

NOTES:

1. TACK WELDS USED = WPS# BIL. 2
2. ALL REPAIRS TO HAVE 1/4" NPT WEEP HOLE
3. UT SHELLS AND HEADS ON 3" GRID AS PER SA 578, LEVEL 1.
4. ONE COAT OF INTERNATIONAL PRIMER AND TWO COATS OF STRAT GREY ALKYO ENAMEL
5. INTERNALLY CLEANED, PICKLED, NEUTRALIZED, WASHED AND OILED
6. U.T. CATEGORY "D" WELDS
7. ALL MATERIALS TO MEET "TUXTLA" RESTRICTED SOUR GAS CHEMISTRY
8. HARDNESS TEST: ONE TEST PER L.S., ONE TEST PER C.S. AND ONE TEST PER CAT. "B" WELD.

9. ALL ATTACHMENTS TO VESSEL TO BE 1/4" CONTINUOUS FULLER WELD UNLESS OTHERWISE NOTED (BIL. 14)

TUXTLA RESTRICTED CHEMISTRY:

PLATE: PHOSPHORUS = 0.025 % MAX.
SULPHUR = 0.005 % MAX.
PIPE & FITTINGS: CARBON = 0.30 % MAX.
MANGANESE = 1.06 % MAX.
PHOSPHORUS = 0.025 % MAX.
SULPHUR = 0.015 % MAX.
FORGINGS: AS ABOVE EXCEPT MANGANESE CAN BE 1.30 % MAX.
CARBON EQUIVALENT: 0.45 % MAX & BHN = 200 MAX.

APPROVED
FOR FABRICATION

CUSTOMER PER R. FOLEY DATE
ENGINEERING PER S. SEITZ DATE
SHOP PROD. PER S. SEITZ DATE

95-5114-95089-4B

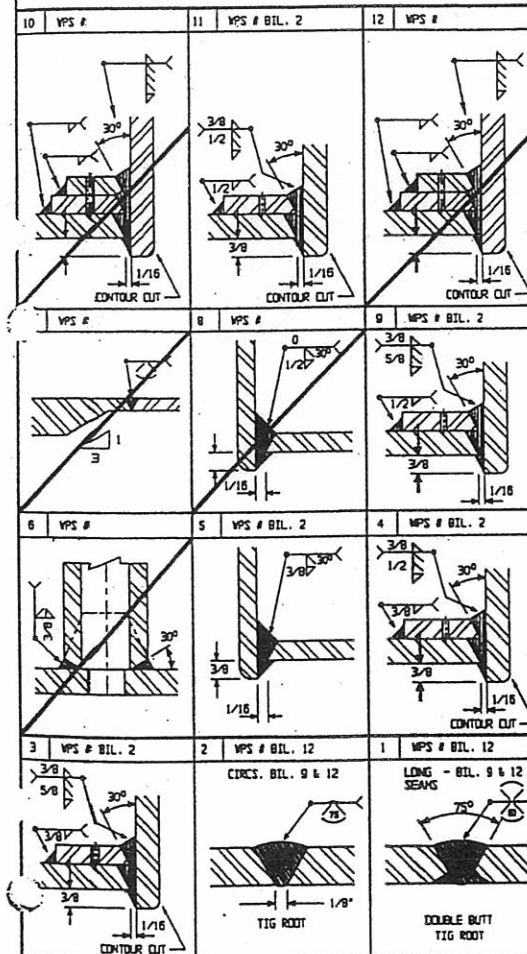
BILL OF MATERIAL

Item	No. Req'd	Size	Description	Mat'l Spec.
1	2	84"	I.D. x 7/8" t. ROLLED CAN x 10' - 0" LG	SA-516-70N
2	2	84"	I.D. x 7/8" Non-t. 2:1 SE HEAD c/v 2" SF	SA-516-70N
3	ONE	20"	150# RFWN FLANGE XXH BORE	SA-105 N
4	ONE	20"	150# RF BLIND FLANGE	SA-105 N
5	2	12"	150# RFWN FLANGE SCH 80 BORE	SA-105 N
6	ONE	4"	150# RFWN FLANGE XXH BORE	SA-105 N
7	2	3"	150# RFWN FLANGE XXH BORE	SA-105 N
8	ONE	2"	150# RFWN FLANGE XXH BORE	SA-105 N
9	ONE	3"	150# RFWN BLIND FLANGE	SA-105 N
10	15	1.5"	150# RFWN FLANGE XXH BORE	SA-105 N
11	4	1"	150# RFWN FLANGE XXH BORE	SA-105 N
12	ONE	20"	XXH WALL SHLS PIPE x 4 1/8" BOE, POE	SA-106-B
13	ONE	12"	SCH 80 WALL SHLS PIPE x 9 5/8" BOE, POE	SA-106-B
14	ONE	12"	SCH 80 WALL SHLS PIPE x 5 3/8" BOE, POE	SA-106-B
15	ONE	4"	XXH WALL SHLS PIPE x 6" BOE, POE	SA-106-B
16	ONE	3"	XXH WALL SHLS PIPE x 6 1/4" BOE, POE	SA-106-B
17	ONE	3"	XXH WALL SHLS PIPE x 36 1/8" BOE, POE	SA-106-B
18	ONE	2"	XXH WALL SHLS PIPE x 6 1/2" BOE, POE	SA-106-B
19	ONE	5/8"	t. x 20 1/8" ID x 36" OD REPAID	SA-516-70N
20	ONE	5/8"	t. x 12 7/8" ID x 22" OD REPAID	SA-516-70N
21	ONE	3/8"	t. x 4 5/8" ID x 8 1/2" OD REPAID	SA-516-70N
22	ONE	3/8"	t. x 3 5/8" ID x 7 1/2" OD REPAID	SA-516-70N
23	2	3/8"	t. PLATE x 12" WIDE x 11' - 2 5/8" LG.	SA-516-70N
24	2	1"	t. PLATE x 12" WIDE x 7' - 8" LG.	SA-36
25	2	1/2"	t. x 10" x 89 3/4" x 78" LG. FORMED CHANNEL	SA-36
26	2	3/8"	t. PLATE x 6" WIDE x 48 1/2" LG.	SA-36
27	2	3/8"	t. PLATE x 6" WIDE x 36 1/2" LG.	SA-36
28	ONE	3/8"	t. PLATE x 6" WIDE x 33 3/4" LG.	SA-36
29	ONE		20" HEAVY DAVIT ASSEMBLY	AS REQ'D.
30	ONE		ASME NAME PLATE c/v MFG. BRKT.	SA-516-70N
31	ONE	20"	150# FLEXITALLIC GASKET	316 SS
32	ONE	3"	150# FLEXITALLIC GASKET	316 SS
33	24	1 1/8"	x 6 1/2" LG STUD c/v 2 HYV HEX NUTS	87M/2H
34	4	5/8"	x 3 1/2" LG STUD c/v 2 HYV HEX NUTS	87M/2H
35	2	1"	PLATE x 8" WIDE x 8" LG. (SEE DETAIL)	SA-36
36	2	1/2"	PLATE x 2" WIDE x 9" LG.	SA-516-70N
37	ONE	6"	t. #9 DENSITY MESH PAD x 40" x 44" LG.	316 SS
38	20	1"	x 3/8" t. FLAT BAR MESH SUPPORT	SA-516-70N
39	A/R	3/8"	PLATE MESH PAD BOX AS REQ'D.	SA-516-70N
40	ONE	12"	CHANNEL # 20M/FT x LG. AS REQ'D.	SA-36
41	2	6"	x 6" x 1/4" t. ANGLE x LG. AS REQ'D.	SA-36
42	ONE	6"	x 6" x 1/4" t. ANGLE x LG. AS REQ'D.	SA-36

CONNECTION SCHEDULE

Ref.	Size	Rating	Type	Service	Weld Detail
M1	20"	150#	RFWN	MANWAY / INSP. OPENING	2, 11
N1	12"	150#	RFWN	GAS INLET	2, 9
N2	12"	150#	RFWN	GAS OUTLET	2, 9
N3	3"	150#	RFWN	WATER OUTLET	2, 3
N4	2"	150#	RFWN	MANUAL DRAIN	2, 5
N5	4"	150#	RFWN	RELIEF VALVE CONNECTION	2, 4
N6	3"	150#	RFWN	FUTURE HYDROCARBON OUTLET	2, 3
N7	1"	150#	RFWN	PRESSURE INDICATOR	2, 5
N8	1"	150#	RFWN	PRESSURE TRANSMITTER	2, 5
N9	1"	150#	RFWN	PRESSURE SHUTDOWN	2, 5
N10	1.5"	150#	RFWN	TEMPERATURE INDICATOR	2, 5
N11	1.5"	150#	RFWN	WATER LEVEL CONTROLLER	2, 5
N12	1.5"	150#	RFWN	WATER GAUGE GLASS	2, 5
N13	1.5"	150#	RFWN	HYDROCARBON LEVEL CONTROLLER	2, 5
N14	1.5"	150#	RFWN	HYDROCARBON GAUGE GLASS	2, 5
N15	1.5"	150#	RFWN	HIGH LIQUID LEVEL SHUTDOWN	2, 5
N16	1.5"	150#	RFWN	SPARE	2, 5
N17	1.5"	150#	RFWN	SPARE	2, 5
N18	1"	150#	RFWN	SPARE	2, 5

58	3	3/4"	DIA. ROUND BAR	SA-36
59	6	3/8"	t. x 2" x 2" SQ	SA-516-70N
57	ONE	3/8"	3" x 6" x 6" VORTEX BREAKER	SA-516-70N
56	2	1/2"	t. x 42" WIDE x 84" LG.	SA-516-70N
55	2	1.5"	XXH WALL LR 45 Deg. BW ELBOW	SA-234-WPB
54				
53	4	3/8"	t. x 1 1/2" WIDE GUSSETS	SA-516-70N
52	ONE	3/8"	t. x 18" DIA. BAFFLE	SA-516-70N
51	4	1/2"	DIA. x 2 1/2" LG. STUD c/v 2 HYV HEX NUTS	87M/2H
50	16	1/2"	DIA. x 3" LG. STUD c/v 2 HYV HEX NUTS	87M/2H
49	1	1"	150# FLEXITALLIC GASKET	316 SS
48	4	1.5"	150# FLEXITALLIC GASKET	316 SS
47	1	1"	150# RF BLIND FLANGE	SA-105 N
46	4	1.5"	150# RF BLIND FLANGE	SA-105 N
45	4	1"	XXH WALL SHLS PIPE x LG. AS REQ'D.	SA-106-B
44	15	1.5"	XXH WALL SHLS PIPE x LG. AS REQ'D.	SA-106-B
43	ONE	3/4"	t. x 12 7/8" ID x 26" OD REPAID	SA-516-70N



Vessel to be constructed in strict accordance with the 1992 edition of the ASME Code: 1994, ADDENDA for Unfired Pressure Vessels Section VIII Div. 1

DESIGN	DESIGN			HYDROTEST		
	Internal Press.	265 PSIG			420 PSIG	
	External Press.	ATMOS.			ATMOS.	
	Temperature	100 Deg.F			AMBIENT	
	Min. Design Metal Temp. -20 Deg.F AT 265 PSIG					
MATERIAL	Corr. Allowance 1/8" in 3.2 mm	Radiography:		PER UN 110 INCL. CAT. "B"		
	Mat'l Tests EXEMPT PER UG 20(1-5)					
	P.V.H.T. 1150 Deg.F/1 hour	ft ³ - 8	Volume	ft ³	n ³	
	Wt. full of water	lb	kg	Shipping Wt.	lb kg	
	MAIN BARREL	MATERIAL	THICKNESS		TYPE	
			Calc.	Min.	Non.	
	Shell	SA-516-70N	0.817	0.875	0.875	ROLLED PL.
	Head.....End/Top	SA-516-70N	0.812	0.875	0.875	2:1 ELLIP.
	Head.....End/Bottom	SA-516-70N	0.812	0.875	0.875	2:1 ELLIP.
	Flange	Nozzle Neck	Coupling		Weld Fitting	
SA-105N/350-LF2	SA-106-B	SA-105N		SA-234-WPB		
Boils/Studs	Nuts	Washers				
SA-193-B7H	SA-194-2HN	FLEXITALLIC 316 SS				

Special Procedures: SEE NOTES #3, #6 AND #8
Service: SOUR GAS SERVICE
Registered Welding Procedures: WPS 1259.2 ADP 1190
C.R.N.:
Serial No. 4523 Customer P.864
Surface Prep. EXTERNALLY SANDBLASTED TO SSPC SP-6
Finish ONE COAT OF SHOP PRIMER
Insulation NONE

REVISIONS / ISSUES
E ADD ITEM 58 & 59, ADD STRUCT. WELD. SS DEC 8 AM
D AS PER TUXTLA MARK-UP IP NOV 19 AM
C AS PER TUXTLA MARK-UP IP NOV 14 AM
B AS PER BIMAC MARK-UP IP NOV 7 AM
A AS PER BIMAC MARK-UP IP OCT 31 AM
No. Changes Made By Date App.

FABRICATED BY
BIMAC INDUSTRIES LTD.
CALGARY, ALBERTA
ASME Eng. Per: SHAWN SEITZ, C.E.T. Date: OCT 28/95

Project: **MORRISON PETROLEUM LTD.**
MUSKWA GAS PLANT
INLET SEPARATOR 84" I.D. x 20' - 0" S/S
V-301
SHEET ONE OF THREE
Drawn: K.P. Job No. 5114 Date: OCT 26/95
Checked: S.S. Scale: BIMAC Drawing No. Rev.
App'd: D.B. N.T.S. 95089 E

