



xxx-E-1"
FROM G/L HEADER
C.O.D ATT-BP-56xxx

WH #15




WH #15
X-MAS TREE ORIENTATION
(EXISTING)

BUKAKA
UNIT USAHA BALIKPAPAN
DOCUMENT CONTROL CENTRE
ORIGINAL
28 FEB 2013

- NOTES :
- ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE NOTED
 - PIPE SUPPORT ADJUSTMENT ON SITE
 - ORIENTASI X-MAS TREE SAME WITH EXISTING

REFERENCE DRAWINGS		DRAWINGS		REVISIONS	
ATT-BP-4104 SHT-1	P&ID WELLHEAD EXPANSION	REV	DATE	BY	CHKD
		0	20-12-12	MGU	TGR
		C	14-12-12	MGU	TGR
		B	07-12-12	MGU	MOL
		A	06-12-12	MGU	MOL


BILL OF MATERIAL					
ITEM	QTY	SIZE	SCH	DESCRIPTION	
MATERIAL FABRICATION					
1	1 EA	1"	160	FLANGE SW 900# RTJ, ASTM.A-105	
2	1 EA	3"	XXS	FLANGE WN 5000 API RTJ, PER API 6A. TYPE B. TYPE 4.	
3	4 EA	4"	160	FLANGE WN 3000 API RTJ, PER API 6A. TYPE B. TYPE 4.	
4	7 EA	4"	160	EQUAL TEE BW, ASME B16.9 ASTM A-234 WPB.	
5	6 EA	4"	160	CAP BW, ASME B16.9 ASTM A-234 WPB.	
5A	1 EA	4"x3"	160	CONCENTRIC REDUCER BW, ASME B16.9 ASTM A-234 WPB.	
6	1 EA	¾"ON4"	~	SOCKOLET 6000 PSI, ASME B16.11, ASTM A.105	
7	1 EA	1"ON4"	~	SOCKOLET 6000 PSI, ASME B16.11, ASTM A.105	
8	1 EA	¾"x4"LG	160	PIPE NIPPLE (POEXTOE) , ASTM A.106 GR.B SEAMLESS	
9	1 EA	1"x4"LG	160	PIPE NIPPLE (POEXTOE) , ASTM A.106 GR.B SEAMLESS	
10	20 FT	4"	160	PIPE API 5L-GR.B OR ASTM A.106 GR.B SEAMLESS	
MATERIAL INSTALLATION					
11	1 EA	¾"	~	HEX PLUG SOLID 6000 PSI, ASTM A.106 GR.B SEAMLESS	
12					
13	1 EA	¾"	~	BALL VALVE 6000 WOG SCR'D (¾"J2S).	
14	1 EA	4"	~	CHECK VALVE 3000 API RTJ, DUAL PLATE WAFER TYPE (4"J5JW).	
15	1 EA	1"	~	DOUBLE BLOCK AND BLEED 900# RTJ. MONOFLANGE TYPE	
16	1 EA	R-16	1"900 RJ	INSULATION GASKET	
17	1 EA	R-35	3"5000 RJ	OVAL RING SOFT IRON CAD PLTD MAX BHN 90 TYPE R. PER API 6A.	
18	4 EA	R-37	4"3000 RJ	OVAL RING SOFT IRON CAD PLTD MAX BHN 90 TYPE R. PER API 6A.	
19	4 EA	7/8"x5"	1"900 RJ	STUD BOLTS ASTM A-193 GR B7, NUTS ASTM A-194 GR 2H CAD PLTD.	
20	8 EA	1 1/8"x7 1/4"	3"5000 RJ	STUD BOLTS ASTM A-193 GR B7, NUTS ASTM A-194 GR 2H CAD PLTD.	
21	16 EA	1 1/8"x7"	4"3000 RJ	STUD BOLTS ASTM A-193 GR B7, NUTS ASTM A-194 GR 2H CAD PLTD.	
22	8 EA	1 1/8"x11"	4"3000 RJ	STUD BOLTS ASTM A-193 GR B7, NUTS ASTM A-194 GR 2H CAD PLTD.	

**APPROVED
FOR CONSTRUCTION**

BY : _____ DATE : _____

MODIFICATION

PIPING CODE	ASME B.31.3	INSULATION	NO
PIPING SPEC.	J/K	X-RAY	100%
DESIGN PRESS. (PSI)	2930/4880	MPI	YES
DESIGN TEMP. (°F)	300	HYDROTEST (PSI)	4500/7500-100%
PAINT SPECIFICATION	COM-SU-2.02.C	PWHT	NO

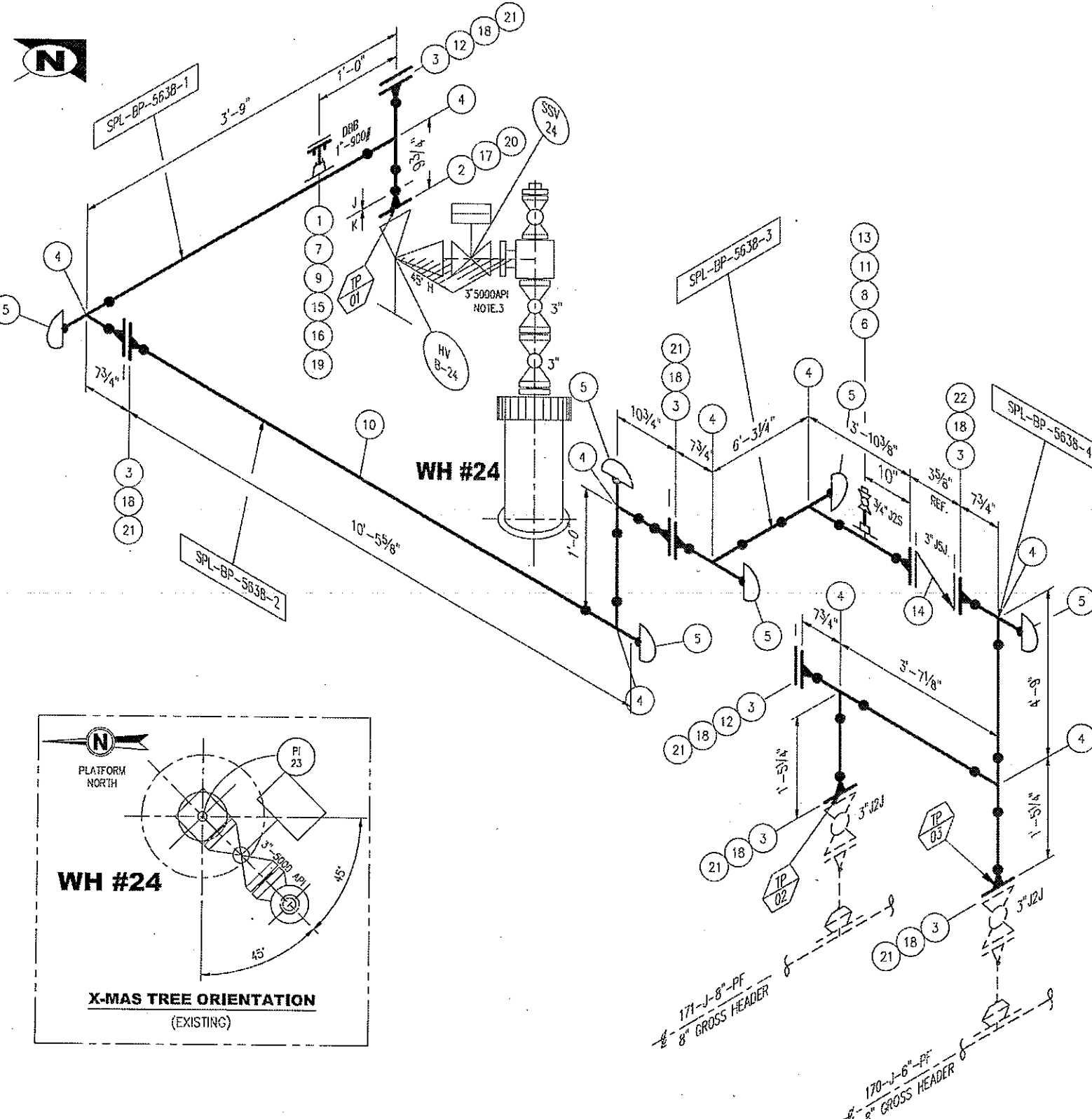
**Chevron Indonesia Company**
BALIKPAPAN-EAST KALIMANTAN

SIGNED	DATE	SIGNED	DATE
MGU	04-12-12	WW	04-12-12

CHECKED BY	MOL	04-12-12	APPROVED BY	WW	04-12-12
CAD REF.	ATT-BP-5639	JOB NO.	2590647		

TITLE
ATAKA "B" PLATFORM
WH#15 FLOWLINE
LINE NO. xxx-J-4"

DRAWING NO.	SHEET NO.	REV
ATT-BP-5639	1 OF 1	0



BILL OF MATERIAL					
ITEM	QTY	SIZE	SCH	DESCRIPTION	
MATERIAL FABRICATION					
1	1 EA	1"	160	FLANGE SW 900# RTJ, ASTM A-105	
2	1 EA	3"	XXS	FLANGE WN 5000 API RTJ, PER API 6A, TYPE B, TYPE 4.	
3	10 EA	3"	160	FLANGE WN 3000 API RTJ, PER API 6A, TYPE B, TYPE 4.	
4	9 EA	3"	160	EQUAL TEE BW, ASME B16.9 ASTM A-234 WPB.	
5	6 EA	3"	160	CAP BW, ASME B16.9 ASTM A-234 WPB.	
6	1 EA	3/4" ON3"	~	SOCKOLET 6000 PSI, ASME B16.11, ASTM A105	
7	1 EA	1" ON3"	~	SOCKOLET 6000 PSI, ASME B16.11, ASTM A105	
8	1 EA	3/4"x4" LG	160	PIPE NIPPLE (POEXTOE), ASTM A106 GR.B SEAMLESS	
9	1 EA	1"x4" LG	160	PIPE NIPPLE (POEXTOE), ASTM A106 GR.B SEAMLESS	
10	40 FT	3"	160	PIPE API 5L-GR.B OR ASTM A106 GR.B SEAMLESS	
MATERIAL INSTALLATION					
11	1 EA	3/4"	~	HEX PLUG SOLID 6000 PSI, ASTM A106 GR.B SEAMLESS	
12	2 EA	3"	~	BLIND FLANGE 3000 API RTJ, PER API 6A, TYPE B, TYPE 4.	
13	1 EA	3/4"	~	BALL VALVE 6000 WOG SCRD (3/4" J2S).	
14	1 EA	3"	~	CHECK VALVE 3000 API RTJ, DUAL PLATE WAFER TYPE (3" J5JW).	
15	1 EA	1"	~	DOUBLE BLOCK AND BLEED 900# RTJ, MONOFLANGE TYPE	
16	1 EA	R-16	1" 900 RJ	INSULATION GASKET	
17	1 EA	R-35	3" 5000 RJ	OVAL RING SOFT IRON CAD PLTD MAX BHN 90 TYPE R, PER API 6A.	
18	8 EA	R-31	3" 3000 RJ	OVAL RING SOFT IRON CAD PLTD MAX BHN 90 TYPE R, PER API 6A.	
19	4 EA	7/8"x5"	1" 900 RJ	STUD BOLTS ASTM A-193 GR B7, NUTS ASTM A-194 GR 2H CAD PLTD.	
20	8 EA	1 1/8"x7 1/4"	3" 5000 RJ	STUD BOLTS ASTM A-193 GR B7, NUTS ASTM A-194 GR 2H CAD PLTD.	
21	48 EA	7/8"x6"	3" 3000 RJ	STUD BOLTS ASTM A-193 GR B7, NUTS ASTM A-194 GR 2H CAD PLTD.	
22	8 EA	7/8"x9 1/4"	3" 3000 RJ	STUD BOLTS ASTM A-193 GR B7, NUTS ASTM A-194 GR 2H CAD PLTD.	
23	3 EA	1/2"	~	UBOLT C/W NUTS FOR 3" PIPE	
24	10 FT	3"x3"	3"x3"	STEEL ANGLE ASTM A36	

**APPROVED
FOR CONSTRUCTION**

BY : GFR DATE : 08/02/13

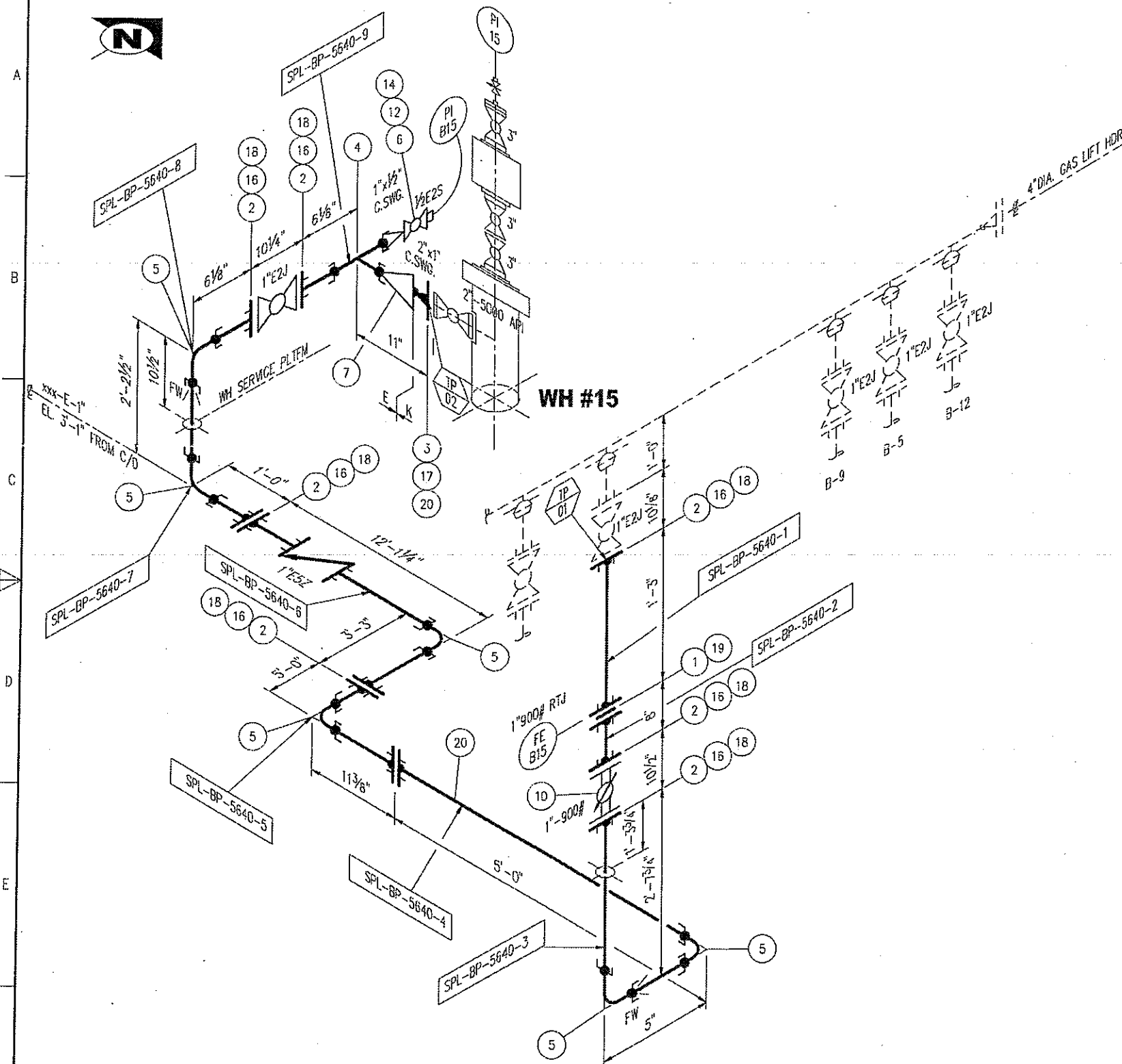
MODIFICATION

BUKAKA
UNIT USAHA BALIKPAPAN
DOCUMENT CONTROL CENTRE
ORIGINAL
22 FEB 2013

PIPING CODE	ASME B.31.3	INSULATION	NO
PIPING SPEC.	J/K	X-RAY	100%
DESIGN PRESS. (PSI)	2930/4880	MPI	YES
DESIGN TEMP. (°F)	300	HYDROTEST (PSI)	4500/7500-100%
PAINT SPECIFICATION	COM-SU-202.C	PWHT	NO

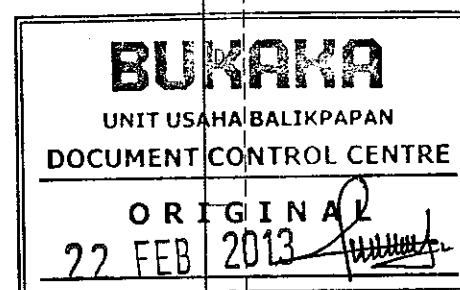
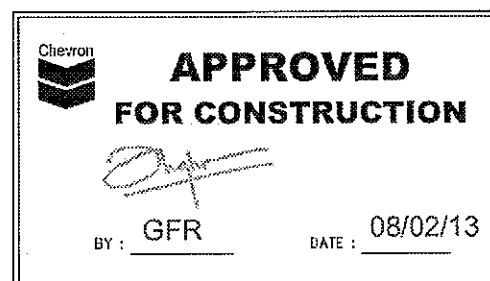
Chevron Indonesia Company BALIKPAPAN-EAST KALIMANTAN				TITLE ATAKA "B" PLATFORM WH#24 FLOWLINE LINE NO.137-J-3"	
DRAWN BY	MCU	DATE	04-12-12	APPROVED BY	WW
CHECKED BY	MUL	DATE	04-12-12	APPROVED BY	
CAD REF.	ATT-BP-5638	JOB NO.	2590647	DRAWING NO.	ATT-BP-5638
				SHEET NO.	1 OF 1
				REV	0

NOTES :				REVISIONS			
1. ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE NOTED							
2. PIPE SUPPORT ADJUSTMENT ON SITE							
3. ORIENTASI X-MAS TREE SAME WITH EXISTING							
REFERENCE DRAWINGS				REV	DATE	BY	CHKD
ATT-BP-4104 SH1-1 FMO WELLHEAD EXPANSION				0	20-12-12	MCU	TGR
				C	14-12-12	MCU	TGR
				B	07-12-12	MCU	WW
				A	06-12-12	MCU	WW



MATERIAL LIST

ITEM	QTY	SIZE	SCH	DESCRIPTION
FABRICATION				
1	1 SET	1"	160	ORIFICE FLANGE SW, 900# RTJ C/W ORIFICE PLATE
2	11 EA	1"	160	FLANGE SW 900# RTJ, ASME B16.5 ASTM A-105
3	1 EA	2"	XXS	FLANGE WN 5000API RTJ, API 6A, MATERIAL TYPE 6B, TYPE 4.
4	1 EA	1"	6000PSI	EQUAL TEE SW, ASME B16.11 ASTM A-105
5	6 EA	1"	6000PSI	ELBOW 90° SW, ASME B16.11 ASTM A-105
6	1 EA	1"x1 1/2"	6000PSI	SWAGE NIPPLE, (PLEXTSE), ASME B16.11, ASTM A.106
7	1 EA	2"x1"	6000PSI	SWAGE NIPPLE, (BLEXPSE), ASME B16.11, ASTM A.106
8	40 FT	1"	160	PIPE API-SL-GR.B OR ASTM A.106 GR.B SEAMLESS
MATERIAL INSTALLATION				
9	1 EA	1"	~	CHOKE VALVE, FLANGE END 900# RTJ INLINE TYPE
10				
11	1 EA	1"	~	CHECK VALVE 2500 WOG SW, SWING TYPE (1"E2S)
12	1 EA	1/2"	~	BALL VALVE 6000 WOG SCR'D (1/2"E2S)
13	1 EA	1"	~	BALL VALVE 900# RTJ, FLANGE END (1"E2J)
14	1 EA	1/2"	~	HEX PLUG SOLID 6000 PSI, ASTM A.106 GR.B SEAMLESS
15	1 EA	R-16	1"900 RJ	INSULATION GASKET
16	8 EA	R-16	1"900 RJ	OVAL RING, SOFT IRON CAD. PLTD MAX BHN 90 PER ASME B16.20
17	1 EA	R-24	2"5000API	OVAL RING, SOFT IRON CAD. PLTD MAX BHN 90 PER ASME B16.20
18	32 EA	7/8"x5/4"	1"900 RJ	STUD BOLTS ASTM A-193 GR B7, NUTS ASTM A-194 GR 2H CAD PLTD.
19	4 EA	7/8"x5/4"	1"900 RJ	STUD BOLTS ASTM A-193 GR B7, NUTS ASTM A-194 GR 2H CAD PLTD. FOR ORIFICE
20	8 EA	7/8"x5"	2"5000API	STUD BOLTS ASTM A-193 GR B7, NUTS ASTM A-194 GR 2H CAD PLTD.



NEW INSTALLATION

PIPING CODE	B.31.3	INSULATION	NO
PIPING SPEC.	E/K	X-RAY	100%
DESIGN PRESS. (PSI)	2025/4880	MPI	YES
DESIGN TEMP. (°F)	200/300°F	HYDROTEST (PSI)	3350-7500/100°F
PAINT SPECIFICATION	COW-SJ-2.02.C	PWHT	-

Chevron Indonesia Company BALIKPAPAN-EAST KALIMANTAN				TITLE ATTAKA "B" PLATFORM 1" GAS LIFT INSTALLATION B-15 LINE NO. xxx-E-1"			
DRAWN BY	MCJ	DATE	04-12-12	APPROVED BY	WW	DATE	04-12-12
CHECKED BY	MEL	DATE	04-12-12	APPROVED BY			
CAD REF.	ATT-BP-5640	JOB NO.	2590647	DRAWING NO.	ATT-BP-5640	SHEET NO.	1 OF 1

- NOTES :
- ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE NOTED
 - PIPE SUPPORT ADJUSTMENT ON SITE

REV	DATE	BY	CHKD	APPD	REVISIONS
0	20-12-12	MCJ	TGR	WW	APPROVED FOR CONSTRUCTION
C	14-12-12	MCJ	TGR	WW	ISSUED FOR APPROVAL
B	07-12-12	MCJ	MOL	WW	ISSUED FOR COMMENT
A	06-12-12	MCJ	MOL	WW	ISSUED FOR INTERNAL REVIEW