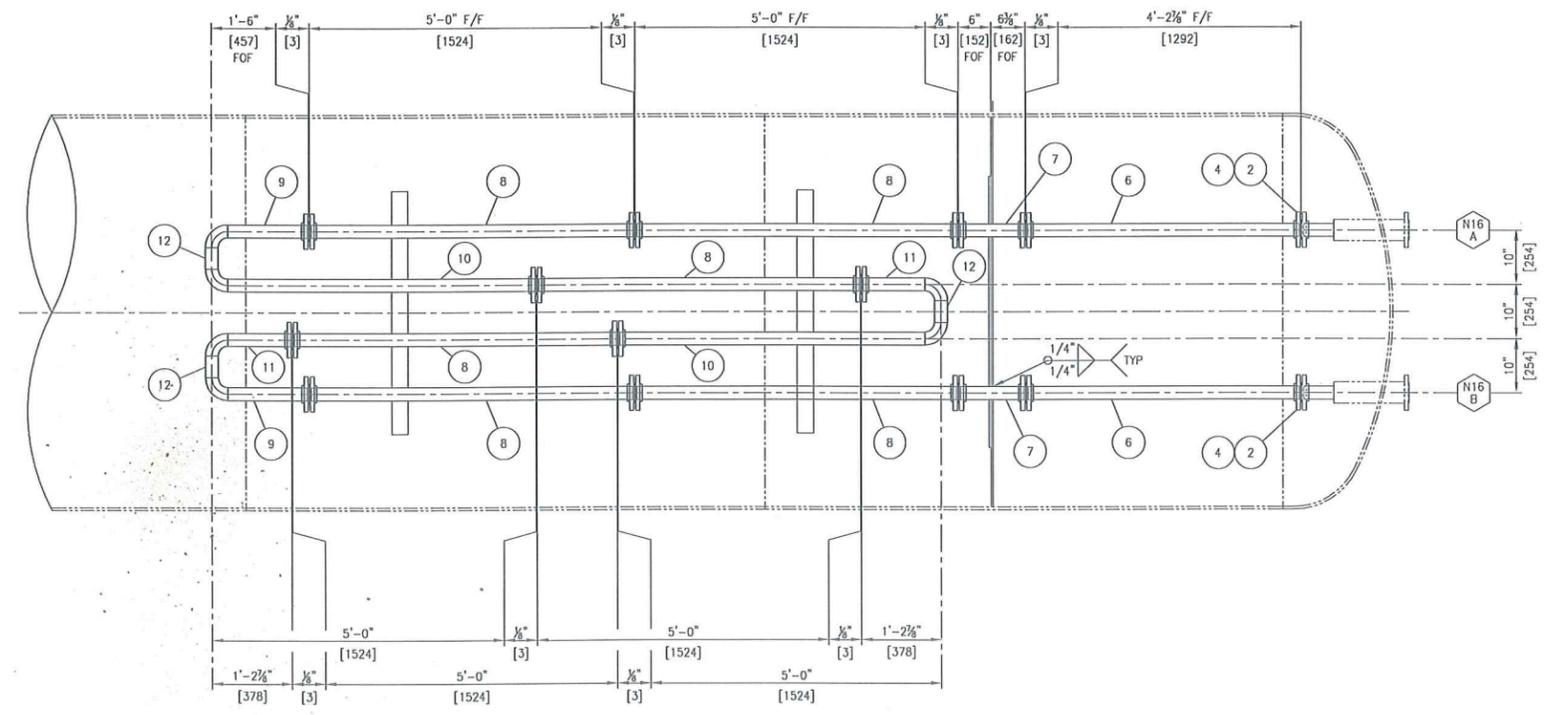


BILL OF MATERIALS					
ITEM NO.	PART	DESCRIPTION	QTY	MATERIAL	WELD SYMBOL
1	FLANGE	2" CL 300 RFSO FLG	24	SA-182F316	F1-1
2	GASKET	2" CL 300 RF x 1/8" THK GASKET	2	NOTE #2	
3	GASKET	2" CL 300 RF x 1/8" THK GASKET	14	NOTE #3	
4	STUDS AND NUTS	5/8" x 3 1/2" LG STUDS c/w (2) HEX NUTS EACH	112	NOTE #1	
5	ELBOW	2" SCH 80 90° LRWB ELL	6	SA-403WP316	F3-1
6	PIPE	2" SCH 80 SMLS PIPE x 4'-2 1/8" LG (BOEXPOE)	2	SA-312P316	F3-1
7	PIPE	2" SCH 80 SMLS PIPE x 11 5/8" LG (PBE)	2	SA-312P316	F3-1
8	PIPE	2" SCH 80 SMLS PIPE x 4'-11 1/4" LG (PBE)	6	SA-312P316	F3-1
9	PIPE	2" SCH 80 SMLS PIPE x 1'-2 5/8" LG (BOEXPOE)	2	SA-312P316	F3-1
10	PIPE	2" SCH 80 SMLS PIPE x 4'-8 5/8" LG (BOEXPOE)	2	SA-312P316	F3-1
11	PIPE	2" SCH 80 SMLS PIPE x 11 1/2" LG (BOEXPOE)	2	SA-312P316	F3-1
12	PIPE	2" SCH 80 SMLS PIPE x 4" LG (BBE)	3	SA-312P316	F3-1



**SECTION "B-B"**  
 1. SCALE: 3/4"=1'-0"  
 2. ITEM TAGS FOR ELBOWS (ITEM #5), RFSO FLG'S (ITEM #1), AND GASKETS, STUDS & NUTS FOR RFSO FLG'S (ITEMS #3 & #4) NOT SHOWN FOR CLARITY.

- NOTES**
- BOLTING TO BE SA-193-B8 AND SA-194-B MATERIAL.
  - GASKETS TO BE 1/8" THK LINEBACKER G10/TEFLON.
  - GASKETS TO BE SPIRAL WOUND 316 SS WITH FLEXIBLE CHLORITE FILLER AND CARBON STEEL INNER AND CENTRING RING (PINK STRIPE).
  - SHELL AND HEADS CWNT EXEMPT PER UCS-66. ALL OTHER COMPONENTS EXEMPT PER UG-20(f), UCS-66 AND/OR UHA-51(a).
  - NOZZLE BUTT WELDS TO BE 100% RT, LONG AND CIRC SEAMS RT PER UW-11(a) TYPE 1.
  - ALL SS NOZZLES SHALL BE EXAMINED FOR THE DETECTION OF CRACKS BY LIQUID PENETRANT METHOD PER UHA-34.
  - 10% OF SS INTERNAL PIPING SHALL BE EXAMINED FOR THE DETECTION OF CRACKS BY LIQUID PENETRANT METHOD PER UHA-34.
  - 10% OF SS TAB WELDS SHALL BE EXAMINED FOR THE DETECTION OF CRACKS BY LIQUID PENETRANT METHOD PER UHA-34.
  - FOR THE FOLLOWING WPS USE THE CORRESPONDING MATERIAL GROUPS:  
 5B-102/5B-103 FOR P1 TO P1  
 5B-107 FOR PB TO P1  
 5B-108 FOR PB TO PB
  - ONE (1) HOUR CHART RECORDED HYDROTEST REQUIRED (CERTIFIED RECORDER, PRESSURE ONLY), PRIOR TO MAIN VESSEL HYDROTEST.
  - STANDARD FORGINGS SHALL BE IN ACCORDANCE WITH ASME B16.5, 2009 EDITION.
  - SHOP NOTE: "FS" DENOTES FAR SIDE.
  - REFER TO DWG# 5B1088-08-DR-20-001 FOR VESSEL ELEVATION & ORIENTATION.
  - REFER TO DWG# 5B1088-08-DR-20-002 FOR NOZZLE SCHEDULE AND BOM.
  - REFER TO DWG# 5B1088-08-DR-20-004 AND 005 FOR ADDITIONAL DETAILS.
  - REFER TO DWG# 5B1088-08-DR-20-007 FOR VANE PACK DETAILS.
  - REFER TO DWG# 5B1088-08-DR-20-010 TO 015 FOR COALESCER PACK DETAILS.

WELDING DATA		VESSEL SERIAL NUMBER: 5B1088-20	
WELDING PROCEDURES:	WP-3146.2	SERVICE:	SWEET
REF. DRAWING NUMBER:	5B-0001 (FABRICATION TOLERANCES FOR PRESSURE VESSELS)		
LONG SEAM WPS:	N/A		
CIRC. SEAM WPS:	N/A		
NOZZLE TO FLG WPS:	5B-102/5B-103/5B-107/5B-108		
OTHER WELD WPS:	SEE NOTE #9		
PRE-HEAT TO:	50°F (10°C) MIN.		
NDE & TESTING DATA			
QUALITY CONTROL PROGRAM:	AQP-1507		
HYDROSTATIC TEST PRESSURE:	852 PSIG ( 5874 kPag) (SEE NOTE #10)		
RADIOGRAPHY:	SEE NOTE #5		
IMPACT TESTS:	SEE NOTE #4		

DESIGN DATA (COIL)	
CODE:	ASME SECTION VIII, DIV. 1, 2010 EDITION 2011(a) ADDENDA
DESIGN PRESS:	655 PSIG ( 4516 kPag), DESIGN TEMP. 302 °F ( 150 °C)
EXTERNAL PRESS:	153 PSIG ( 1055 kPag), DESIGN TEMP. 302 °F ( 150 °C)
MIN. DESIGN METAL TEMP.:	-20 °F @ 655 PSIG @ -29 °C @ 4516 kPag
MAWP:	655 PSIG @ 302 °F ( 4516 kPag @ 150 °C), (LTD BY: FLG'S)
MAP NEW & COLD:	PSIG @ °F ( kPag @ °C)
CORROSION ALLOW.:	0" ( 0 mm) (INTERNAL & EXTERNAL)
PWHT:	NONE
HEAD #:	N/A THK NOM. ( mm), MIN. ( mm)
HEAD #:	THK NOM. ( mm), MIN. ( mm)
SHELL #:	N/A THK NOM. ( mm), MIN. ( mm)
SHELL #:	THK NOM. ( mm), MIN. ( mm)
MASS (EMPTY):	TBA lbs ( TBA kg), MASS (HYDRO) TBA lbs ( TBA kg)
VOLUME:	TBA cu. ft ( TBA cu. m)

REV. NO.	REVISION	BY	CHECKED	DATE
3	AS BUILT	TBB	PE	24/09/13
2	REVISED NOTE #7	TBB		30/04/13
1	REVISED CODE ADDENDA	TBB		02/04/13
0	ISSUED FOR CONSTRUCTION	AM		13/03/13
A	ISSUED FOR APPROVAL	TBB		21/02/13

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CUSTOMER	DEVON NEC CORPORATION		
CUSTOMER REF. NO.	RFP No. FC-1212496-M105	JOB NO.	5B1088-20
PROJECT	FERRIER CENTRAL PROCESSING FACILITY CENTRAL OIL BATTERY - SEPARATION & TREATMENT		
TITLE	FREE WATER KNOCK OUT VESSEL (001-V-01-1010) COIL DETAILS 72" ID x 24'-0" S/S x 150 PSIG @ 302°F 1829 mm ID x 7315 mm S/S x 1034 kPag @ 150°C		
DRAWN	TBB	CHECKED	PE
SCALE	3/4"=1'-0"	DATE	15/02/13
ISSUING NUMBER	5B1088-08-DR-20-003	SHEET	008