

PT WIJAYA KARYA (PERSERO) TBK.
PROYEK PLTU KETAPANG 2X10 MW
REQUEST FOR WITNESS / INSPECTION

Ref. No. : WIKA-08-03- 922 / XI /14
 Date / Time : 04 / 11 / 2014
 Submitted By : PT WIJAYA KARYA

To : PT PLN
 Proyek PLTU KETAPANG 2X10 MW

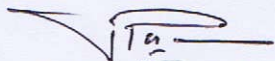
Dear Sirs,

Please be informed that the following items are in order and are ready for inspection/witness.

Location : Stack Chimney (2nd Stage)
 Inspection Item : Pile work. ✓
 Element : D. Geo. 36 m. (10 Titik (10. pile number).

Item	Drawing Reference	Date / Time of Inspection
	<u>10NE36 - DWG - 103 - 51 - 001 - 01</u>	<u>04 / 11 / 2014</u>

Acknowledged By


AGUS PRAWOTO

PLN's Comments :

☐

Acceptable, you may proceed WITH/WITHOUT our attendance.

☐

Please reschedule the witness/inspection date

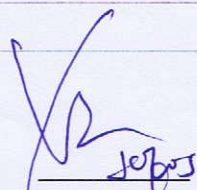
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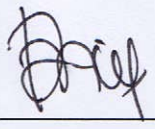
Not acceptable, you shall rectify item and resubmit request for inspection

☐

Others :

Name / Signature :


 PT. PLN JMK


 PT. PLN UIP

Date / Time : _____



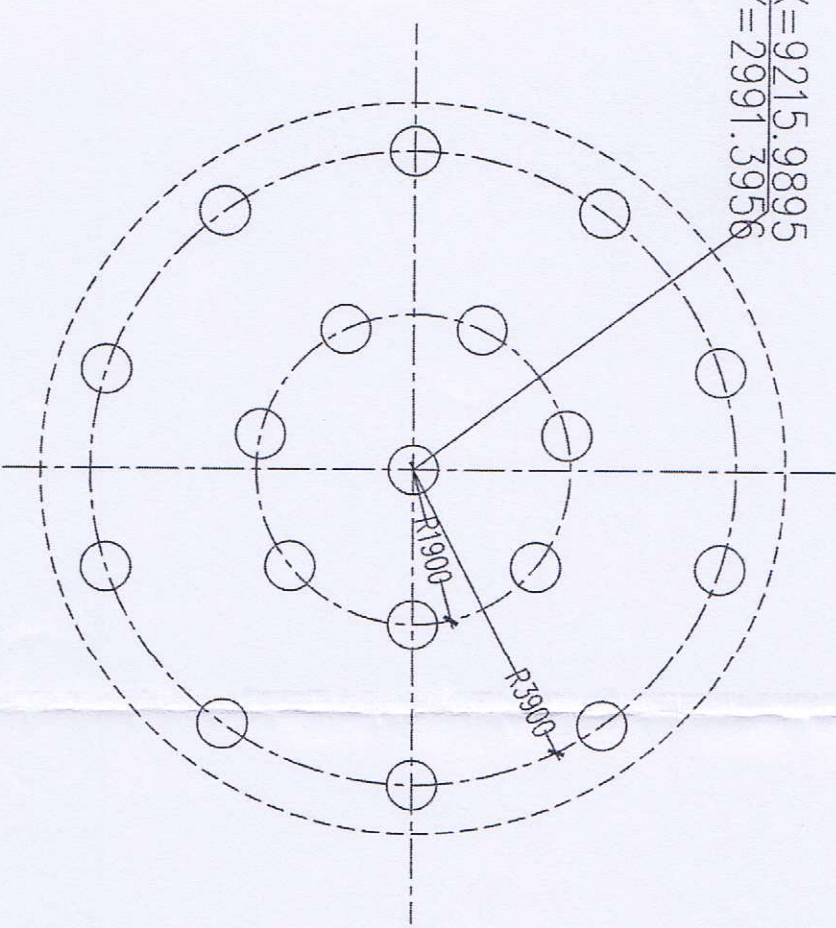
PROYEK PLTU KETAPANG 2X10 MW KALIMANTAN BARAT

INSPECTION RECORD
PILE WORK (DRIVING)

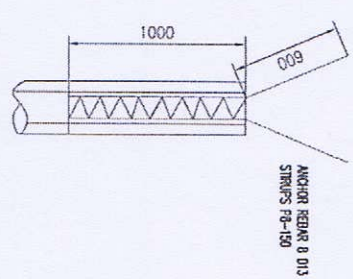
FORM ID: IR - 002

1	Structure: Foundation: <i>Stack,</i>	Reference Drawing No.																																																																																																																																																																																				
2	Work: Pile Work (Driving) <i>D. 600, 36 m,</i>																																																																																																																																																																																					
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姓名/DES.	姓名/SIGN.	日期/DATE	姓名/DES.	姓名/SIGN.	日期/DATE	姓名/DES.	姓名/SIGN.	日期/DATE	姓名/DES.	姓名/SIGN.	日期/DATE
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姓名/ELEC.			姓名/ELEC.			姓名/ELEC.			姓名/ELEC.		
姓名/PLN.			姓名/PLN.			姓名/PLN.			姓名/PLN.		



烟??位布置?
Pile Layout of Stack

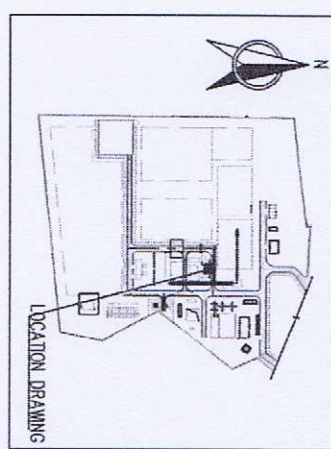


FOR APPROVAL

表1 烟??基??表
Table 1 List of the pile foundation of Stack

区域? domain	基??号 NO.	基?数量 number of foundation	?个基??数(根) pile number of each foundation	?截面尺寸 dimension of cut pile top(m)	???高(米) elevation of remark
烟?	PO-1	1	18	ø600	-2.200

- 明:
1.??高EL±0.000m相当于??高??+6.000m.
本??高以米?,其余尺寸以毫米?
2.??均匀布置,??明??F1401S-T0203-01
- Notes:
1.The design elevation EL±0.000 equals to the absolute elevation+6.000m.
the elevation is meter,the other dimention are in millimeter in the design.
2.PC pile specification see F1401S-T0203-01. Design Pile Depth 36 m



PLTU KETAPANG (2 X 10 MW)
CONTRACTOR DOCUMENT REVIEW
LOG REF NO :
IN COMM NO :
A ☒ APPROVED
B ☐ APPROVED AS NOTED
C ☐ NOT APPROVED
D ☐ INFORMATION
APPROVED DOES NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERROR OR DEVIATIONS FROM CONTRACT REQUIREMENTS
BY: *My* DATE: *DATE*
LOG: *LOG* BY: *BY* DATE: *DATE*

PT. PLN (PERSERO)

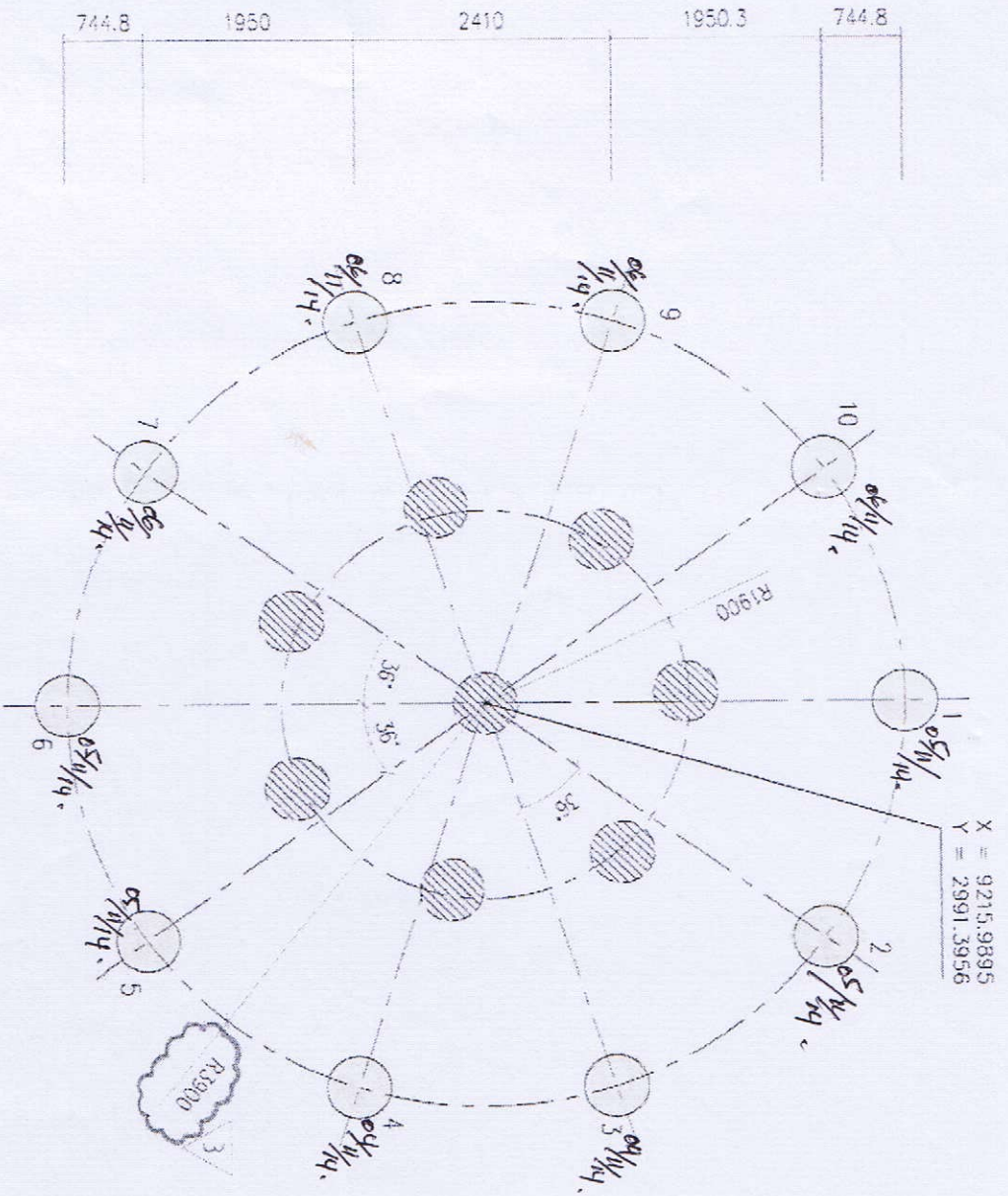
PT. PLN (PERSERO)
PT. WIJAYA KARYA (PERSERO) Tbk.

CONSORTIUM NWP-CRUN

山西佳华电力工程设计有限公司
SHANXI JIAHUA ELECTRIC POWER ENGINEERING DESIGN CO.,LTD.

SIHUIAN WANGJIANG FAN MANUFACTURER CO.,LTD
PROJECT : PLTU KETAPANG 2X10 MW PROJECT
TITLE : STACK FOUNDATION PLAN
DATE : 2014-05-14
DRAWN BY : *DATE*
CHECKED BY : *DATE*
APPROVED BY : *DATE*

1416.8 2792.4 2792.4 1416.8



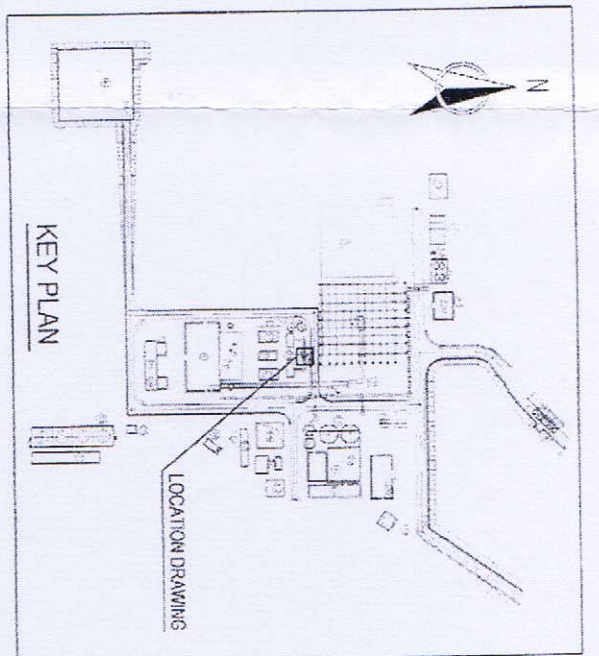
PILE SCHEDULE

PILE NUMBER:	DIMENSIONS: [MM]	PILE CUT-OFF LEVEL: [M]	PILE LENGTH: [M]	COORDINATE	
				X	Y
1	ø600	+4.700	36	X = 9215.9895	Y = 2995.2956
2	ø600	+4.700	36	X = 9218.2819	Y = 2994.5508
3	ø600	+4.700	36	X = 9219.6986	Y = 2992.6008
4	ø600	+4.700	36	X = 9219.6986	Y = 2990.1905
5	ø600	+4.700	36	X = 9218.2819	Y = 2988.2405
6	ø600	+4.700	36	X = 9215.9895	Y = 2987.5069
7	ø600	+4.700	36	X = 9213.6972	Y = 2988.2405
8	ø600	+4.700	36	X = 9212.2804	Y = 2990.1905
9	ø600	+4.700	36	X = 9212.2804	Y = 2992.6008
10	ø600	+4.700	36	X = 9213.6972	Y = 2994.5508

3 COORDINATE REVISE

List of The Pile Foundation

Pile	Number of Pile	DIMENSION OF PILE	TOP LEVEL OF PILE	PILE LENGTH (M)
○ EXTENSION	10	ø600	+4.700	36
● EXISTING	8	ø600	+2.500	36



WILKA
Date: 23 SEP 2014
ORIGINAL DOCUMENTS

WILKA
Date: 23 SEP 2014
FOR CONSTRUCTION

WILKA
Date: 23 SEP 2014
DISTRIBUTION

PROJECT NAME		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT LOCATION		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT NO.		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT DATE		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT STATUS		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT TYPE		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT OWNER		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT MANAGER		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT ENGINEER		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT SURVEYOR		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT DRAFTER		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT CHECKER		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT APPROVER		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT REVIEWER		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT SIGNATURE		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT STAMP		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT SCALE		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT UNIT		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT COLOR		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT FONT		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT LINE		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT TEXT		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT IMAGE		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT VIDEO		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT AUDIO		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT ANIMATION		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT INTERACTIVE		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT 3D		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT 4D		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT 5D		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT 6D		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT 7D		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT 8D		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT 9D		PT. MULYA KARYA (PERSERO) Tbk	
PROJECT 10D		PT. MULYA KARYA (PERSERO) Tbk	

PROYEK PLTU KETAPANG 2X10 MW KALIMANTAN BARAT



INSPECTION RECORD PILE WORK (DRIVING)

FORM ID: IR - 002

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PROYEK PLTU KETAPANG 2X10 MW KALIMANTAN BARAT
PT. WIJAYA KARYA, EPC DEPT.



FACILITY :
PILE NUMBER :
DESIGN LOAD :
Ru ULTIMATE :
LONG TERM :
Ra HILLEY FORMULA :

PILE DRIVING LOG

FORM ID: PDR - 001

PROJECT	: PLU Ketapang	DATE	: 5/14
CONTRACTOR	: Wika	STARTING TIME	: 13.00
BLOCK NO	: Stack	ENDING TIME	: 14.23
PILE NO	: P: 01	TOTAL DRIVE TIME	: 1 jam 23 menit
PILE TYPE	: SPone pile	SPLICE WELDING TIME	: 25 + 33 menit
LENGTH OF PILE	: 12 + 12	HAMMER MODEL NO.	: DDP Hammer
DIMENSION	: Ø 600 mm	SERIAL NO.	: D. 63
CASTING - DATE	: 9/8/14 + 24/4/14	TOTAL WEIGHT	: 9500 kg
TOTAL NO. OF BLOWS	: 1023	PISTON WEIGHT	: 6300 kg
PENETRATION DEPTH	: 36 m	MAX. ENERGY	:
FINAL SET	:	RAM STROKE	:
DEPTH OF AUGURING	:	AUGER SIZE	:
DEPTH & TYPE OF SOIL STRATA	:	GROUND LEVEL ELEVATION	:
COORDINAT	N: 0215.989, E: 2995.295.	PILE HEAD ELEVATION	: + 4.690.
ACTUAL	N: 0216.082, E: 2995.368.	WELDER CODE / NAME	: Agut

M	Blow count	M	Blow count	M	Blow count	M	Blow count
0,0	1	10,0		20,0	272	30,0	642
0,5		10,5	24	20,5	242	30,5	670
1,0		11,0	29	21,0	261	31,0	686
1,5		11,5	35	21,5	280	31,5	703
2,0		12,0	41	22,0	300	32,0	729
2,5		12,5	47	22,5	320	32,5	750
3,0		13,0	54	23,0	340	33,0	773
3,5	8	13,5	63	23,5	360	33,5	800
4,0		14,0	70	24,0	380	34,0	824
4,5		14,5	79	24,5	400	34,5	850
5,0		15,0	82	25,0	420	35,0	879
5,5		15,5	90	25,5	440	35,5	900
6,0		16,0	110	26,0	460	36,0	1023
6,5	15	16,5	123	26,5	480		
7,0		17,0	136	27,0	500		
7,5		17,5	149	27,5	521		
8,0		18,0	162	28,0	542		
8,5		18,5	175	28,5	568		
9,0		19,0	189	29,0	589		
9,5	21	19,5	200	29,5	603		
10,0		20,0	216	30,0	626		

REMARKS :

Sub cont.

Prepared by

PT WIKI

Witnessed by
PT. PLN JMK

Witnessed by
PT. PLN UIP

(.....)

(.....)

(.....)

(.....)

STACK

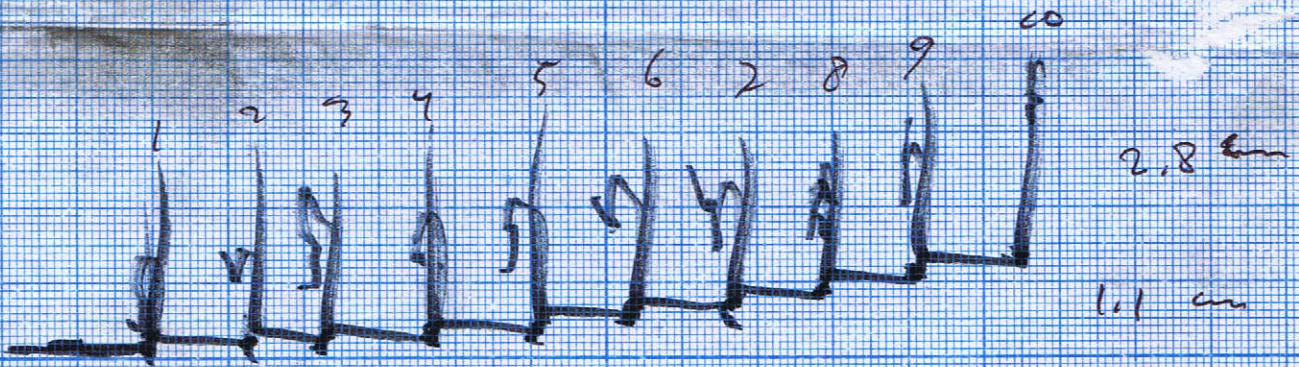
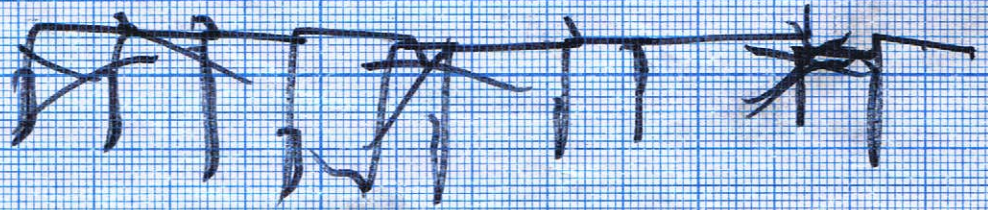
P. 01

F: 1.1 cm

R: 2.8 cm

H: 190 cm

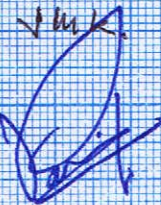
Blower - 10 23



Sub Cont.

Wika ADVISOR

Wika Qe.



PLW.

Date

Squid

A. Gultom

AGUS PRAMONO



PROYEK PLTU KETAPANG 2X10 MW KALIMANTAN BARAT

INSPECTION RECORD
PILE WORK (DRIVING)

FORM ID: IR - 002

1 Structure: STACK
Foundation: STACK
Reference Drawing No.

2 Work: Pile Work (Driving)

3 Inspection Items: Driven Pile P.02

4 Inspection Date & Time: Day: 05 Month: 11 Year: 2014 Hour: Minute:

5 Attendant's Name

	SUBCONT	WIKA	PLN JMK	PLN
Name	<u>Mr. Agus Perwoto</u>	<u>Agus Perwoto</u>	<u>Farid</u>	<u>Farid</u>
Signature	<u>Agus Perwoto</u>	<u>Agus Perwoto</u>	<u>Farid</u>	<u>Farid</u>

6 Parameter Inspection :

	Design Value	Actual Measure	Allowable Tolerance	Judgment
Cushion				
Diameter	600 mm	<u>600 mm</u>		
Thickness	100 mm	<u>100 mm</u>	±30mm	
Section of Pile (Bottom)				
Date of Pile production	<u>09/08/14</u>	<u>09/08/14</u>	14 days	
Length of Pile	12 m	<u>12 m</u>		
Diameter of Pile	600 mm	<u>600 mm</u>		
Condition of Pile	Good	<u>Good</u>		
Concrete Pile Class	A1	<u>A1</u>		
Section of Pile (Upper)				
Date of Pile production	<u>17/08/14</u>	<u>17/08/14</u>	14 days	
Length of Pile	12 m	<u>12 m</u>		
Diameter of Pile	600 mm	<u>600 mm</u>		
Condition of Pile	Good	<u>Good</u>		
Concrete Pile Class	A1	<u>A1</u>		
Section of Pile (Upper)				
Date of Pile production	<u>09/08/14</u>	<u>09/08/14</u>	14 days	
Length of Pile	12 m	<u>12 m</u>		
Diameter of Pile	600 mm	<u>600 mm</u>		
Condition of Pile	Good	<u>Good</u>		
Concrete Pile Class	A1	<u>A1</u>		
Setting Out				
Point No.				
Coordinat Pile				
X Coordinate	<u>9218.231</u>	<u>9218.232</u>	75 mm	
Y Coordinate	<u>2994.550</u>	<u>2994.557</u>	75 mm	
Elevation Ground Surface				
Welding Joint Pile				
Welder Certificate	2G-Pipe	<u>E G</u>		
Electrode Class	RB-26, RD-260, lion 26	<u>LB 52</u>	equivalent	
Electrode Diameter	3.2 - 4 mm	<u>4 mm</u>		
Pile Driven Record				
Pile Driven Log	attached			
Final Set Record	attached			
Others				

7 PLN's Comment:

Witnessed



PROYEK PLTU KETAPANG 2X10 MW KALIMANTAN BARAT
PT. WIJAYA KARYA, EPC DEPT.



FACILITY :
PILE NUMBER :
DESIGN LOAD :
Ru ULTIMATE :
LONG TERM :
Ra HILLEY FORMULA :

PILE DRIVING LOG

FORM ID: PDR - 001

PROJECT	: PLTU Ketapang	DATE	: 9/11/14
CONTRACTOR	: Wika	STARTING TIME	: 08.00
BLOCK NO	: 5AK	ENDING TIME	: 09.24
PILE NO	: P:02	TOTAL DRIVE TIME	: 1 Jam 24 menit
PILE TYPE	: SPON pile	SPLICE WELDING TIME	: 35 + 34 menit
LENGTH OF PILE	: 12 + 12 + 12	HAMMER MODEL NO.	: Drop Hammer.
DIMENSION	: Ø 300 mm	SERIAL NO.	: D-63
CASTING - DATE	: 9/8/14 + 12/8/14 + 9/8/14	TOTAL WEIGHT	: 9500 kg
TOTAL NO. OF BLOWS	: 1075	PISTON WEIGHT	: 6300 kg
PENETRATION DEPTH	: 36 m	MAX. ENERGY	:
FINAL SET	:	RAM STROKE	:
DEPTH OF AUGURING	:	AUGER SIZE	:
DEPTH & TYPE OF SOIL STRATA	GROUND LEVEL ELEVATION :		
COORDINAT N: 9218.281, E: 2994.550.	PILE HEAD ELEVATION : +4.680.		
ACTUAL N: 9218.257, E: 2994.557.	WELDER CODE / NAME : Agus + 1		

M	Blow count	M	Blow count	M	Blow count	M	Blow count
0,0	1	10,0	22	20,0	273	30,0	693
0,5		10,5	25	20,5	290	30,5	713
1,0		11,0	28	21,0	315	31,0	730
1,5		11,5	32	21,5	332	31,5	751
2,0		12,0	32	22,0	350	32,0	773
2,5		12,5	43	22,5	367	32,5	794
3,0		13,0	50	23,0	380	33,0	823
3,5		13,5	59	23,5	412	33,5	840
4,0	8	14,0	70	24,0	430	34,0	865
4,5		14,5	82	24,5	451	34,5	881
5,0		15,0	95	25,0	468	35,0	903
5,5		15,5	110	25,5	482	35,5	937
6,0		16,0	125	26,0	500	36,0	1029
6,5		16,5	140	26,5	521		
7,0		17,0	165	27,0	543		
7,5	16	17,5	180	27,5	568		
8,0		18,0	195	28,0	591		
8,5		18,5	210	28,5	613		
9,0		19,0	227	29,0	635		
9,5	20	19,5	240	29,5	651		
10,0		20,0	257	30,0	670		

REMARKS :

Sub cont.

Prepared by

PT WIKI

Witnessed by
PT. PLN JMK

Witnessed by
PT. PLN UIP

(.....)

(.....)

Handlin A.

(.....)

9/14
11

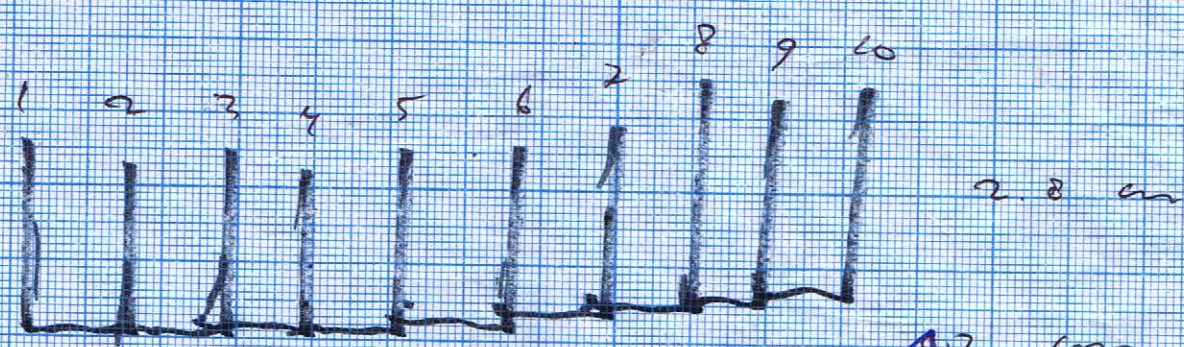
STATE $P = 02$

$P = 0.7 \leftarrow$

$R = 2.8 \text{ cm}$

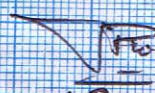
$M = 170 \text{ cm}$

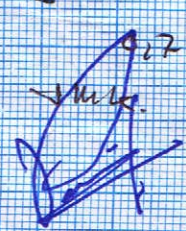
Blow: 1075

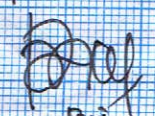


Hjems
sgut


B. G. G. G.

WIKI DE.

AGS Baraka.


9/17

cm
PLN.

D. G. G.



PROYEK PLTU KETAPANG 2X10 MW KALIMANTAN BARAT

INSPECTION RECORD
PILE WORK (DRIVING)

FORM ID: IR - 002

1	Structure: Foundation: STACK,	Reference Drawing No.																																																																																																																																																																																							
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3	Inspection Items:	Driven Pile P. 03.																																																																																																																																																																																							
4	Inspection Date & Time:	Day: 04 Month: 11 Year: 2014. Hour: Minute:																																																																																																																																																																																							
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PROYEK PLTU KETAPANG 2X10 MW KALIMANTAN BARAT
PT. WIJAYA KARYA, EPC DEPT.



FACILITY :
PILE NUMBER :
DESIGN LOAD :
Ru ULTIMATE :
LONG TERM :
Ra HILLEY FORMULA :

PILE DRIVING LOG

FORM ID: PDR - 001

PROJECT	: PLTU Ketapang	DATE	: 7/11
CONTRACTOR	: WIKO	STARTING TIME	: 15.35
BLOCK NO	: 522K	ENDING TIME	: 17.15
PILE NO	: P-03	TOTAL DRIVE TIME	: 2 jam 40 min.
PILE TYPE	: SPON pile	SPLICE WELDING TIME	: 35 min + 38 min
LENGTH OF PILE	: 12 + 12 + 12	HAMMER MODEL NO.	: PROP HAMMER
DIMENSION	: Ø 600	SERIAL NO.	: D-63
CASTING - DATE	: 4/4 + 7/4 + 17/4	TOTAL WEIGHT	: 9500 kg
TOTAL NO. OF BLOWS	: 1107	PISTON WEIGHT	: 6700 kg
PENETRATION DEPTH	: 36 m	MAX. ENERGY	:
FINAL SET	:	RAM STROKE	:
DEPTH OF AUGURING	:	AUGER SIZE	:
DEPTH & TYPE OF SOIL STRATA	GROUND LEVEL ELEVATION :		
COORDINAT	N: 0219.698, E: 2992.600.	PILE HEAD ELEVATION	: + 4.897.
ACTUAL	N: 0219.685, E: 2992.708.	WELDER CODE / NAME	: AGUS

M	Blow count	M	Blow count	M	Blow count	M	Blow count
0,0	1	10,0	22	20,0	215	30,0	680
0,5		10,5	30	20,5	230	30,5	708
1,0		11,0	33	21,0	245	31,0	731
1,5		11,5	39	21,5	260	31,5	760
2,0		12,0	45	22,0	280	32,0	793
2,5		12,5	51	22,5	300	32,5	821
3,0	8	13,0	59	23,0	320	33,0	847
3,5		13,5	67	23,5	340	33,5	869
4,0		14,0	73	24,0	360	34,0	883
4,5		14,5	81	24,5	380	34,5	909
5,0		15,0	89	25,0	400	35,0	928
5,5		15,5	97	25,5	425	35,5	957
6,0	16	16,0	105	26,0	450	36,0	1007
6,5		16,5	113	26,5	475		
7,0		17,0	124	27,0	500		
7,5		17,5	137	27,5	527		
8,0		18,0	150	28,0	554		
8,5	22	18,5	168	28,5	578		
9,0		19,0	180	29,0	604		
9,5		19,5	187	29,5	630		
10,0		20,0	207	30,0	656		

REMARKS :

Sub cont.

Prepared by

PT WIKA

Witnessed by
PT. PLN JMK

Witnessed by
PT. PLN UIP

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4/14

03

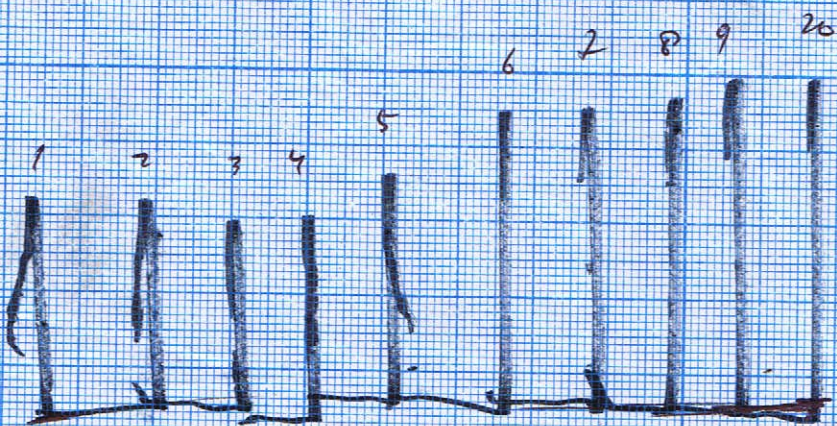
STAND

P: 0.9 m

R: 4.5 m

H: 180

Blm: 1107



4.5 m

SubCont.

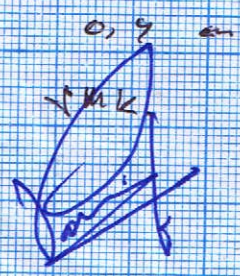
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PLN.

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PROYEK PLTU KETAPANG 2X10 MW KALIMANTAN BARAT

INSPECTION RECORD
PILE WORK (DRIVING)

FORM ID: IR - 002

1	Structure: Foundation: STACK.	Reference Drawing No.																																																																																																																																																																																				
2	Work: Pile Work (Driving)																																																																																																																																																																																					
3	Inspection Items: Driven Pile P. 04.																																																																																																																																																																																					
4	Inspection Date & Time: Day: 04 , Month: 11 , Year: 2014 , Hour: 12 , Minute: 00																																																																																																																																																																																					
5	Attendant's Name Name: SUBCOM Signature: Agus Pramoto	WIKA PLN JMK PLN																																																																																																																																																																																				
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FACILITY :
PILE NUMBER :
DESIGN LOAD :
Ru ULTIMATE :
LONG TERM :
Ra HILLEY FORMULA :

PILE DRIVING LOG

FORM ID: PDR-001

PROJECT	: PLTU Ketapang	DATE	: 7/11/14
CONTRACTOR	: Wika	STARTING TIME	: 14.00
BLOCK NO	: STAK	ENDING TIME	: 15.34
PILE NO	: P-09	TOTAL DRIVE TIME	: 1 jam 34 menit.
PILE TYPE	: SPON pile	SPLICE WELDING TIME	: 30 + 28 min.
LENGTH OF PILE	: 12 + 12 + 12	HAMMER MODEL NO.	: DROP HAMMER.
DIMENSION	: Ø 600 mm	SERIAL NO.	: D-63
CASTING - DATE	: 11/8/14 + 17/8/14 + 18/8/14	TOTAL WEIGHT	: 9500 kg
TOTAL NO. OF BLOWS	: 871	PISTON WEIGHT	: 6300 kg
PENETRATION DEPTH	: 36 m	MAX. ENERGY	:
FINAL SET	:	RAM STROKE	:
DEPTH OF AUGURING	:	AUGER SIZE	:
DEPTH & TYPE OF SOIL STRATA	:	GROUND LEVEL ELEVATION	:
COORDINAT N: 9219.008. E: 2990.190.		PILE HEAD ELEVATION	: +4.703.
ACTUAL N: 9219.020. E: 2990.194.		WELDER CODE / NAME	: AQUS.

M	Blow count	M	Blow count	M	Blow count	M	Blow count
0,0	1	10,0		20,0	141	30,0	454
0,5		10,5	27	20,5	148	30,5	468
1,0		11,0	30	21,0	155	31,0	483
1,5		11,5	35	21,5	162	31,5	517
2,0		12,0	40	22,0	167	32,0	534
2,5		12,5	47	22,5	179	32,5	568
3,0	7	13,0	50	23,0	184	33,0	591
3,5		13,5	55	23,5	200	33,5	618
4,0		14,0	60	24,0	213	34,0	641
4,5		14,5	66	24,5	226	34,5	677
5,0		15,0	72	25,0	240	35,0	723
5,5		15,5	78	25,5	253	35,5	726
6,0		16,0	84	26,0	266	36,0	871
6,5	19	16,5	90	26,5	281		
7,0		17,0	98	27,0	306		
7,5		17,5	102	27,5	323		
8,0		18,0	108	28,0	342		
8,5		18,5	114	28,5	365		
9,0		19,0	120	29,0	390		
9,5	23	19,5	127	29,5	414		
10,0		20,0	134	30,0	430		

REMARKS :

Sub cont.

Prepared by

PT WIKA

Witnessed by
PT. PLN JMK

Witnessed by
PT. PLN UIP

(.....)

(.....)

Fardian A.

(.....)

P.04.

4/14
11

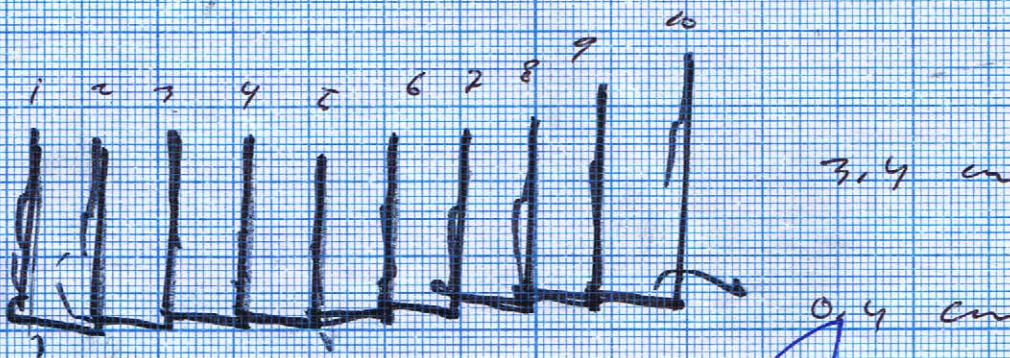
STAK.

F1: 0.4 cm

R: 3.4 cm

H1: 175 cm

Blow: 871 c



DIAMOND

WIKI SPV

WIKI QC

PLA FRANK

PLA WIP

930ms

WIKI SPV
WIKI QC
PLA FRANK
PLA WIP

WIKI SPV
WIKI QC
PLA FRANK
PLA WIP

WIKI SPV
WIKI QC
PLA FRANK
PLA WIP



PROYEK PLTU KETAPANG 2X10 MW KALIMANTAN BARAT

INSPECTION RECORD
PILE WORK (DRIVING)

FORM ID: IR - 002

1	Structure: Foundation: <u>STACK.</u>	Reference Drawing No.																																																																																																																																																																																												
2	Work:	Pile Work (Driving)																																																																																																																																																																																												
3	Inspection Items:	Driven Pile <u>P.05.</u>																																																																																																																																																																																												
4	Inspection Date & Time:	Day: <u>05</u> Month: <u>11</u> Year: <u>2014.</u> Hour: Minute:																																																																																																																																																																																												
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6	Parameter Inspection :	<table border="1"><thead><tr><th></th><th>Design Value</th><th>Actual Measure</th><th>Allowable Tolerance</th><th>Judgment</th></tr></thead><tbody><tr><td colspan="5">Cushion</td></tr><tr><td>Diameter</td><td>600 mm</td><td><u>600 mm.</u></td><td></td><td></td></tr><tr><td>Thickness</td><td>100 mm</td><td><u>100 mm.</u></td><td>±30mm</td><td></td></tr><tr><td colspan="5">Section of Pile (Bottom)</td></tr><tr><td>Date of Pile production</td><td><u>19/08/14.</u></td><td><u>19/08/14.</u></td><td>14 days</td><td></td></tr><tr><td>Length of Pile</td><td>12 m</td><td><u>12 m.</u></td><td></td><td></td></tr><tr><td>Diameter of Pile</td><td>600 mm</td><td><u>600 mm.</u></td><td></td><td></td></tr><tr><td>Condition of Pile</td><td>Good</td><td><u>Good.</u></td><td></td><td></td></tr><tr><td>Concrete Pile Class</td><td>A1</td><td><u>A1.</u></td><td></td><td></td></tr><tr><td colspan="5">Section of Pile (Upper)</td></tr><tr><td>Date of Pile production</td><td><u>09/04/14.</u></td><td><u>09/04/14.</u></td><td>14 days</td><td></td></tr><tr><td>Length of Pile</td><td>12 m</td><td><u>12 m.</u></td><td></td><td></td></tr><tr><td>Diameter of Pile</td><td>600 mm</td><td><u>600 mm.</u></td><td></td><td></td></tr><tr><td>Condition of Pile</td><td>Good</td><td><u>Good.</u></td><td></td><td></td></tr><tr><td>Concrete Pile Class</td><td>A1</td><td><u>A1.</u></td><td></td><td></td></tr><tr><td colspan="5">Section of Pile (Upper)</td></tr><tr><td>Date of Pile production</td><td><u>09/03/14.</u></td><td><u>09/03/14.</u></td><td>14 days</td><td></td></tr><tr><td>Length of Pile</td><td>12 m</td><td><u>12 m.</u></td><td></td><td></td></tr><tr><td>Diameter of Pile</td><td>600 mm</td><td><u>600 mm.</u></td><td></td><td></td></tr><tr><td>Condition of Pile</td><td>Good</td><td><u>Good.</u></td><td></td><td></td></tr><tr><td>Concrete Pile Class</td><td>A1</td><td><u>A1.</u></td><td></td><td></td></tr><tr><td colspan="5">Setting Out</td></tr><tr><td>Point No.</td><td></td><td></td><td></td><td></td></tr><tr><td>Coordinat Pile</td><td></td><td></td><td></td><td></td></tr><tr><td>X Coordinate</td><td><u>9218.281.</u></td><td><u>9218.190.</u></td><td>75 mm</td><td></td></tr><tr><td>Y Coordinate</td><td><u>2988.240.</u></td><td><u>2988.125.</u></td><td>75 mm</td><td></td></tr><tr><td>Elevation Ground Surface</td><td></td><td></td><td></td><td></td></tr><tr><td colspan="5">Welding Joint Pile</td></tr><tr><td>Welder Certificate</td><td>2G-Pipe</td><td><u>6 G</u></td><td></td><td></td></tr><tr><td>Electrode Class</td><td>RB-26, RD-260, lion 26</td><td><u>LB52</u></td><td>equivalent</td><td></td></tr><tr><td>Electrode Diameter</td><td>3.2 - 4 mm</td><td><u>4 mm.</u></td><td></td><td></td></tr><tr><td colspan="5">Pile Driven Record</td></tr><tr><td>Pile Driven Log</td><td>attached</td><td></td><td></td><td></td></tr><tr><td>Final Set Record</td><td>attached</td><td></td><td></td><td></td></tr><tr><td colspan="5">Others</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>					Design Value	Actual Measure	Allowable Tolerance	Judgment	Cushion					Diameter	600 mm	<u>600 mm.</u>			Thickness	100 mm	<u>100 mm.</u>	±30mm		Section of Pile (Bottom)					Date of Pile production	<u>19/08/14.</u>	<u>19/08/14.</u>	14 days		Length of Pile	12 m	<u>12 m.</u>			Diameter of Pile	600 mm	<u>600 mm.</u>			Condition of Pile	Good	<u>Good.</u>			Concrete Pile Class	A1	<u>A1.</u>			Section of Pile (Upper)					Date of Pile production	<u>09/04/14.</u>	<u>09/04/14.</u>	14 days		Length of Pile	12 m	<u>12 m.</u>			Diameter of Pile	600 mm	<u>600 mm.</u>			Condition of Pile	Good	<u>Good.</u>			Concrete Pile Class	A1	<u>A1.</u>			Section of Pile (Upper)					Date of Pile production	<u>09/03/14.</u>	<u>09/03/14.</u>	14 days		Length of Pile	12 m	<u>12 m.</u>			Diameter of Pile	600 mm	<u>600 mm.</u>			Condition of Pile	Good	<u>Good.</u>			Concrete Pile Class	A1	<u>A1.</u>			Setting Out					Point No.					Coordinat Pile					X Coordinate	<u>9218.281.</u>	<u>9218.190.</u>	75 mm		Y Coordinate	<u>2988.240.</u>	<u>2988.125.</u>	75 mm		Elevation Ground Surface					Welding Joint Pile					Welder Certificate	2G-Pipe	<u>6 G</u>			Electrode Class	RB-26, RD-260, lion 26	<u>LB52</u>	equivalent		Electrode Diameter	3.2 - 4 mm	<u>4 mm.</u>			Pile Driven Record					Pile Driven Log	attached				Final Set Record	attached				Others									
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PROYEK PLTU KETAPANG 2X10 MW KALIMANTAN BARAT
PT. WIJAYA KARYA, EPC DEPT.



FACILITY :
PILE NUMBER :
DESIGN LOAD :
Ru ULTIMATE :
LONG TERM :
Ra HILLEY FORMULA :

PILE DRIVING LOG

FORM ID: PDR - 001

PROJECT	: pln ketapang	DATE	: 5/11/14
CONTRACTOR	: wika	STARTING TIME	: 14.24
BLOCK NO	: STAKE	ENDING TIME	: 16.00
PILE NO	: P: 05	TOTAL DRIVE TIME	: 1 jam 76 mnt.
PILE TYPE	: SPON pile	SPLICE WELDING TIME	: 35 + 35 mnt.
LENGTH OF PILE	: 12 + 12 + 12	HAMMER MODEL NO.	: DDP Hammer.
DIMENSION	: 8 600 mm	SERIAL NO.	: 0-63
CASTING - DATE	: 17/8/14 + 9/11/14 + 1/1/14	TOTAL WEIGHT	: 9500 kg
TOTAL NO. OF BLOWS	: 1053	PISTON WEIGHT	: 6300 kg
PENETRATION DEPTH	: 36 m	MAX. ENERGY	:
FINAL SET	:	RAM STROKE	:
DEPTH OF AUGURING	:	AUGER SIZE	:
DEPTH & TYPE OF SOIL STRATA	:	GROUND LEVEL ELEVATION	:
COORDINAT	N: 0218.281. E: 2908.240.	PILE HEAD ELEVATION	: +. 9.902.
ACTUAL	N: 0218.190. E: 2988.125.	WELDER CODE / NAME	: Agur

M	Blow count	M	Blow count	M	Blow count	M	Blow count
0,0	1	10,0		20,0	281	30,0	716
0,5		10,5	32	20,5	300	30,5	734
1,0		11,0	35	21,0	320	31,0	752
1,5		11,5	39	21,5	340	31,5	771
2,0		12,0	45	22,0	360	32,0	793
2,5		12,5	52	22,5	380	32,5	816
3,0	0	13,0	57	23,0	400	33,0	839
3,5		13,5	66	23,5	421	33,5	860
4,0		14,0	78	24,0	442	34,0	887
4,5		14,5	89	24,5	463	34,5	904
5,0		15,0	100	25,0	485	35,0	918
5,5		15,5	115	25,5	501	35,5	937
6,0	15	16,0	130	26,0	520	36,0	1053
6,5		16,5	145	26,5	523		
7,0		17,0	160	27,0	568		
7,5		17,5	175	27,5	582		
8,0		18,0	190	28,0	608		
8,5	23	18,5	205	28,5	629		
9,0		19,0	220	29,0	652		
9,5	28	19,5	237	29,5	675		
10,0		20,0	260	30,0	697		

REMARKS :
.....
.....
.....

Sub cont.

Prepared by

PT WIKI

Witnessed by
PT. PLN JMK

Witnessed by
PT. PLN UIP

Agur
(.....)

[Signature]
(.....)

[Signature]
Fardin A.

[Signature]
(.....)

STACK
P. 05

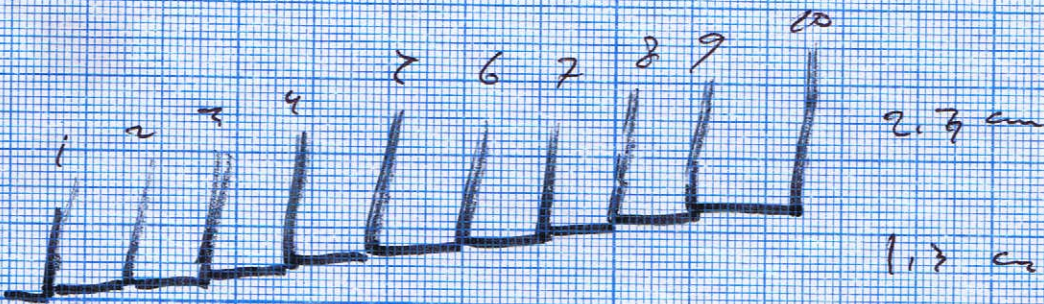
5/14
11

F : 1.3 cm

R : 2.3 cm

M : 160 cm

B/ow = 1053



SubCont.

Wika Supertusa

Wika @c.

Yurk.

PLW.

Pino
Agus

Wika
Agus

Wika
AGUS R.

Yurk.

PLW.
Pino



PROYEK PLTU KETAPANG 2X10 MW KALIMANTAN BARAT

INSPECTION RECORD
PILE WORK (DRIVING)

FORM ID: IR - 002

1	Structure: Foundation: Stack.	Reference Drawing No.																																																																																																																																																																																							
2	Work:	Pile Work (Driving)																																																																																																																																																																																							
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Witnessed



PROYEK PLTU KETAPANG 2X10 MW KALIMANTAN BARAT
PT. WIJAYA KARYA, EPC DEPT.



FACILITY :
PILE NUMBER :
DESIGN LOAD :
Ru ULTIMATE :
LONG TERM :
Ra HILLEY FORMULA :

PILE DRIVING LOG

FORM ID: PDR - 001

PROJECT	: PLTU Ketapang	DATE	: 5/11/14
CONTRACTOR	: Wika	STARTING TIME	: 16.01
BLOCK NO	: Stack	ENDING TIME	: 17.23
PILE NO	: P: 06	TOTAL DRIVE TIME	: 1 Jam 22 menit
PILE TYPE	: SPON pile	SPLICE WELDING TIME	: 30 + 30 menit
LENGTH OF PILE	: 12 + 12 + 12	HAMMER MODEL NO.	: Drop Hammer.
DIMENSION	: Ø 600 mm	SERIAL NO.	: D. 63
CASTING - DATE	: 19/8/14 5/14 9/14	TOTAL WEIGHT	: 9500 kg
TOTAL NO. OF BLOWS	: 1108	PISTON WEIGHT	: 6300 kg
PENETRATION DEPTH	: 36 m	MAX. ENERGY	:
FINAL SET	:	RAM STROKE	:
DEPTH OF AUGURING	:	AUGER SIZE	:
DEPTH & TYPE OF SOIL STRATA	GROUND LEVEL ELEVATION :		
COORDINAT	N: 0215.989, E: 2987.506	PILE HEAD ELEVATION	: + 4.715
ACTUAL	N: 0215.819, E: 2987.521	WELDER CODE / NAME	: Agut

M	Blow count	M	Blow count	M	Blow count	M	Blow count
0,0	1	10,0		20,0	393	30,0	790
0,5		10,5	29	20,5	370	30,5	800
1,0		11,0	33	21,0	394	31,0	820
1,5		11,5	39	21,5	415	31,5	840
2,0		12,0	48	22,0	442	32,0	860
2,5	6	12,5	56	22,5	468	32,5	880
3,0		13,0	62	23,0	490	33,0	900
3,5		13,5	80	23,5	510	33,5	923
4,0		14,0	89	24,0	533	34,0	942
4,5		14,5	100	24,5	555	34,5	967
5,0		15,0	120	25,0	574	35,0	991
5,5	15	15,5	140	25,5	591	35,5	109
6,0		16,0	160	26,0	609	36,0	1108
6,5		16,5	180	26,5	630		
7,0		17,0	200	27,0	650		
7,5	21	17,5	220	27,5	670		
8,0		18,0	240	28,0	690		
8,5		18,5	260	28,5	710		
9,0	25	19,0	280	29,0	730		
9,5		19,5	300	29,5	750		
10,0		20,0	321	30,0	770		

REMARKS :

Sub cont.

Prepared by

PT WIKA

Witnessed by
PT. PLN JMK

Witnessed by
PT. PLN UIP

Agut
(.....)

Agut
(.....)

Handin A.
(.....)

Handin
(.....)

STACK

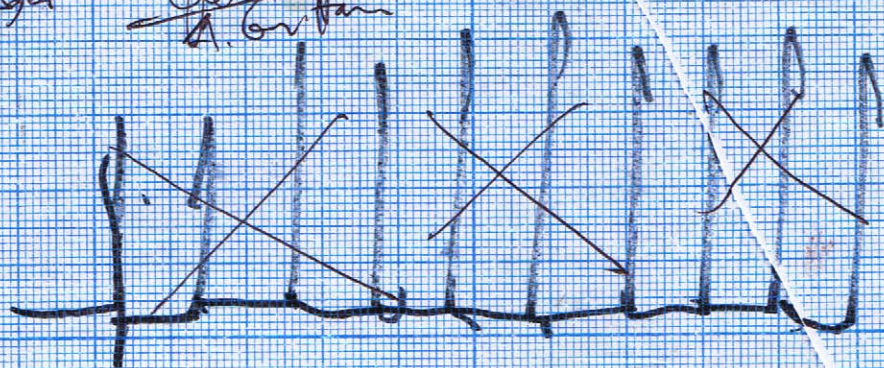
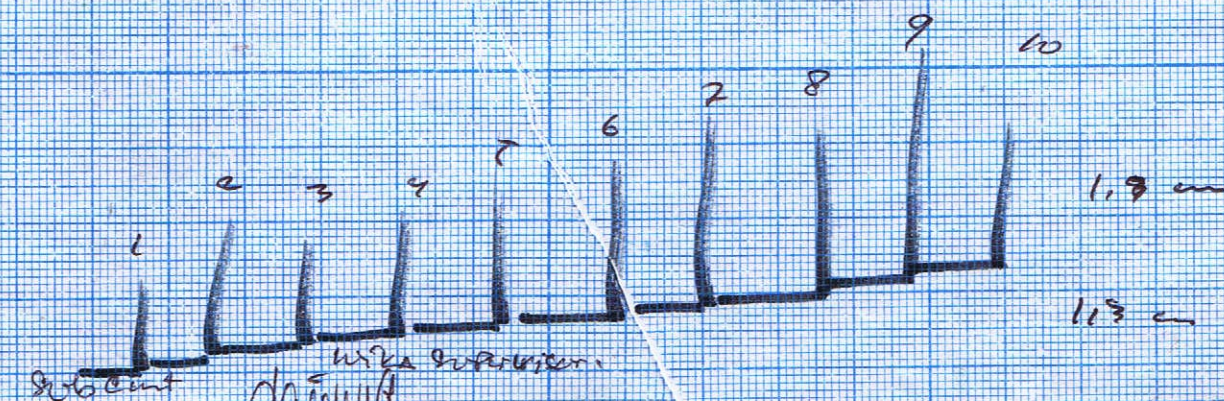
P. 06

F: 1,3 cm

R: 1,8 cm

H: 160 cm

Blow: 1108



Wika 160 cm

Wika 160 cm

Wika 160 cm

PLN.

PLN.



PROYEK PLTU KETAPANG 2X10 MW KALIMANTAN BARAT

INSPECTION RECORD
PILE WORK (DRIVING)

FORM ID: IR - 002

1 Structure:
Foundation: **STACK** ,
Reference Drawing No.

2 Work: Pile Work (Driving)

3 Inspection Items: Driven Pile **P. 07.**

4 Inspection Date & Time:
Day: **06** Month: **11** Year: **2014.** Hour: Minute:

5 Attendant's Name
Name **SUBCON** **WIKI** **PLN JMIK** **PLN**
Signature **ABUS Purnoto**

6 Parameter Inspection :

	Design Value	Actual Measure	Allowable Tolerance	Judgment
Cushion				
Diameter	600 mm	600 mm		
Thickness	100 mm	100 mm	±30mm	
Section of Pile (Bottom)				
Date of Pile production	09/08/14.	09/08/14.	14 days	
Length of Pile	12 m	12 m.		
Diameter of Pile	600 mm	600 mm		
Condition of Pile	Good	Good.		
Concrete Pile Class	A1	A1.		
Section of Pile (Upper)				
Date of Pile production	15/03/14.	15/03/14.	14 days	
Length of Pile	12 m	12 m.		
Diameter of Pile	600 mm	600 mm		
Condition of Pile	Good	Good.		
Concrete Pile Class	A1	A1.		
Section of Pile (Upper)				
Date of Pile production	15/03/14.	15/03/14.	14 days	
Length of Pile	12 m	12 m.		
Diameter of Pile	600 mm	600 mm		
Condition of Pile	Good	Good.		
Concrete Pile Class	A1	A1.		
Setting Out				
Point No.				
Coordinat Pile				
X Coordinate	9213.697.	9213.796.	75 mm	
Y Coordinate	2988.240.	2988.217.	75 mm	
Elevation Ground Surface				
Welding Joint Pile				
Welder Certificate	2G-Pipe	E G		
Electrode Class	RB-26, RD-260, lion 26	LR 52.	equivalent	
Electrode Diameter	3.2 - 4 mm	4 mm.		
Pile Driven Record				
Pile Driven Log	attached			
Final Set Record	attached			
Others				

7 PLN's Comment:

Witnessed



PROYEK PLTU KETAPANG 2X10 MW KALIMANTAN BARAT

PT. WIJAYA KARYA, EPC DEPT.



FACILITY :

PILE NUMBER :

DESIGN LOAD :

Ru ULTIMATE :

LONG TERM :

Ra HILLEY FORMULA :

PILE DRIVING LOG

FORM ID: PDR - 001

PROJECT	: PLTU KETAPANG	DATE	: 6/19
CONTRACTOR	: Wika	STARTING TIME	: 07.00
BLOCK NO	: STACK	ENDING TIME	: 08.27
PILE NO	: P-07	TOTAL DRIVE TIME	: 2700 27 unit.
PILE TYPE	: SPON pile	SPLICE WELDING TIME	: 2 + 20 unit.
LENGTH OF PILE	: 12 + 12 + 12	HAMMER MODEL NO.	: DROP HAMMER
DIMENSION	: 8 600 mm	SERIAL NO.	: D-63
CASTING - DATE	: 9/14 + 15/14 + 15/14	TOTAL WEIGHT	: 9500 kg
TOTAL NO. OF BLOWS	: 1081	PISTON WEIGHT	: 6300 kg
PENETRATION DEPTH	: 36 m	MAX. ENERGY	:
FINAL SET	:	RAM STROKE	:
DEPTH OF AUGURING	:	AUGER SIZE	:
DEPTH & TYPE OF SOIL STRATA	GROUND LEVEL ELEVATION :		
COORDINAT	N: 0213.697. E: 2988.240.	PILE HEAD ELEVATION	: +4.700.
ACTUAL	N: 0213.796. E: 2988.217.	WELDER CODE / NAME	: Agur

M	Blow count	M	Blow count	M	Blow count	M	Blow count
0,0	1	10,0	25	20,0	280	30,0	690
0,5		10,5	30	20,5	300	30,5	70
1,0		11,0	34	21,0	320	31,0	729
1,5		11,5	39	21,5	340	31,5	752
2,0		12,0	45	22,0	360	32,0	775
2,5		12,5	51	22,5	380	32,5	797
3,0		13,0	59	23,0	400	33,0	815
3,5	8	13,5	67	23,5	420	33,5	837
4,0		14,0	78	24,0	440	34,0	860
4,5		14,5	89	24,5	460	34,5	880
5,0		15,0	100	25,0	480	35,0	900
5,5		15,5	115	25,5	500	35,5	957
6,0		16,0	130	26,0	517	36,0	1081
6,5		16,5	145	26,5	538		
7,0	26	17,0	160	27,0	550		
7,5		17,5	175	27,5	570		
8,0		18,0	190	28,0	580		
8,5		18,5	205	28,5	610		
9,0		19,0	220	29,0	630		
9,5	29	19,5	240	29,5	650		
10,0		20,0	260	30,0	670		

REMARKS :

Sub cont.

Prepared by

PT WIKA

Witnessed by
PT. PLN JMKWitnessed by
PT. PLN UIP
(.....)
(.....)
(.....)
(.....)

6/14

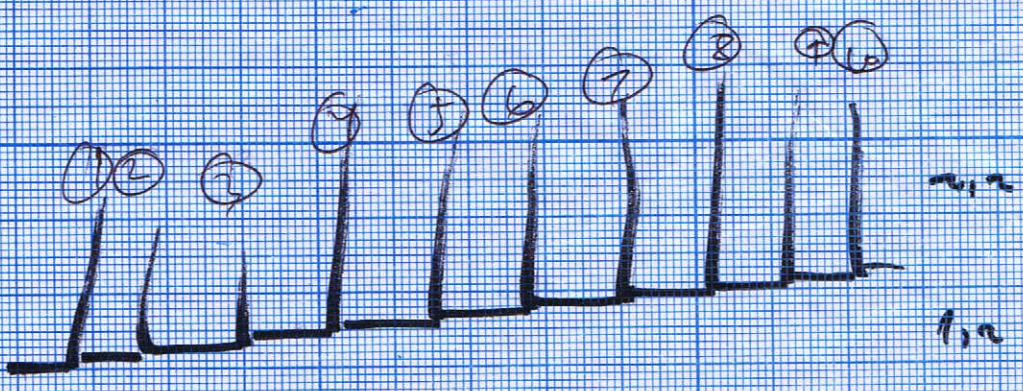
STACK

F: 1.2 cm

R: 2.2 cm

H: 160 cm

Flow: 100 l



Subcom.

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PROYEK PLTU KETAPANG 2X10 MW KALIMANTAN BARAT

INSPECTION RECORD
PILE WORK (DRIVING)

FORM ID: IR - 002

1	Structure: Foundation: 8Tack.	Reference Drawing No.																																																																																																																																																																																							
2	Work:	Pile Work (Driving)																																																																																																																																																																																							
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PROYEK PLTU KETAPANG 2X10 MW KALIMANTAN BARAT
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FACILITY :
PILE NUMBER :
DESIGN LOAD :
Ru ULTIMATE :
LONG TERM :
Ra HILLEY FORMULA :

PILE DRIVING LOG

FORM ID: PDR-001

PROJECT	: PLN Ketapang	DATE	: 6/11/14
CONTRACTOR	: Wika	STARTING TIME	: 08.30
BLOCK NO	: SPACK	ENDING TIME	: 10.00
PILE NO	: P-02	TOTAL DRIVE TIME	: 1 Jam 30 menit.
PILE TYPE	: SPON pile	SPLICE WELDING TIME	: 30 menit + 27 menit
LENGTH OF PILE	: 12 + 12 + 12	HAMMER MODEL NO.	: DROP Hammer.
DIMENSION	: Ø 600 mm	SERIAL NO.	: 0.69
CASTING - DATE	: 19/11/14 + 23/11/14 + 23/11/14	TOTAL WEIGHT	: 9500 kg
TOTAL NO. OF BLOWS	: 967	PISTON WEIGHT	: 6300 kg
PENETRATION DEPTH	: 36 m	MAX. ENERGY	:
FINAL SET	:	RAM STROKE	:
DEPTH OF AUGURING	:	AUGER SIZE	:
DEPTH & TYPE OF SOIL STRATA		GROUND LEVEL ELEVATION	:
COORDINAT	N: 0212.280. E: 2990.190.	PILE HEAD ELEVATION	: +4.702.
ACTUAL	N: 0212.283. E: 2990.094.	WELDER CODE / NAME	: Agus

M	Blow count	M	Blow count	M	Blow count	M	Blow count
0,0	1	10,0		20,0	243	30,0	581
0,5		10,5	34	20,5	260	30,5	607
1,0		11,0	39	21,0	273	31,0	623
1,5		11,5	45	21,5	290	31,5	647
2,0		12,0	52	22,0	304	32,0	666
2,5	8	12,5	61	22,5	319	32,5	683
3,0		13,0	76	23,0	332	33,0	701
3,5		13,5	82	23,5	350	33,5	727
4,0		14,0	76	24,0	369	34,0	750
4,5		14,5	106	24,5	380	34,5	777
5,0	16	15,0	116	25,0	396	35,0	796
5,5		15,5	126	25,5	410	35,5	831
6,0		16,0	136	26,0	124	36,0	962
6,5		16,5	146	26,5	439		
7,0		17,0	156	27,0	458		
7,5		17,5	166	27,5	471		
8,0	23	18,0	178	28,0	487		
8,5	1	18,5	190	28,5	500		
9,0		19,0	203	29,0	520		
9,5		19,5	218	29,5	540		
10,0	29	20,0	231	30,0	563		

REMARKS :

Sub cont.

Prepared by

PT WIKA

Witnessed by
PT. PLN JMK

Witnessed by
PT. PLN UIP

Agus
(.....)

Agus
(.....)

Fandhi A.
(.....)

Danar
(.....)

P: 08

6/11

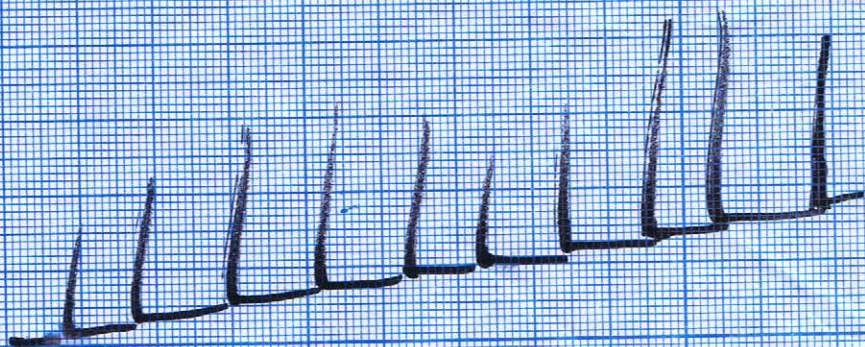
Steck

F: 1.7 cm

R: 2.3 cm

H: 16

Plu: 962



2.3 cm

1.7 cm

Subcont.

[Signature]
2005

Wika Supervisor.

[Signature]
Karkun

Wika Qc.

[Signature]
AGCIS P.

[Signature]

PLN.

[Signature]
2005



PROYEK PLTU KETAPANG 2X10 MW KALIMANTAN BARAT

INSPECTION RECORD
PILE WORK (DRIVING)

FORM ID: IR - 002

1	Structure: Foundation: <u>Stack</u>	Reference Drawing No.																																																																																																																																																																																							
2	Work:	Pile Work (Driving)																																																																																																																																																																																							
3	Inspection Items:	Driven Pile <u>P.09</u>																																																																																																																																																																																							
4	Inspection Date & Time:	Day: <u>06</u> Month: <u>11</u> Year: <u>2014</u> Hour: Minute:																																																																																																																																																																																							
5	Attendant's Name	SUBCONTRACTOR	WIKI	PLN JMK	PLN																																																																																																																																																																																				
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Ra HILLEY FORMULA :

PILE DRIVING LOG

FORM ID: PDR - 001

PROJECT	: PLTU ketapang	DATE	: 6/11/19
CONTRACTOR	: Wika	STARTING TIME	: 19.05
BLOCK NO	: STACK	ENDING TIME	: 11.20
PILE NO	: P-09	TOTAL DRIVE TIME	: 1 Jam 39 menit
PILE TYPE	: SPN pile	SPLICE WELDING TIME	: 30 + 20 menit
LENGTH OF PILE	: 12 + 12 + 12	HAMMER MODEL NO.	: DROP HAMMER
DIMENSION	: Ø 600 mm	SERIAL NO.	: D-63
CASTING - DATE	: 19/11/18 + 13/11/18 + 12/11/18	TOTAL WEIGHT	: 9500 kg
TOTAL NO. OF BLOWS	: 983	PISTON WEIGHT	: 6700 kg
PENETRATION DEPTH	: 36 m	MAX. ENERGY	:
FINAL SET	:	RAM STROKE	:
DEPTH OF AUGURING	:	AUGER SIZE	:
DEPTH & TYPE OF SOIL STRATA	:	GROUND LEVEL ELEVATION	:
COORDINAT N: 9212.280. E: 2992.600.		PILE HEAD ELEVATION	: +4.719.
ACTUAL N: 9212.227. E: 2992.554.		WELDER CODE / NAME	: Agus

M	Blow count	M	Blow count	M	Blow count	M	Blow count
0,0	1	10,0	-	20,0	295	30,0	600
0,5		10,5	35	20,5	270	30,5	623
1,0		11,0	41	21,0	285	31,0	646
1,5		11,5	49	21,5	300	31,5	669
2,0		12,0	58	22,0	315	32,0	695
2,5		12,5	67	22,5	330	32,5	720
3,0	8	13,0	76	23,0	345	33,0	745
3,5		13,5	85	23,5	360	33,5	769
4,0		14,0	94	24,0	375	34,0	790
4,5		14,5	103	24,5	390	34,5	818
5,0		15,0	114	25,0	408	35,0	843
5,5	16	15,5	125	25,5	423	35,5	870
6,0		16,0	136	26,0	440	36,0	987
6,5		16,5	147	26,5	458		
7,0		17,0	158	27,0	473		
7,5		17,5	169	27,5	491		
8,0	22	18,0	180	28,0	511		
8,5		18,5	195	28,5	525		
9,0		19,0	210	29,0	546		
9,5		19,5	225	29,5	568		
10,0	29	20,0	240	30,0	583		

REMARKS :
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Sub cont. Prepared by PT WIKA

Witnessed by PT. PLN JMK

Witnessed by PT. PLN UIP

(*Agus*)

(*Agus*)

(*Fardin A.*)

(*Agus*)

6/11/14

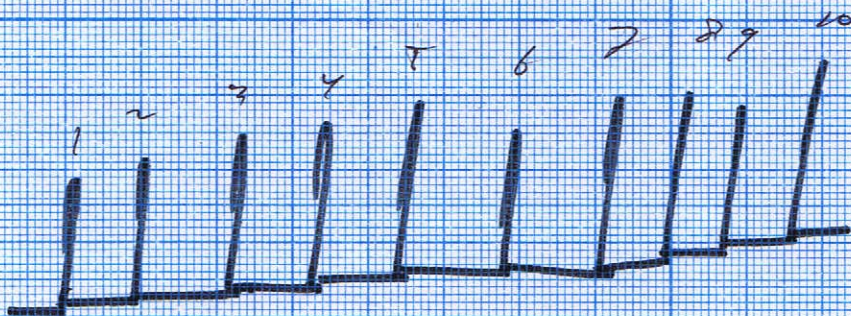
STACK
P: 09

F = 1.1 cm

R = 2.4 cm

H = 170 cm

Blow = 783



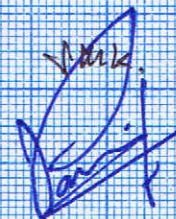
2.4 cm

1.1 cm

Sub Cont.

Wika Supervisor

Wika Qc.



PLN.

Dray
Cane

1/1/14
Sgt

A. C. P.

A. C. P.



PROYEK PLTU KETAPANG 2X10 MW KALIMANTAN BARAT

INSPECTION RECORD
PILE WORK (DRIVING)

FORM ID: IR - 002

1	Structure: Foundation: <u>8400k.</u>	Reference Drawing No.																																																																																																																																																																																												
2	Work:	Pile Work (Driving)																																																																																																																																																																																												
3	Inspection Items:	Driven Pile <u>P. 10.</u>																																																																																																																																																																																												
4	Inspection Date & Time:	Day: <u>06</u> Month: <u>11</u> Year: <u>2014.</u> Hour: Minute:																																																																																																																																																																																												
5	Attendant's Name	<table border="1"><thead><tr><th>Name</th><th>SUBCQNT</th><th>WIKA</th><th>PLN JMK</th><th>PLN</th></tr></thead><tbody><tr><td><u>[Signature]</u></td><td><u>[Signature]</u></td><td><u>[Signature]</u></td><td><u>[Signature]</u></td><td><u>[Signature]</u></td></tr><tr><td>Signature</td><td><u>[Signature]</u></td><td><u>[Signature]</u></td><td><u>[Signature]</u></td><td><u>[Signature]</u></td></tr></tbody></table>				Name	SUBCQNT	WIKA	PLN JMK	PLN	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>	Signature	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>																																																																																																																																																																										
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6	Parameter Inspection :	<table border="1"><thead><tr><th></th><th>Design Value</th><th>Actual Measure</th><th>Allowable Tolerance</th><th>Judgment</th></tr></thead><tbody><tr><td colspan="5">Cushion</td></tr><tr><td>Diameter</td><td>600 mm</td><td><u>600 mm.</u></td><td></td><td></td></tr><tr><td>Thickness</td><td>100 mm</td><td><u>100 mm.</u></td><td>±30mm</td><td></td></tr><tr><td colspan="5">Section of Pile (Bottom)</td></tr><tr><td>Date of Pile production</td><td><u>15/08/14.</u></td><td><u>15/08/14.</u></td><td>14 days</td><td></td></tr><tr><td>Length of Pile</td><td>12 m</td><td><u>12 m.</u></td><td></td><td></td></tr><tr><td>Diameter of Pile</td><td>600 mm</td><td><u>600 mm.</u></td><td></td><td></td></tr><tr><td>Condition of Pile</td><td>Good</td><td><u>Good.</u></td><td></td><td></td></tr><tr><td>Concrete Pile Class</td><td>A1</td><td><u>A1.</u></td><td></td><td></td></tr><tr><td colspan="5">Section of Pile (Upper)</td></tr><tr><td>Date of Pile production</td><td><u>13/03/14.</u></td><td><u>13/03/14.</u></td><td>14 days</td><td></td></tr><tr><td>Length of Pile</td><td>12 m</td><td><u>12 m.</u></td><td></td><td></td></tr><tr><td>Diameter of Pile</td><td>600 mm</td><td><u>600 mm.</u></td><td></td><td></td></tr><tr><td>Condition of Pile</td><td>Good</td><td><u>Good.</u></td><td></td><td></td></tr><tr><td>Concrete Pile Class</td><td>A1</td><td><u>A1.</u></td><td></td><td></td></tr><tr><td colspan="5">Section of Pile (Upper)</td></tr><tr><td>Date of Pile production</td><td><u>13/03/14.</u></td><td><u>13/03/14.</u></td><td>14 days</td><td></td></tr><tr><td>Length of Pile</td><td>12 m</td><td><u>12 m.</u></td><td></td><td></td></tr><tr><td>Diameter of Pile</td><td>600 mm</td><td><u>600 mm.</u></td><td></td><td></td></tr><tr><td>Condition of Pile</td><td>Good</td><td><u>Good.</u></td><td></td><td></td></tr><tr><td>Concrete Pile Class</td><td>A1</td><td><u>A1.</u></td><td></td><td></td></tr><tr><td colspan="5">Setting Out</td></tr><tr><td>Point No.</td><td></td><td></td><td></td><td></td></tr><tr><td>Coordinat Pile</td><td></td><td></td><td></td><td></td></tr><tr><td>X Coordinate</td><td><u>9213.697.</u></td><td><u>9213.674.</u></td><td>75 mm</td><td></td></tr><tr><td>Y Coordinate</td><td><u>2994.550</u></td><td><u>2994.562.</u></td><td>75 mm</td><td></td></tr><tr><td>Elevation Ground Surface</td><td></td><td></td><td></td><td></td></tr><tr><td colspan="5">Welding Joint Pile</td></tr><tr><td>Welder Certificate</td><td>2G-Pipe</td><td><u>6 G</u></td><td></td><td></td></tr><tr><td>Electrode Class</td><td>RB-26, RD-260, lion 26</td><td><u>LB 52.</u></td><td>equivalent</td><td></td></tr><tr><td>Electrode Diameter</td><td>3.2 - 4 mm</td><td><u>4mm.</u></td><td></td><td></td></tr><tr><td colspan="5">Pile Driven Record</td></tr><tr><td>Pile Driven Log</td><td>attached</td><td></td><td></td><td></td></tr><tr><td>Final Set Record</td><td>attached</td><td></td><td></td><td></td></tr><tr><td colspan="5">Others</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>					Design Value	Actual Measure	Allowable Tolerance	Judgment	Cushion					Diameter	600 mm	<u>600 mm.</u>			Thickness	100 mm	<u>100 mm.</u>	±30mm		Section of Pile (Bottom)					Date of Pile production	<u>15/08/14.</u>	<u>15/08/14.</u>	14 days		Length of Pile	12 m	<u>12 m.</u>			Diameter of Pile	600 mm	<u>600 mm.</u>			Condition of Pile	Good	<u>Good.</u>			Concrete Pile Class	A1	<u>A1.</u>			Section of Pile (Upper)					Date of Pile production	<u>13/03/14.</u>	<u>13/03/14.</u>	14 days		Length of Pile	12 m	<u>12 m.</u>			Diameter of Pile	600 mm	<u>600 mm.</u>			Condition of Pile	Good	<u>Good.</u>			Concrete Pile Class	A1	<u>A1.</u>			Section of Pile (Upper)					Date of Pile production	<u>13/03/14.</u>	<u>13/03/14.</u>	14 days		Length of Pile	12 m	<u>12 m.</u>			Diameter of Pile	600 mm	<u>600 mm.</u>			Condition of Pile	Good	<u>Good.</u>			Concrete Pile Class	A1	<u>A1.</u>			Setting Out					Point No.					Coordinat Pile					X Coordinate	<u>9213.697.</u>	<u>9213.674.</u>	75 mm		Y Coordinate	<u>2994.550</u>	<u>2994.562.</u>	75 mm		Elevation Ground Surface					Welding Joint Pile					Welder Certificate	2G-Pipe	<u>6 G</u>			Electrode Class	RB-26, RD-260, lion 26	<u>LB 52.</u>	equivalent		Electrode Diameter	3.2 - 4 mm	<u>4mm.</u>			Pile Driven Record					Pile Driven Log	attached				Final Set Record	attached				Others									
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Witnessed



PROYEK PLTU KETAPANG 2X10 MW KALIMANTAN BARAT,
PT. WIJAYA KARYA, EPC DEPT.



FACILITY :
PILE NUMBER :
DESIGN LOAD :
Ru ULTIMATE :
LONG TERM :
Ra HILLEY FORMULA :

PILE DRIVING LOG

FORM ID: PDR - 001

PROJECT	: pltu ketapang	DATE	: 6/11
CONTRACTOR	: Wika	STARTING TIME	: 13.30
BLOCK NO	: Stack	ENDING TIME	: 15.00
PILE NO	: P:10	TOTAL DRIVE TIME	: 11 am 20 min
PILE TYPE	: Spun pile	SPLICE WELDING TIME	: 30 + 27 min
LENGTH OF PILE	: 12 + 12 + 2	HAMMER MODEL NO.	: Drop Hammer
DIMENSION	: Ø 600 mm	SERIAL NO.	: D-67
CASTING - DATE	: 18/11 + 13/11 + 13/11	TOTAL WEIGHT	: 9500 kg
TOTAL NO. OF BLOWS	: 981	PISTON WEIGHT	: 6300 kg
PENETRATION DEPTH	: 36 m	MAX. ENERGY	:
FINAL SET	:	RAM STROKE	:
DEPTH OF AUGURING	:	AUGER SIZE	:
DEPTH & TYPE OF SOIL STRATA	:	GROUND LEVEL ELEVATION	:
COORDINAT N: 0213.697. E: 2994.560.		PILE HEAD ELEVATION	: + 4.706.
ACTUAL N: 0213.674. E: 2994.562.		WELDER CODE / NAME	: Agus

M	Blow count	M	Blow count	M	Blow count	M	Blow count
0,0	1	10,0		20,0	250	30,0	660
0,5		10,5	37	20,5	265	30,5	680
1,0		11,0	39	21,0	280	31,0	680
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2,0		12,0	51	22,0	310	32,0	740
2,5		12,5	58	22,5	325	32,5	760
3,0	9	13,0	67	23,0	341	33,0	787
3,5		13,5	77	23,5	357	33,5	807
4,0		14,0	87	24,0	380	34,0	829
4,5		14,5	92	24,5	400	34,5	850
5,0		15,0	107	25,0	420	35,0	875
5,5		15,5	117	25,5	440	35,5	898
6,0		16,0	127	26,0	460	36,0	981
6,5	18	16,5	139	26,5	480		
7,0		17,0	151	27,0	500		
7,5		17,5	163	27,5	520		
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8,5		18,5	190	28,5	560		
9,0	28	19,0	205	29,0	580		
9,5		19,5	220	29,5	600		
10,0		20,0	235	30,0	620		

REMARKS :

Sub cont. Prepared by

PT WIKA

Witnessed by
PT. PLN JMK

Witnessed by
PT. PLN UIP

(.....)

(.....)

(.....)

(.....)

6/14/10

STACK

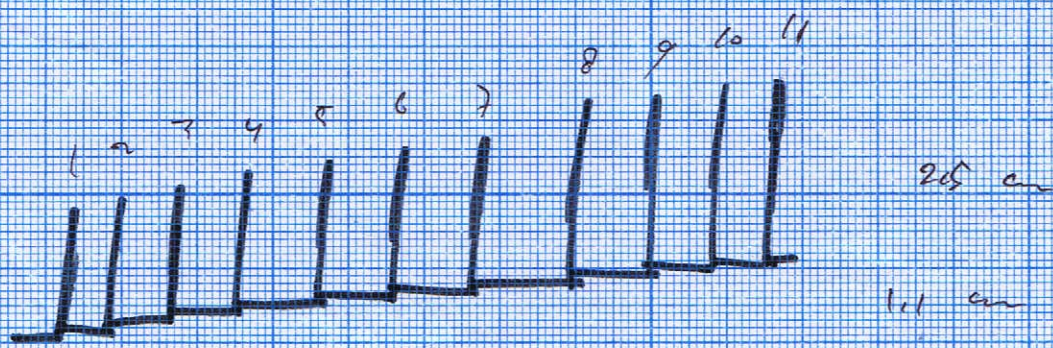
P: 10

$f = 61 \text{ cm}$

$R = 205 \text{ cm}$

$H = 160 \text{ cm}$

Blow = 981



Subcont.

[Signature]
Rino
mor

Wika Supervisor.

[Signature]
A. C. Pan

Wika Co.

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AGUS Prawoto.

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