


BILL OF MATERIALS

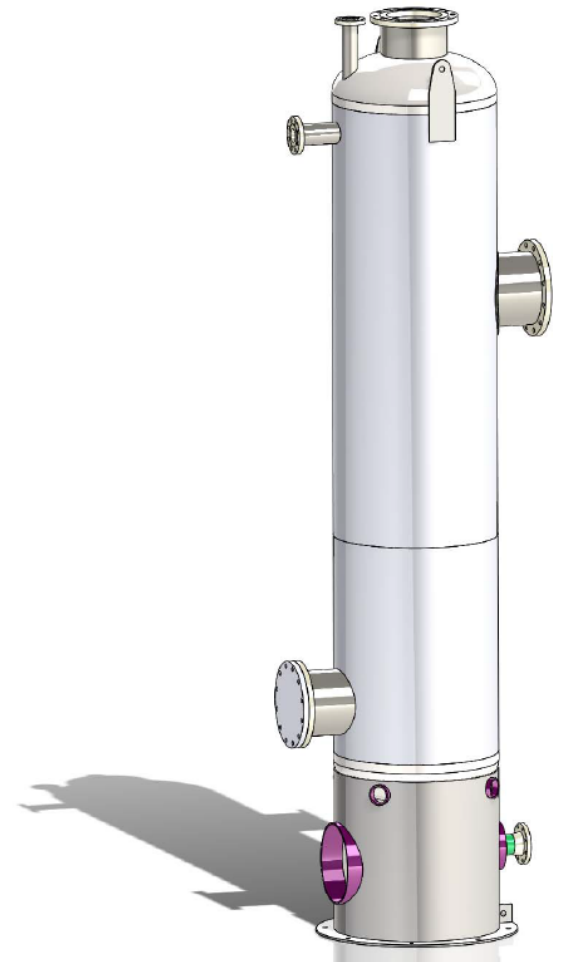
PCMK	STOCK CODE	QTY	SIZE	DESCRIPTION
1	213-114-001	2	36" OD	HEAD, 2:1 ELLIPTICAL, 0.4375" MIN, 1/2" MIN, SF", SA-516-70 (HOT FORMED)
2	102-114-001	1	36" OD	ROLLED CYLINDER, 3/8" THICK, x 12'-0" LG, SA-516-70
3	102-114-002	1	36" OD	ROLLED CYLINDER, 1/2" THICK, x 3'-5" LG, SA-516-70
4	201-106-006	2 L.F.	4"	PIPE, 80 (0.337" WALL) SMLS, SA-106B (ASME B36.10M)
5	201-106-013	4.5 L.F.	4"	PIPE, 120 (0.438" WALL) SMLS, SA-106B (ASME B36.10M)
6	201-107-009	2 L.F.	6"	PIPE, 80 (0.432" WALL) SMLS, SA-106B (ASME B36.10M)
7	201-112-003	1.5 L.F.	10"	PIPE, STD (0.365" WALL) SMLS, SA-106B (ASME B36.10M)
8	290-020-016	1.5 L.F.	18"	PIPE, STD (0.375" WALL) SMLS, SA-106B (ASME B36.10M)
9	205-104-348	1	14"	FLANGE, R.F.L.W.N, 150#, 16" L.G., SA-105 (ASME B16.5)
10	205-104-329	2	12"	FLANGE, R.F.L.W.N, 150#, 12" L.G., SA-105 (ASME B16.5)
11	-	-	-	DELETED
12	190-001-012	3	3"	FLANGE, R.F.L.W.N, 300#, 12" L.G., SA-105 (ASME B16.5)
13	205-104-129	1	2"	FLANGE, R.F.L.W.N, 300#, 12" L.G., SA-105 (ASME B16.5)
14	190-001-028	1	4"	FLANGE, R.F.W.N., SCH 120 BORE, 150#, SA-105 (ASME B16.5)
15	205-104-334	1	2"	FLANGE, R.F.W.N., SCH 160 BORE, 300#, SA-105 (ASME B16.5)
16	205-104-073	1	12"	FLANGE, R.F.B.F., 150#, SA-105 (ASME B16.5)
17	205-104-042	1	2"	FLANGE, R.F.B.F., 300#, SA-105 (ASME B16.5)
18	190-005-118	1	4"	ELBOW, LRBW, 90 DEGREE, SCH. 120, SA-234 WPB (ASME B16.9)
19	205-109-117	1	4"x2"	WOL, SCH. 160, SA-105 (ASME B16.9)
20	110-001-014	3	12"	GASKET, 304L SPIRAL WOUND, 150#, CS OUTER RING, GRAPHITE FILLED (ASME B16.20)
21	110-001-048	3	2"	GASKET, 304L SPIRAL WOUND, 300#, CS OUTER RING, GRAPHITE FILLED (ASME B16.20)
22	203-102-001	1	-	PLATE, 1/4" x 4" x 6 1/2" LG, SA-36 (NAMEPLATE BRACKET)
23	203-102-001	1	-	PLATE, 1/4" x 6 1/2" SQUARE, SA-36 (NAMEPLATE FACE)
24	203-102-001	2	-	PLATE, 1/4" x 5 15/16 x 0'-10 1/2" LG, SA-36 (NOZZLE B VORTEX BREAKER)
25	203-102-001	2	-	PLATE, 1/4" x 3'-0 1/8" ID x 3'-4" OD, SA-36 (INSULATION RING)
26	203-103-001	1	-	PLATE, 3/8" x 4" SQUARE, SA-36 (TAILING LUG)
27	203-103-001	1	-	PLATE, 3/8" x 1'-2 3/8" x 1'-8" LG, SA-36 (NOZZLE A DIVERTER TOP PLATE)
28	203-103-001	1	-	PLATE, 3/8" x 1'-8" x 2'-3 3/8" LG, SA-36 (NOZZLE A DIVERTER FACE PLATE)
29	203-104-001	2	-	PLATE, 1/2" x 3" x 5" LG, SA-36 (GROUNDING LUGS)
30	203-104-001	2	-	PLATE, 1/2" x 4" x 1'-6" LG, SA-36 (PADEYES)
31	203-106-001	2	-	PLATE, 3/4" x 1 1/2" x 4 7/8" LG, SA-36 (OUTER HINGE BRACKETS)
32	203-106-001	2	-	PLATE, 3/4" x 1 1/2" x 4 1/2" LG, SA-36 (INNER HINGE BRACKETS)
33	203-106-001	1	-	PLATE, 3/4" x 2'-6" ID x 3'-8" OD, SA-36 (BASEPLATE)
34	204-075-001	1	-	BAR, 3/4"φ x 1'-2 5/8" L.G., SA-36 (HINGE PIN)
35	204-050-001	1	-	BAR, 1/2"φ x 9 1/2" L.G., SA-36 (MANWAY HANDLE)
36	111-002-008	14	-	STUDS, 7/8" x 4 3/4" LG., SA-193B7 W/2 HH NUTS EA., SA-194GR2H, BLACK
37	111-002-048	10	-	STUDS, 5/8" x 3 1/2" LG., SA-193B7 W/2 HH NUTS EA., SA-194GR2H, BLACK
38	111-011-371	4	-	FLATWASHER, 3/4", CS
39	111-011-373	1	-	SPLIT COTTER PIN, 1/8" x 1 1/8" LG, CS, (ASME B18.8.1)
40	636-001-013	1	-	REPAD, 1/4" x 16 1/8" ID x 20" OD, ROLLED TO 18" ISR, SA-516-70 (NOZZLE A)
41	111-011-375	40	-	NESLON STUDS, 1/8 x 3/8 x 1 1/2" LG, R6P
42	190-045-002	1	-	TAG, 5.5" X 5.5", ASME CODE NAMEPLATE
43	190-100-003	4 GAL	-	SHERWIN WILLIAMS, EPO-PHEN FF SHALE GRAY (PART A B62A55 / PART B B62V55) - W/R7K15 THINNER
44	190-001-010	1	2"	FLANGE, R.F.L.W.N, 300#, 14" L.G., SA-105 (ASME B16.5)

DO NOT DUPLICATE



Certified By: **SUMMIT ENERGY EQUIPMENT**
41 PIONEER PKWY 903 951 1217
SULPHUR SPRINGS, TX 75482

200 PSIG M.A.W.P.	400°F TEMP.
0.125" C.A. HEAD, SHELL	14.7 PSIG M.A.E.W.P.
0.500" Head W.T.	-20°F M.D.M.T.
0.375" Shell W.T.	11398 SERIAL NO.
- ASSET NO.	2016 YEAR BUILT
-	004-V-502 EQUIPMENT NO.




DESIGN DATA	
ASME SECTION VIII, DIV. 1 2015 EDITION	P.W.H.T.: NO
INTERNAL DESIGN PRESSURE: 200 PSI	RT - 3
DESIGN TEMP.: 400 F	N.D.E.: -
EXTERNAL DESIGN PRESSURE: 14.7 PSI @ 300F	M.A.W.P.: 200 PSIG
HYDROTEST CONDITIONS: [260 PSIG] @ AMB.	WEIGHT EMPTY: [3,600 lb]
COR. ALLOW: [0.125"] NOZZLE NECKS: [0.125"]	WPS: SEE DWG# 300-021-009-001-01

PAINTING SPECIFICATIONS

EXTERIOR:
SURFACE PREPARATION: SSPC SP-10 (NEAR WHITE BLAST CLEANING)
PRIME COAT: EPOXY - SHERWIN WILLIAM, EPO-PHEN 4-6 MILS
INTERMEDIATE COAT: NONE
FINISH COAT: EPOXY - SHERWIN WILLIAM, EPO-PHEN 4-6 MILS (SHALE GRAY)

INTERIOR:
SURFACE PREPARATION: NONE
PRIME COAT: NONE
FINISH COAT: NONE

REV	DATE	REVISIONS	DWN	CHK	APP
2	03/08/16	REVISED ITEMS 4, 5, 7, & 8	TB	-	-
1	02/10/16	REV A& H PROJ, REV ITEM 13 AND ADDED ITEM 44	TB	-	-
0	01/28/16	ISSUE FOR FABRICATION	TB	-	-
A	11/04/15	ISSUE FOR APPROVAL	TB	-	-



SUMMIT ENERGY EQUIPMENT
41 HC PIONEER PKWY
SULPHUR SPRINGS, TX 75482
PH: 903-951-1217
www.summitenergyequipment.com

KPE
KP ENGINEERING

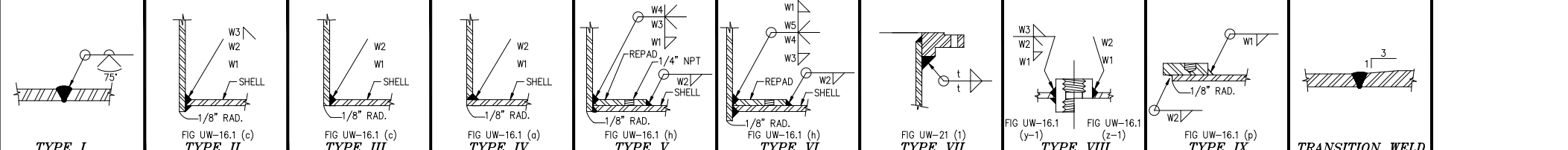
HOLLY FRONTIER J-1422 B
PENEX CONDENSATE RECOVERY POT
TAG# 004-V-502

DESIGN AND BILL OF MATERIAL DRAWING

PROJECT NUMBER	QUALITY CONTROL APPROVED	SHEET	REV.	DRAWING NUMBER
11398	DATE _____ BY _____	1 of 1	2	100-021-009-001-01

V	U	R	L1&2	H	D	C	B	A	MARK	QTY	SERVICE	SIZE	RATING	TYPE	BORE	SCH	WALL	LG	O.D.	MAT'L	OD&THK	MAT'L	BOM #	O.S.	I.S.	TYPE	W1	W2	W3	W4	W5	REMARKS					
											VENT	2"	300#	RFLWN	2.00"	-	0.655"	11 1/8"	3 5/16"	SA-105	-	-	44	SEE ELEV	FLUSH	III	3/8	FP	-	-	-	-	-	-	-		
											UTILITY CONNECTION	2"	300#	RFLWN	2.00"	-	0.655"	10 1/2"	3 5/16"	SA-105	-	-	13	8"	FLUSH	III	3/8	FP	-	-	-	-	-	-	-	W/BLIND	
											RELIEF	3"	300#	RFLWN	3.00"	-	0.810"	10 9/16"	4 5/8"	SA-105	-	-	12	8"	FLUSH	III	3/8	FP	-	-	-	-	-	-	-	-	-
											LEVEL BRIDLE	3"	300#	RFLWN	3.00"	-	0.810"	10 9/16"	4 5/8"	SA-105	-	-	12	8"	FLUSH	III	3/8	FP	-	-	-	-	-	-	-	-	-
											HANDHOLE	12"	150#	RFLWN	12.00"	-	1.190"	12"	14 3/8"	SA-105	-	-	10, 16, 20, 36	10"	FLUSH	III	7/16	FP	-	-	-	-	-	-	-	W/BLIND & HINGE ASSY (SEE DETAIL)	
											DRAIN	2"	300#	RFWN	160	160	0.344"	SEE DETAIL	-	SA-105	-	-	15	SEE ELEV	-	I	FP	-	-	-	-	-	-	-	-	-	
											VAPOR EQUALIZATION	12"	150#	RFLWN	12.00"	-	1.190"	6 1/4"	14 3/8"	SA-105	-	-	10	SEE ELEV	FLUSH	III	3/8	FP	-	-	-	-	-	-	-	-	-
											LIQUID OUTLET	4"	150#	RFWN	120	120	0.438"	SEE DETAIL	4 1/2"	SA-106B	-	-	5, 14, 18, 19	SEE ELEV	FLUSH	III	1/2	FP	-	-	-	-	-	-	W/VORTEX BREAKER (SEE DETAIL)		
											INLET	14"	150#	RFLWN	14.00"	-	1.00"	14 3/8"	16.00"	SA-105	20" x 1/4"	SA-516-70	9, 40	10"	FLUSH	V	5/16	3/16	FP	FP	-	-	-	-	-	W/INLET DIVERTER (SEE DETAIL)	

NOZZLE SCHEDULE



UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES.

PROPRIETARY AND CONFIDENTIAL

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