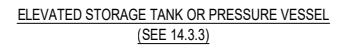
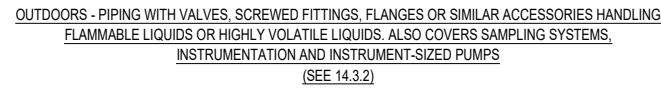
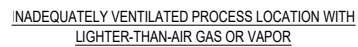


KERR-MCGEE OIL & GAS ONSHORE LP




CANNON LND9&10&16-11 - CANNON 1N,2C-11HZ
X20377
ISSUED AS-BUILT
03/31/2023

<u>REV No.</u>	<u>DRAWING No.</u>	<u>DESCRIPTION</u>
1	X20377-EL-7001	AREA CLASSIFICATION PLAN – ELECTRICAL PLOT PLAN
A	X20377-EL-7101	AREA CLASSIFICATION DETAILS – ELECTRICAL DETAILS – SHEET 1
A	X20377-EL-7102	AREA CLASSIFICATION DETAILS – ELECTRICAL DETAILS – SHEET 2




NOTE:

1. THIS DETAIL REASONABLY DEPICTS THE INTENT OF API RP500 (2012) SECTIONS 6.2.4.2 AND 6.2.4.3.

- 
 - CLASS I, DIVISION 1
- 
 - CLASS I, DIVISION 2
- 
 - ADDITIONAL DIVISION 2
 AREA SUGGESTED WHERE HVLS OR
 LARGE RELEASES OF VOLATILE
 PRODUCTS MAY OCCUR
 (THIS AREA IS UP TO
 BERM/CONTAINMENT HEIGHT ONLY)

REFERENCE DRAWINGS		REVISIONS							
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CANNON LND9&10&16-11 - CANNON 1N,2C-11HZ

DRAWN BY: B. CARTER	CREATION DATE: 02/14/17	AFE No.:	
APPROVED:	APPR. DATE:		
SCALE: NONE	DWG. No.: X20377-EL-7101	SHEET No. 1 OF 1	

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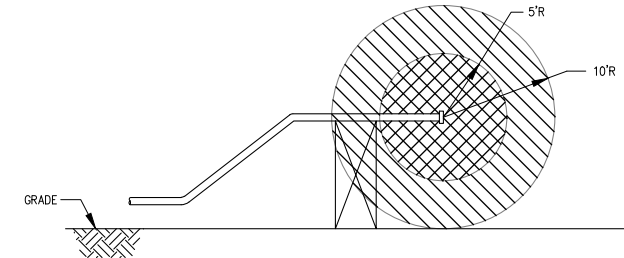


FIG. 49

BALL OR PIG LAUNCHING OR RECEIVING INSTALLATION
IN A NONENCLOSED ADEQUATELY VENTILATED AREA
(SEE 10.6.6.1.1, 10.6.6.1.2, 10.6.6.2.1 AND 10.6.6.2.2)

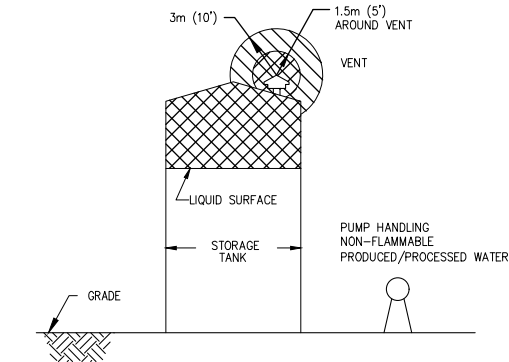


FIGURE 50

FLAMMABLE GAS-BLANKETED AND PRODUCED WATER-HANDLING EQUIPMENT IN
A NONENCLOSED ADEQUATELY VENTILATED AREA
(SEE API RP500 SECTION 10.8 AND 10.12.4)

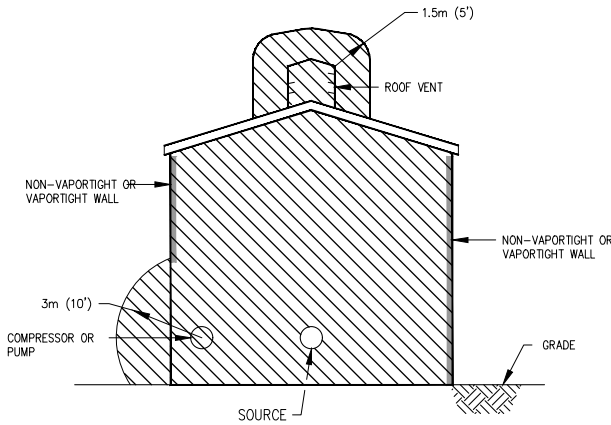
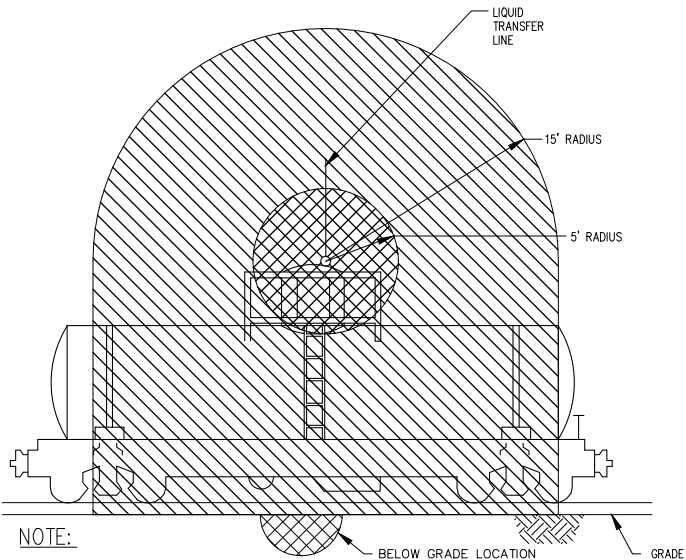


FIGURE 53

COMPRESSOR OR PUMP IN AN ADEQUATELY VENTILATED ENCLOSED AREA
(SEE API RP500 SECTION 10.9.2)

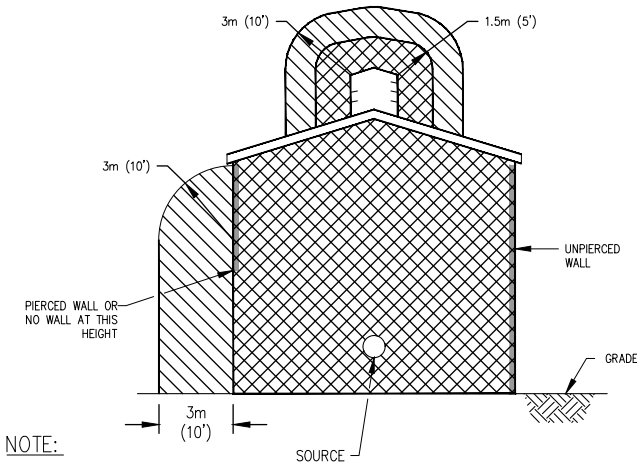


NOTE:

1. SEE NFPA 497 FIG. 3-8.22.

MATERIAL: FLAMMABLE LIQUID

FIGURE 12 MODIFIED
TANK CAR/TRUCK LOADING AND UNLOADING
OPEN SYSTEM, TOP OR BOTTOM TRANSFER
(SEE 8.2.2.4)



NOTE:

1. ROOF VENT IS DIVISION 1

FIGURE 54a

COMPRESSOR OR PUMP IN AN INADEQUATELY VENTILATED ENCLOSED AREA
(SEE API RP500 SECTION 10.9.3)

NOTE:

1. DIMENSION "D" IN FIGURE 57 IS THE DIAMETER (IN FEET) OF ROUND SUMPS AND THE EFFECTIVE DIAMETER OF SQUARE OR OTHER SHAPED SUMPS. THE EFFECTIVE DIAMETER IS DEFINED AS THE SURFACE AREA OF THE SUMP (IN FEET) DIVIDED BY (3.1416), SUBJECT TO A MAXIMUM OF 10 FEET. THE DISTANCE "D" IS MEASURED FROM THE PERIMETER OF THE SUMP.

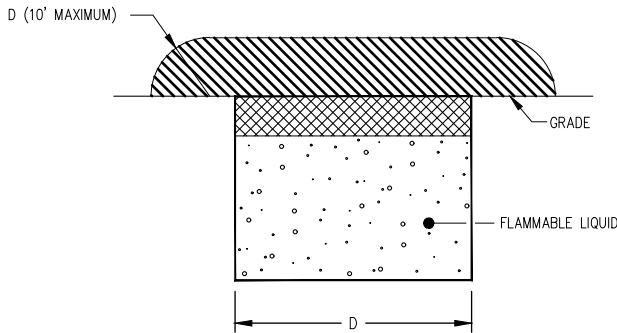


FIGURE 57

OPEN SUMP IN A NONENCLOSED ADEQUATELY VENTILATED AREA
(SEE API RP500 SECTION 10.12.1, 10.12.2, and 10.13 NOTE 4)

SECTION 10.6 OIL & GAS PROCESSING & STORAGE

SUBSECTION: 10.6.4 PIPING HEADER OR MANIFOLD

NOTE: AS UTILIZED IN THIS SECTION, A HEADER OR MANIFOLD IS AN ASSEMBLY COMPRISED OF PIPE FLANGES, VALVES AND MISCELLANEOUS FITTINGS USED TO COLLECT OR DISTRIBUTE A COMMON FLUID OR GAS TO OR FROM MULTIPLE FLOWLINES.

SUBSECTION 10.6.4.1:

THE AREA AROUND A NONCLOSED HEADER OR MANIFOLD LOCATED IN AN ADEQUATELY VENTILATED AREA IS UNCLASSIFIED FOR LOW PRESSURE APPLICATIONS. FOR MEDIUM TO HIGH PRESSURE APPLICATIONS, THE MINIMUM AREA IS CLASSIFIED DIVISION 2 FOR A DISTANCE OF 3M (10 FT) FROM THE OUTSIDE SURFACE OF THE MANIFOLD ASSEMBLY. ENGINEERING JUDGEMENT SHOULD BE APPLIED TO ASSESS THE NEED FOR EXTENDED CLASSIFICATION OF HIGH AND MEDIUM PRESSURE SYSTEMS AS DEFINED IN TABLE 1.

TABLE 1
PRESSURE ADJUSTMENT FACTOR
SECTION 10.1.3 - PRODUCTION FACILITIES
OIL & GAS PROCESSING AND STORAGE EQUIPMENT

API RP500 (THIRD ADDITION 2012, 2014 ERRATA)

PRESSURE ADJUSTMENT FACTOR			
DESCRIPTION	TYPICAL SERVICES	PRESSURE RANGE (PSIG)	ADJUSTMENT FACTOR
LOW PRESSURE	LP SEPARATION, FREE WATER KNOCK OUT, BAD OIL TANK, VAPOR RECOVERY UNIT, FUEL SYSTEM, ETC.	0-740 (0 kPa - 5102 kPa) (TYPICAL ANSI 300 CLASS FLANGE AND BELOW RATING OF 100' F)	1.0
MEDIUM PRESSURE	MP (MEDIUM PRESSURE) SEPARATION, GAS COMPRESSION, ETC.	741-1440 (5109 kPa - 9928 kPa) (TYPICAL ANSI 600 CLASS FLANGE RATING OF 100' F)	1.5
HIGH PRESSURE	HP SEPARATION, MANIFOLD, FLOW LINE, GAS COMPRESSION, DEHYDRATION, METERING, EXPORT, ETC.	GREATER THAN 1440 (9928 kPa) (TYPICAL ANSI 900 CLASS AND ABOVE FLANGE RATINGS AT 100' F)	2.5
NOTE: THE ADJUSTMENT FACTORS IDENTIFIED IN TABLE 1 WERE BASED ON USER EXPERIENCES AND DISPERSION MODELING METHODS DESCRIBED IN IP 15.			

SECTION 10.1.3

HIGHER PRESSURES REPRESENT LARGER RELEASES AND POSSIBLY INCREASED AREAS WHERE A FLAMMABLE MIXTURE MAY EXIST AFTER SUCH A RELEASE IS REALIZED. ENGINEERING JUDGEMENT SHOULD BE USED WHENEVER ADDRESSING HIGH PRESSURE HYDROCARBON STREAMS.

TABLE 1 INDICATES PRESSURE ADJUSTMENT FACTORS THAT SHOULD BE USED IN TO DETERMINE THE APPROPRIATE HAZARD RADIi OR DISTANCE OF ALL DIMENSIONS SHOWN IN THE APPROPRIATE FIGURE BASED ON EQUIPMENT OPERATING WITHIN THE INDICATED PRESSURE RANGE.

TO APPLY THE FACTORS, IDENTIFY THE THE TYPE OF EQUIPMENT, DETERMINE THE MAXIMUM OPERATING PRESSURE, USE THE APPROPRIATE FIGURE FOR THE EQUIPMENT TYPE. SELECT THE ADJUSTMENT FACTOR FROM TABLE 1, MULTIPLY THE ADJUSTMENT FACTOR TO BY THE HAZARD DISTANCES FROM THE FIGURE TO ESTABLISH THE AREA CLASSIFICATION HAZARD DISTANCES.

FOR EXAMPLE, THE AREA AROUND A SEPARATOR OPERATING AT 10342 kPa (1500 PSIG) WOULD BE CLASSIFIED IN ACCORDANCE WITH FIGURE 48. THE HAZARD RADII AT 3 m (10 FT) ILLUSTRATED IN FIGURE 48 WOULD BE INCREASED BY THE ADJUSTMENT FACTOR IN TABLE 1 THAT WOULD RESULT IN A HAZARD RADIUS OF 7.5 m (25 FT).

PLEASE SEE TABLE 1 FOR FURTHER INFORMATION REGARDING WHERE THESE FACTORS DO NOT APPLY.

LEGEND:



- CLASS I, DIVISION 1



- ADDITIONAL DIVISION 2
AREA SUGGESTED WHERE HVLS OR
LARGE RELEASES OF VOLATILE
PRODUCTS MAY OCCUR
(THIS AREA IS UP TO
BERM/CONTAINMENT HEIGHT ONLY)



- CLASS I, DIVISION 2

NOTES:

REFERENCE DRAWINGS

REVISIONS

KERR-MCGEE OIL & GAS ONSHORE LP

AREA CLASSIFICATION DETAILS
PRODUCTION FACILITY
ELECTRICAL DETAILS - SHEET 2

DRAWN BY: B. CARTER

CREATION DATE: 02/14/17

AFE No.:

APPROVED:

APPR. DATE:

SCALE: NONE

DWG. No.: X20377-EL-7102

SHEET No.

1 OF 1



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PLOT STYLE: ----

LAST SAVED: 3/29/2023 BY: Manuel Martinez
