.60	27.7	1358.79	101741.00	27.9	1354.61
17	102280.00	28.0	1361.79	102799.40	28.4	1368.71
18	101956.60	28.2	1357.49	102632.80	27.4	1366.49
19	102035.00	28.8	1358.53	102721.00	27.9	1367.66
20	101780.20	26.9	1355.14	102652.40	26.9	1366.75
21	101545.00	26.0	1352.01	102819.00	26.0	1368.97
22	101300.00	27.5	0.00	102299.60	27.0	1362.05
23	101300.00	27.0	0.00	102564.20	27.6	1365.58
24	101300.00	28.0	0.00	102652.40	28.2	1366.75
25	101300.00	28.0	0.00	102819.00	28.0	1368.97
26	101300.00	27.0	0.00	102476.00	27.0	1364.40
27	101300.00	26.0	0.00	102152.60	26.8	1360.10
28	101300.00	27.0	0.00	102103.60	27.4	1359.44
29	101300.00	27.8	0.00	102525.00	28.0	1365.05
30	101300.00	27.0	0.00	102427.00	27.3	1363.75