



Worker Name : BAYU YAHYA CHANDRA
 Position : QC INSPECTOR
 Company (User) : JOB Pertamina-Medco E&P Simenggaris
 Contract No. : 3510006786
 Working Period : 18 May 2022 - 17 June 2022

Day & Date	Number of Working Day	Work Description
18 May 2022	1	• Field supervision for E&I at South Sembakung Development Project (Site Simenggaris)
19 May 2022	2	• Field supervision for E&I at South Sembakung Development Project (Site Simenggaris)
20 May 2022	3	• Field supervision for E&I at South Sembakung Development Project (Site Simenggaris)
21 May 2022	4	• Field supervision for E&I at South Sembakung Development Project (Site Simenggaris)
22 May 2022	5	• Field supervision for E&I at South Sembakung Development Project (Site Simenggaris)
23 May 2022	6	• Field supervision for E&I at South Sembakung Development Project (Site Simenggaris)
24 May 2022	7	• Field supervision for E&I at South Sembakung Development Project (Site Simenggaris)
25 May 2022	8	• Field supervision for E&I at South Sembakung Development Project (Site Simenggaris)
26 May 2022		Travelling from Tarakan to Jakarta
27 May 2022		Off Day
28 May 2022		Off Day
29 May 2022		Off Day
30 May 2022	9	Inspection spare part for analyzer transmitter (revitalization) at PT Karya Energi Indonesia, Business Par Kebun Jeruk - Jakarta Barat
31 May 2022		Off Day
01 June 2022		Off Day
02 June 2022		Off Day
03 June 2022	10	FAT transfer pump at PT duraquipt Cemerlang, Jl Limo Raya No.9 Depok - Jawa Barat
04 June 2022		Off Day
05 June 2022	11	• Travelling from Jakarta to Tarakan
06 June 2022	12	• Field supervision for E&I at South Sembakung Development Project (Site Simenggaris)
07 June 2022	13	• Field supervision for E&I at South Sembakung Development Project (Site Simenggaris)
08 June 2022	14	• Field supervision for E&I at South Sembakung Development Project (Site Simenggaris)
09 June 2022	15	• Field supervision for E&I at South Sembakung Development Project (Site Simenggaris)
10 June 2022	16	• Field supervision for E&I at South Sembakung Development Project (Site Simenggaris)
11 June 2022	17	• Field supervision for E&I at South Sembakung Development Project (Site Simenggaris)
12 June 2022	18	• Field supervision for E&I at South Sembakung Development Project (Site Simenggaris)
13 June 2022	19	• Field supervision for E&I at South Sembakung Development Project (Site Simenggaris)
14 June 2022	20	• Field supervision for E&I at South Sembakung Development Project (Site Simenggaris)
15 June 2022	21	• Field supervision for E&I at South Sembakung Development Project (Site Simenggaris)
16 June 2022	22	• Field supervision for E&I at South Sembakung Development Project (Site Simenggaris)
17 June 2022	23	• Field supervision for E&I at South Sembakung Development Project (Site Simenggaris)

Submitted by:	Acknowledge by :	Approved by :	Checked by :
 Bayu Yahya Chandra 17-Jun-2022 QC Inspector	 Hendri Yanjaya 17-Jun-2022 QA/QC Coordinator	Purnomo Rusdiono Project Control Section Head	PT. Depriwangga

SURAT PERJALANAN DINAS
BUSINESS TRAVEL ORDER

Jakarta, 25 April 2022

No. **SPDS-PRJ-026/III/2022**

Dengan ini Perusahaan menugaskan pegawai/pejabat di bawah ini:
The Company hereby assigns the following employee/official below

Nama/Name : **Bayu Yahya Chandra**
Jabatan/Position : **QC Inspector**
Bagian/Department : **JOB Pertamina–Medco E&P Simenggaris**

Untuk melaksanakan perjalanan dinas keluar kota sbb:
To perform the mission as follows

Dari/From : Jakarta
Tempat Tujuan/Destination : Tarakan – Site Simenggaris
Tanggal Berangkat/Departure date : **10 Mei 2022**
Tanggal Kembali/Date of return : **25 Mei 2022**
Keperluan/Purpose of mission : Mobilisasi dan Demobilisasi
Berkendaraan/Transportation : Perusahaan
Akomodasi/Accommodation : Perusahaan
Pengikut/Accompanied by : -
Dibebankan ke/Charge to : **CCTR A160A40501 - Project**

Keterangan/Note:

Perjalanan Dinas dalam rangka mobilisasi on duty ke Site Simenggaris.

<p>Yang bersangkutan</p>  <p>Bayu Yahya Chandra QC Inspector</p>	<p>Menyetujui,</p>  <p>Akhmad Zamroni Project Development Manager</p>	<p>Mengetahui,</p>  <p>Hendri Yanjaya QA-QC Coordinator</p>
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SURAT PERJALANAN DINAS
BUSINESS TRAVEL ORDER

Jakarta, 20 May 2022

No. SPDS-PRJ-

Dengan ini Perusahaan menugaskan pegawai/pejabat di bawah ini:

The Company hereby assigns the following employee/official below

Nama/Name : **Bayu Yahya Chandra**
Jabatan/Position : **QC Inspector**
Bagian/Department : **JOB Pertamina-Medco E&P Simenggaris**

Untuk melaksanakan perjalanan dinas keluar kota sbb:

To perform the mission as follows

Dari/From : Jakarta
Tempat Tujuan/Destination : Tarakan – Site Simenggaris
Tanggal Berangkat/Departure date : **05 June 2022**
Tanggal Kembali/Date of return : **03 Juli 2022**
Keperluan/Purpose of mission : Mobilisasi dan Demobilisasi
Berkendaraan/Transportation : Perusahaan
Akomodasi/Accommodation : Perusahaan
Pengikut/Accompanied by : -
Dibebankan ke/Charge to : **CCTR A160A40501 - Project**

Keterangan/Note:

Perjalanan Dinas dalam rangka mobilisasi on duty ke Site Simenggaris.

<p>Yang bersangkutan</p>  <p>Bayu Yahya Chandra QC Inspector</p>	<p>Menyetujui,</p>  <p><i>Akhmad Zamroni</i> Ditandatangani elektronik: Akhmad Zamroni 23-05-2022 12:36:30 WIB Akhmad Zamroni Project Development Manager</p>	<p>Mengetahui,</p>  <p>Hendri Yanjaya QA-QC Coordinator</p>
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DEPRIWANGA
TECHNICAL INSPECTION & CERTIFICATION SERVICES
SURAT PERMINTAAN KERJA LEMBUR

No. : /DW/...../...../2021

Kepada Medco Job Simenggaris

Mengharap bantuan Saudara untuk menugaskan :

Nama : Bayu Yahya Chandra
No.ID Card :
Bagian / Penempatan : QA/QC Inspector

Untuk melaksanakan kerja lembur :

Hari / Tanggal : 30-May-22
Waktu : 8:00 s/d 17:00 Jumlah : 8 Jam
Lokasi : Business Park Kebun Jeruk, Jakarta Barat
Pekerjaan Yang Dilembur : Inspeksi spare part for analyzer transmitter (revitalization) at PT Karya Energi Indonesia

Jakarta, 27 May 2022

Submitted
QA/QC Coordinator

Hendri Yanjaya

Acknowledge
Project Control Head



Pu

Ditandatangani elektronik:
Purandito Rusdiono
01-06-2022
21:06:07 WIB

Approved
Project Manager



Akhi

Ditandatangani elektronik:
Akhnas Zamroni
02-06-2022
13:51:21 WIB

Tanggal : Jakarta, 27 Mei 2022

PO No. : **21303-PO-SMN-MEP-000114 Spare Part for Analyzer Transmitter (Revitalization)**

Kepada : **JOB Pertamina - Medco E&P Simenggaris**
The Energy Building, 26th Floor
SCBD Lot 11A, Jl. Jend. Sudirman, Jakarta Selatan, Indonesia. 12190

UP : **Bp. Hendri Yanjaya**
QA QC Coordinator – JOB Simenggaris

Perihal : Undangan Inspeksi Spare Part for Analyzer Transmitter (Revitalization)

Dengan hormat,

Sehubungan dengan rencana pelaksanaan Witness “*Spare Part for Analyzer Transmitter (Revitalization)*” maka dengan ini kami mengundang personel perwakilan PERUSAHAAN untuk menyaksikan pelaksanaan agenda tersebut diatas, dengan rincian sebagai berikut:

Hari, Tanggal : Senin, 30 Mei 2022
Waktu : 10.00 - Selesai
Tempat : PT. Karya Energi Indonesia
Business Park Kebon Jeruk,
Jl. Meruya Ilir Blok C2 No.6
Kav. 88 Jakarta Barat 11620

Agenda : Inspeksi Spare Part for Analyzer Transmitter (Revitalization)
- Type 6 Membrane Kit
- Assy, AURORA HMI/DISPLAY LABEL

MEI's PIC : Ahmad (0819-9920-6315)

Demikian Undangan ini kami sampaikan, atas perhatian dan kehadirannya kami ucapkan terima kasih.

Hormat kami,



Sekar Putri P.
QA QC Engineer



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ELANG INDAH**
Engineering and Construction

Committed & Reliable



Tanggal : Jakarta, 27 Mei 2022

PO No. : 21303-PO-SMN-MEP-000001 Condensate Transfer Pump PT. Duraquipt Cemerlang

Kepada : **JOB Pertamina - Medco E&P Simenggaris**
The Energy Building, 26th Floor
SCBD Lot 11A, Jl. Jend. Sudirman, Jakarta Selatan, Indonesia. 12190

UP : **Bp. Hendri Yanjaya**
QA QC Coordinator – JOB Simenggaris

Perihal : Undangan Witness *FAT Condensate Transfer Pump*

Dengan hormat,

Sehubungan dengan rencana pelaksanaan Witness “*FAT Condensate Transfer Pump*” maka dengan ini kami mengundang personel perwakilan PERUSAHAAN untuk menyaksikan pelaksanaan agenda tersebut diatas, dengan rincian sebagai berikut:

Hari, Tanggal : Jumat, 3 Juni 2022

Waktu : 09.30 - Selesai

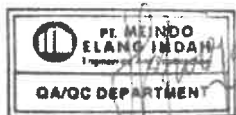
Tempat : PT. Duraquipt Cemerlang
Jl. Limo Raya No. 9
Kecamatan Limo. Kota Depok
Jawa barat 16515

Agenda : Performance Test (ITP Line 5.1)
Mechanical Run Test (ITP Line 5.2)
Tag No. SMN-PBA-331

MEI's PIC : Amri (0821-9882-8447)

Demikian Undangan ini kami sampaikan, atas perhatian dan kehadirannya kami ucapkan terima kasih.

Hormat kami,



Sekar Putri P.
QA QC Engineer



**JOINT OPERATING BODY
PERTAMINA MEDCO E&P SIMENGGARIS
DAILY REPORT QA/QC**

Report No: MEI-KEI-01
PO No.: 21303-PO-SMN-MEP-000114
Contractor : PT. Meindo Elang Indah
Supplier: PT. Karya Energi Indonesia
Location: Business Park Kebon Jeruk, Jakarta Barat
Equipment: Spare part for analyzer transmitter (revitalization)
Date of inspection : 30-May-2022
Next inspection schedule : N/A

Detail of Inspection Activity :

1. Visual & Quantity check

Sample Photograph Records :



Membran Genie Filter, Part#101-506 (2 EA)



Assy Aurora HMI/Display (1 EA)



Filter Coalescer Assembly ; 5000 PSIG, 316SS, 0.1 Micron, 1/4" Compression Fittings





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MINUTES OF MEETING INSPECTION PT MEINDO ELANG

PO Number : 21303-PO-SMN-MEP-000114

Item : Spare part for Analyzer Transmitter

Minutes Of Meeting Recap :

Date : 30 / 05 / 2022

No	SUBJECT ITEM	DESCRIPTION OF DISCUSSION	PIC/Source	Action/Output of MOM
1.	1	Spare part for analyzer transmitter < revitalization >. - Type 6 membran test < contain 5 membran and 5 flow restrictor > ORing PN 101 505		
2.	2.	Assy aurora HMI / Dxp / labeled PN 705-1217 02.		
3.	3	Dec COO dan COE.		
4.				
5.				
6.				

1. PT. KEI :  AUG-S.

2. PT MEI


Ahmad

3. JOB - PNEPS 
BAYU X-C

-- End of MOM --

SURABAYA
Jl. Sekeloa Timur 104 A 301 20
Surabaya 60174
Phone +62 31 545 8590
Fax +62 31 545 3527

JAKARTA
Suparejo Park, PO Box 1000
Jl. Merdeka di Blok C2 No. 5 Blok B2 Jakarta Barat 11030
Phone +62 21 6980 1581
Fax +62 21 6980 1447

BALIKPAPAN
Jalan Balikpapan Raya No. 5
P. Jend. Sudirman Balikpapan Kalimantan Timur 75111
Phone +62 542 7384 43
Fax +62 542 7384 05



30/05/2022

Daftar Hadir Inspeksi Barang

No PO:

- 21239-PO-JAWA1-MEP-000208

- 21303-PO-SMN-MEP-000114

No	Tanggal	Nama	Perusahaan	No Telepon / HP	Email
	30/05/2022	Alif Suryanto	PT. Karya Energi	085707062487	alif@karya-energi.com
	30/05/2022	BAYU YAHYA CHANDRA	JOB - RNEPS	081314998127	bayuchandra29@gmail.com
	30/05/2022	Ahmad Shalehuddin	PT MET	081999206315	Ahmad.Shalehuddin@gmail.com ahmad.shalehuddin@gmail.com

PT Karya Energi Indonesia

Alif S.

PT Meindo Elang Indah

Alif Mead



DEPRIWANGGA
TECHNICAL INSPECTION & CERTIFICATION SERVICES
SURAT PERMINTAAN KERJA LEMBUR

No. : /DW/...../...../2021

Kepada Medco Job Simenggaris

Mengharap bantuan Saudara untuk menugaskan :

Nama : Bayu Yahya Chandra
No.ID Card :
Bagian / Penempatan : QA/QC Inspector

Untuk melaksanakan kerja lembur :

Hari / Tanggal : 3-Jun-22
Waktu : 8:00 s/d 17:00 Jumlah : 8 Jam
Lokasi : Depok - Jawa Barat
Pekerjaan Yang Dilem : FAT Condensate Transfer Pump at PT Duraquipt Cemerlang, Jl Limo Raya No.9, Depok- Jawa Barat

Jakarta, 27 May 2022

Submitted
QA/QC Coordinator

Hendri vaniaya

Acknowledge
Project Control Head



Pui

Ditandatangani elektronik:
Purnomo Rusdiono
30-05-2022
14:52:25 WIB

Approved
Project Manager



Akt

Ditandatangani elektronik:
Akhmad Zamroni
31-05-2022
06:49:03 WIB

PT. DURAQUIPT CEMERLANG

YOUR TRUSTED PARTNER IN INDUSTRIAL PUMP & VALVE SOLUTION

Jl. Limo Raya No. 9, Limo, Depok

West Java, Indonesia

Email : ptdqc@cbn.net.id, Website: www.ptdqc.com

ATTENDEES LIST

DATE : 3 Juni 2022
TIME : 0.30 - selesai
VENUE : Meeting room H-1
SUBJECT : FAT

[illegible]



PT. DURAQUIPT CEMERLANG

YOUR TRUSTED PARTNER IN INDUSTRIAL PUMP SOLUTIONS

Jl. Raya Limo No. 9, Ds. Limo, Depok 16515, Jawa Barat – INDONESIA

Phone (62-21) 7535559, Fax (62-21) 7536031, Website : www.ptdqc.com



MINUTES OF MEETING

Subject	FAT Condensate Pump PO 21303-PO-SMN-MEP-000001 Duraquipt			
Date	3 Juni 2022			
Attendance	Name	Sign	Name	Sign
	BAYU YAHYA C.			
	M. Yandhy			
	Tbau Drajat			
	Amir Usman			
	Angga Prastianan			

No.	Item Discussion	Action By	Due Date	Status
1	FAT pompa yang meliputi visual & dimensional check, performance test dan Mech Run Test sudah dilakukan dengan hasil terlampir			Info
2	Punch list FAT yang harus diselesaikan sebelum pengiriman <ul style="list-style-type: none">- Nameplate pompa & nameplate package- Oiler belum terpasang- Rotation arrow pompa belum terpasang- Coupling guard (permanent) belum terpasang- Nut mounting pompa dan motor masih menggunakan temporary- Pump drain belum terpasang- Dokumen plan system 75 agar dilampirkan dalam MDR- Touch up painting	Duraquipt	8-Jun-22	
3	Pump curve versi lemigas dengan SG 0.8 agar dimunculkan Kembali di dalam dokumen pump performance curve SMN-V-DQC-M-DS-00-002 dengan menambahkan informasi NPSH margin	Duraquipt	6-Jun-22	
4	JOB meminta supaya Duraquipt memastikan item NPSHR pompa dilakukan pengetesan sehingga nilai nya sesuai dengan yang tercantum dalam			

Authorized Service Provider for:

- CLYDE UNION – API/ANSI Pumps
- DURA – ANSI/ ASME Process Pumps
- PEERLESS – Firewater Pump Packager Specialist



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Jl. Limo Raya No. 9, Ds. Limo, Depok 16515, Jawa Barat - INDONESIA

Phone (62-21) 7535559, Fax (62-21) 7536031, Website : www.ptdqc.com



BERITA ACARA FAT POMPA (PERALATAN PUTAR)

Pada tanggal Tiga Juni Dua Ribu Dua Puluh Dua telah dilakukan pemeriksaan teknis dan FAT terhadap satu (1) unit pompa sentrifugal (API Pump) untuk disupply ke PT. Meindo Elang Indah (untuk kemudian digunakan oleh JOB PERTAMINA MEDCO E&P SIMENGGARINS sebagai end user) sesuai dengan kontrak PO nomor 21303-PO-SMN-MEP-000001 yang dilakukan di PT Duraquipt Cemerlang Jl. Limo Raya No.9, Depok, sesuai data pompa sebagai berikut

1. Tag No : SMN-PBA-331
Name : Condensate Transfer Pump

Pemeriksaan dan pengujian yang dilakukan adalah sebagai berikut :

1. Penelaahan dokumen teknis peralatan, antara lain :
 - a. FAT Procedure
 - b. Datasheet Pompa
 - c. Sertifikat kalibrasi peralatan ukur
2. Verifikasi dan pemeriksaan fisik/visual peralatan
 - a. Performance Test
 - b. Mechanical Running Test
3. Hasil pengujian telah dilakukan dengan hasil sudah sesuai dan diterima seperti terlampir.

Demikian Berita Acara ini dibuat agar dapat digunakan sebagai mana mestinya.

Depok, 3 Juni 2022

PT. Duraquipt Cemerlang	PT Meindo Elang Indah	JOB PERTAMINA MEDCO E&P SIMENGGARIS	PT. Radiant Utama Interinsco tbk.	Ditjen Migas
	Amir Ismail	BATU YAHYA C.	Angga Prastianan	
Melakukan	Menyaksikan	Menyaksikan	Menyaksikan	Menyaksikan



**JOINT OPERATING BODY
PERTAMINA MEDCO E&P SIMENGGARIS
DAILY REPORT QA/QC**

Report No: MEI-DQC-01
PO No.: 21303-PO-SMN-MEP-000001
Contractor : PT. Meindo Elang Indah
Supplier: PT. Duraquipt Cemerlang
Location: Jl. Limo Raya No.9, Depok – Jawa Barat
Equipment: Condensate Transfer Pump (Tag No. SMN-PBA-331)
Date of inspection : 3-June-2022
Next inspection schedule : TBA

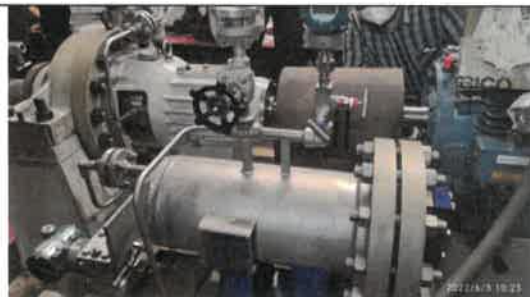
Detail of Inspection Activity :

1. Visual & Dimension Check
2. Performance Test
3. Mechanical Run Test (4 hours)

Sample Photograph Records :



Skid of Condensate Transfer Pump



Plan System 75



Name Plate Motors



Mechanical Run Test on Flow Rated 140 GPM



Discharge Pressure (Psi) on on Flow Rated 140 GPM



Suction Pressure (Psi) on on Flow Rated 140 GPM



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**FACTORY - MECHANICAL RUN TEST
QH2 PUMP**

QUALITY ASSURANCE DEPT.

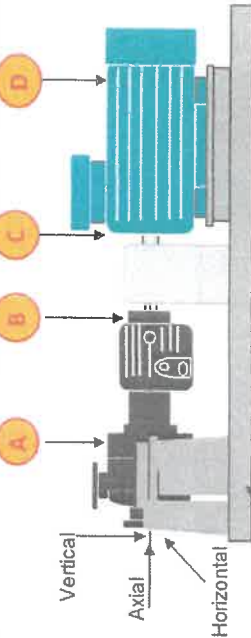


PUMP DATA				PUMP MANUF.				IMPELLER DIA			
CUSTOMER				JOB PERTAMINA - MEDCO E&P SIMENGGAIRIS				DURA PUMP			
PROJECT				SOUTH SEMBAKUNG GAS PLANT				ATC J1.5X13			
PO No.				21303-PO-SMN-MEP-00001				368			
SO No.				21700278				140			
TAG No.				SMN-PBA-331				221010			
PUMP S/N				221010				2980			
PUMP EFFICIENCY				38.7 %				307.00			
Shut Off Head				440 FT				440			
Power				32.90 HP				32.90			
RPM				2980				2980			
PUMP S/N				221010				221010			
Phase				3				51.9			
Voltage				400				92.40%			
PF				0.89				3G1F2152808409			
Serial no.				0.89				3G1F2152808409			

MECHANICAL RUN TEST RECORD

No	Time	Flow (GPM)	Pump Speed (Rpm)	Disch Press (Psi)	Suction Press (Psi)	Diff Head (FT)	Elevation (FT)	Diff VelocityH ead (FT)	* Total Head (FT)	Motor Amp.	Voltage (V)	Motor PF	Liquid Power (HP)	Shaft Power (HP)	Pump Efficiency (%)	Temperature (°C)						Ambient (°C)	
																Pump			Motor				
																DE	NDE	Centre	DE	NDE	Centre	DE	NDE
1	11.25	140.1	2960	164	4.6	368.2	0.30	0.00	368.51	42.3	380	0.89	13.0	30.7	42.5	53.8	39.8	66.3	34.4	36.1	30.5	36.1	
2	11.55	140.2	2962	164	4.6	368.2	0.30	0.00	368.51	42.4	380	0.89	13.0	30.8	42.4	56.7	43.5	69.9	49.0	37.8	31.7	37.8	
3	12.25	140.4	2964	164	4.5	368.4	0.30	0.00	368.75	41.9	380	0.89	13.1	30.4	43.0	58.9	46.3	72.7	52.5	39.4	32.8	39.4	
4	12.55	140.2	2964	164	4.5	368.4	0.30	0.00	368.75	42.4	380	0.89	13.1	30.8	42.4	59.8	47.3	73.4	53.7	40	33	40	
5	13.30	140	2950	164	4.5	368.4	0.30	0.00	368.75	43.6	380	0.89	13.0	31.6	41.2	60.1	48.3	73.8	52.1	40.5	32.9	40.5	
6	14.00	140	2960	164	4.3	368.9	0.30	0.00	369.21	43.7	380	0.89	13.1	31.7	41.2	60.7	48	73.2	54.4	40.6	32.8	40.6	

* Note : Total Head = Diff Head + Elevation (Elv. Disch pres to pump centre) + Diff velocity head



VIBRATION RECORD (mm/s)

FLOW (M3/Hr)	A		B		C		D		Sound Level	
	H	V	H	V	H	V	H	V	A	B
140.1	0.52	0.47	0.68	0.93	1.01	0.32	1.32	1.00	80.4	80.3
140.2	0.56	0.54	0.69	0.95	1.03	0.54	1.41	0.80	80.1	80.4
140.4	0.58	0.52	0.98	0.98	1.09	1.25	0.98	1.03	80.6	80.4
140.2	0.56	0.49	0.91	0.91	0.97	0.52	1.29	1.02	80.9	79.9
140	0.47	0.54	0.86	0.86	1.02	0.35	1.18	0.78	81.2	80.3
140	0.52	0.52	0.85	0.85	0.98	1.35	1.32	1.00	80.9	80.3

Tested By: [Signature]
Witness By: [Signature]

Sound Level	
C	D
78.8	79.2
78.8	79.1
80.4	79.8
79.2	80.0
80.2	80.4
79.2	80.6

Sound level meter

Dinasw/Erwan
Date: 3 June '22
Arnel L. Ibaou Orqueza M. Ibaou
03-6-22
03/06/22
Batu Y.C.
03/06/22
Angela P.



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FACTORY - PERFORMANCE TEST
OH2 PUMP
QUALITY ASSURANCE DEPT.



PUMP DATA					
CUSTOMER	JOB PERTAMINA - MEDCO E&P SIMENGGARIS	PUMP MANUF.	DURA PUMP		
PROJECT	SOUTH SEMBAKUNG GAS PLANT	MODEL / SIZE	ATC J1.5X13		
PO No.	21303-PO-SMN-MEP-00001	TOTAL HEAD (FT)	368		
SO No.	21700278	FLOW RATE (GPM)	140		
TAG No.	SMN-PBA-331	PUMP SN	221010		
IMPELLER DIA				307.00	
PUMP EFFICIENCY				38.7 %	
Shut Off Head				440 FT	
Power				32.90 HP	
MOTOR DATA					
Brand	ABB <th>Power (kW)</th> <td>30<th>Amp</th><td>51.8</td></td>	Power (kW)	30 <th>Amp</th> <td>51.8</td>	Amp	51.8
Frame	M3KP 200MLC <th>Freq. (Hz)</th> <td>50<th>Motor Efficiency</th><td>92.40%</td></td>	Freq. (Hz)	50 <th>Motor Efficiency</th> <td>92.40%</td>	Motor Efficiency	92.40%
Type	INDUCTION <th>Speed (Rpm.)</th> <td>2946<th>PF</th><td>0.89</td></td>	Speed (Rpm.)	2946 <th>PF</th> <td>0.89</td>	PF	0.89
Serial no. 3G1F2152808409					

PUMP PERFORMANCE TEST RECORD																			
No	Time	Flow (GPM)	Pump Speed (Rpm)	Disch Press (Psi)	Suction Press (Psi)	Diff Head (FT)	Elevation (FT)	Diff Velocity Head (FT)	* Total Head (FT)	Motor Amp.	Voltage (V)	Motor PF	Liquid Power (HP)	Shaft Power (HP)	Pump Efficiency (%)	Temperature (oC)			
																Pump		Motor	
																DE	NDE	CENTER	NDE
1	11.18	0	2977	202	5.0	455.1	0.30	0.00	455.37	26	380	0.89	0.0	18.9	0.0	-	-	-	-
2	11.15	28	2974	198	4.9	446.1	0.30	0.38	446.74	29.6	380	0.89	3.2	21.5	14.7	53.1	39.0	66.3	43.8
3	11.09	136.0	2956	187	4.7	374.9	0.30	8.88	384.09	43.3	380	0.89	13.2	31.4	42.0	50.3	36.5	62	43.1
4	10.51	140.5	2969	184	4.8	367.8	0.30	9.48	377.53	43.6	380	0.89	13.4	31.6	42.3	42.4	29.5	50.8	33.9
5	10.58	187	2957	110	4.4	243.9	0.30	16.79	261.02	49.3	380	0.89	12.3	35.8	34.4	47.6	34.4	60.2	39.5

* Note : Total Head = Diff Head + Elevation (Elv. Disch pres to pump centre) + Diff velocity head

VIBRATION RECORD (mm/s)												
FLOW (M3/hr)	A			B			C			Sound Level		
	H	V	A	H	V	A	H	V	A	H	V	A
0												
28	0.37	0.53	0.62	0.84	0.99	0.42	1.26	0.58	1.49	1.30	1.11	1.10
136	0.58	0.54	0.76	0.92	0.98	0.46	1.17	0.39	1.10	1.20	0.63	0.82
140.5	0.58	0.38	0.79	0.90	1.09	0.61	1.14	0.48	1.10	1.14	0.78	0.84
187	0.94	0.82	1.69	1.43	1.88	1.25	1.20	0.52	1.10	1.18	0.90	0.90

Correction to rated speed 2960 rpm				SG 0.8			
No	Pump Speed (Rpm)	Flow (GPM)	Head (FT)	Shaft Power (HP)	Eff (%)		
1	2960	0.0	450.2	14.8	0.0		
2	2960	27.9	442.5	16.9	14.7		
3	2960	136.2	385.1	25.2	42.0		
4	2960	140.1	375.2	25.1	42.3		
5	2960	187.2	261.6	28.7	34.4		

Tested By	Witness By	REMARKS	As per API 610 11th ed at Rated Flow
		ACCEPTED <input checked="" type="checkbox"/>	1. Head tolerance -3% ~ +3% Test result 375.2 FT, Deviation : 2.0%
		REJECTED <input type="checkbox"/>	2. Shut Off Head -8% ~ +8% Test result 450.2 FT, Deviation : 2.3%
			3. Vibration Max 3 mm/s Test Result max 1.88 mm/s RMS
			4. Power + 4% Test result 25.1 HP, Deviation : -23.7%

Donastir Herman		Amell Ibnu D M. Yonhy		BAZU XC	
Date: 3 June '22		03-June-22 05:00-11:03:00-21		03/06/22	

FACTORY - PERFORMANCE TEST
QH2 PUMP

QUALITY ASSURANCE DEPT.

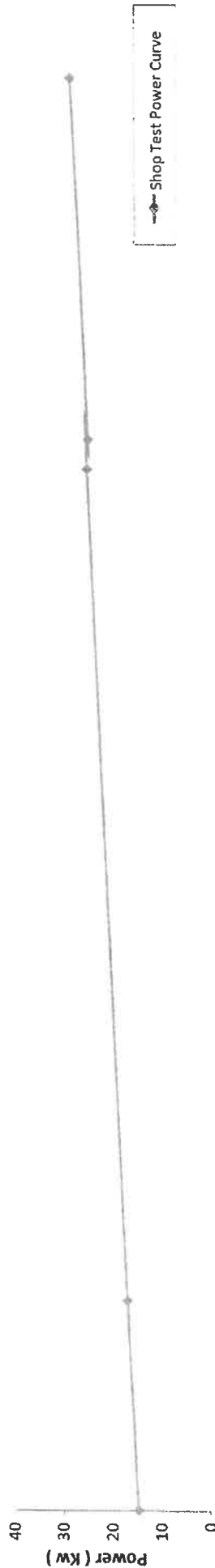
PUMP DATA			
CUSTOMER	JOB PERTAMINA - MEDCO E&P SIMENGGARIS	PUMP MANUF.	DURA PUMP
PROJECT	SOUTH SEMBAKUNG GAS PLANT	MODEL / SIZE	ATC J1.6X13
PO No.	21303-PO-SMN-MEP-00001	TOTAL HEAD (FT)	368
SO No.	21700278	FLOW RATE (GPM)	140
TAG No.	SMN-PBA-331	PUMP S/N	221010
		RPM	2960
		IMPELLER DIA	307.00
		PUMP EFFICIENCY	38.7 %
		Shut Off Head	440 FT
		Power	32.90 HP

PUMP PERFORMANCE CURVE

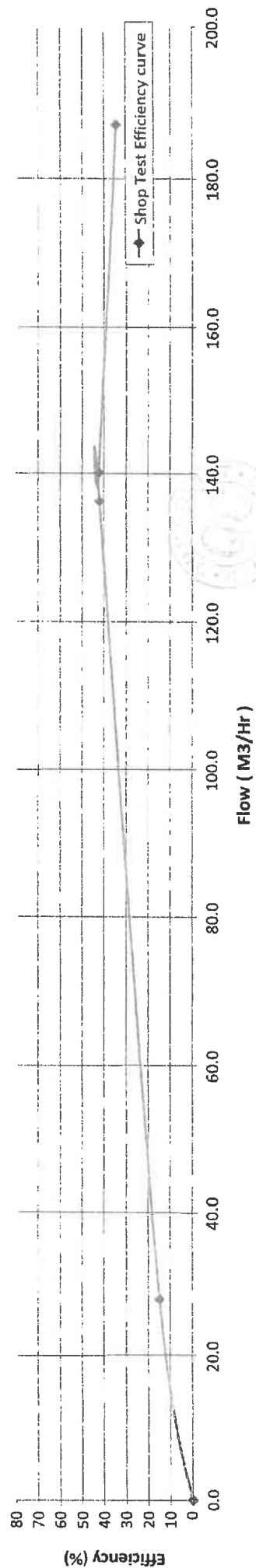
HEAD CURVE



POWER CURVE



EFFICIENCY CURVE




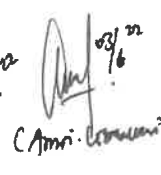
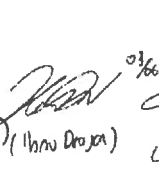
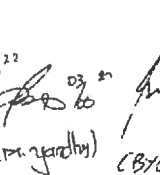


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	kurva. Pengujian menggunakan softstarter untuk mengetahui in rush current dan temperature rise Noise level diukur ulang pada saat flow 28 & 136 m3/hr Melampirkan megger test report untuk motor PT. Duraquipt akan menyampaikan kepada Meindo dan JOB pengetesan yang bisa dilakukan			
5	Informasi pompa ready exwork 9-Jun-22			Info

 5/6
 (Amri. Komarudin)
 03/16
 (Hsu Dora)
 03/16
 (Pr. Jendry)
 03/16
 (B.Y.C.)

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- DURA – ANSI/ ASME Process Pumps
- PEERLESS – Firewater Pump Packager Specialist



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**FACTORY - MECHANICAL RUN TEST
OH2 PUMP**

QUALITY ASSURANCE DEPT.



PUMP DATA									
CUSTOMER	JOB PERTAMINA - MEDCO E&P SIMENGGARIS				PUMP MANUF.		DURA PUMP		IMPELLER DIA
PROJECT	SOUTH SEMBAKUNG GAS PLANT				MODEL / SIZE		ATC J1.5X13		PUMP EFFICIENCY
PO No.	21303-PO-SMN-MEP-00001				TOTAL HEAD (FT)		368		Shut Off Head
SO No.	21700278				FLOW RATE (GPM)		140		Power
TAG No.	SMN-PBA-331				PUMP S/N		221010		RPM
2980									
32.90									
HP									
MOTOR DATA									
Brand	ABB			Power (kW)		30		Phase	3
Frame	M3KP 200MLC			Freq. (Hz)		50		Voltage	400
Type	INDUCTION			Speed (Rpm.)		2946		PF	0.89
								Motor Efficiency	92.40%
								Serial no.	3G1F2152808409

MECHANICAL RUN TEST RECORD

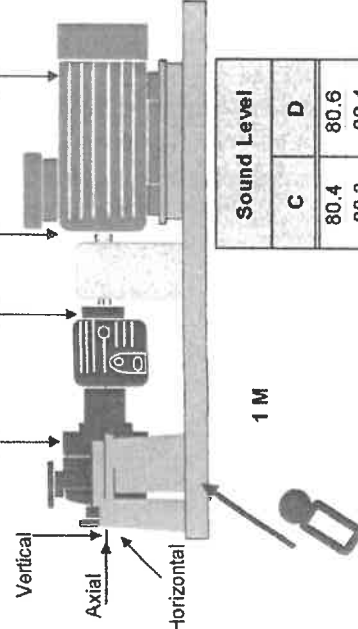
No	Time	Flow (GPM)	Pump Speed (Rpm)	Disch Press (Psi)	Suction Press (Psi)	Diff Head (FT)	Elevation (FT)	Diff VelocityH ead (FT)	* Total Head (FT)	Motor Amp.	Voltage (V)	Motor PF	Liquid Power (HP)	Shaft Power (HP)	Pump Efficiency (%)	Temperature (°C)				Ambient (°C)	
																Pump		Motor			
																DE	NDE	DE	Centre		NDE
7	14.30	140.5	2960	164	4.3	368.9	0.30	0.00	369.21	42.6	380	0.89	13.1	30.9	42.4	60.1	48.1	71.8	54.2	39.9	32.2
8	15.00	140.3	2962	164	4.3	368.9	0.30	0.00	369.21	42.7	380	0.89	13.1	31.0	42.2	60.3	47.9	69.4	53.3	39.1	31.3
9	15.30	140.2	2958	164	4.3	368.9	0.30	0.00	369.21	42.8	380	0.89	13.1	31.1	42.1	58.8	46.8	66.6	50.7	37.1	30.3

* Note : Total Head = Diff Head + Elevation (Elv. Dicsh pres to pump centre) + Diff velocity head

VIBRATION RECORD (mm/s)																Sound Level				
FLOW (M3/Hr)	A		B		C		D		A		B		C		D		A		B	
	H	V	H	V	H	V	H	V	H	V	H	V	H	V	H	V	H	V	H	V
140.5	0.54	0.48	0.97	1.02	0.78	0.52	1.38	1.38	0.52	0.61	1.26	1.36	1.00	1.02	81.2	80				
140.3	0.52	0.55	0.96	1.02	0.96	0.45	1.28	1.28	0.45	0.42	1.10	1.35	0.96	0.84	81	80.2				
140.2	0.57	0.56	0.95	0.98	0.94	0.52	1.24	1.24	0.52	0.35	0.83	1.15	0.79	0.72	81	80.3				

NOTE : Four Read - Six Head - One Motor (LRT) Unit, Press to Pump Centre / Exit Rotating Head

Vertical
Axial
Horizontal



Tested By		Witness By	
Dokasi/Erwan		Anadi	
Date: 30 June '22		Date: 03-06-22	
		BAYU Y. C. Anaga	
		03/06/22	

Sound Level	
C	D
80.4	80.6
80.3	80.4
80	80.3

Sound level meter