



Independent Review Certificate

IRC No: IRCN00178USA07 Rev: 0
BV Job No: 031/HST/07

Issued within the scope of Bureau Veritas General Conditions of Service,
by BUREAU VERITAS Energy & Process

Equipment: 2" Valve Pocket
Assembly Id: VB2L-DR **Rev:** 0
Client: Phoinix Global, LLC

The design of the above assembly, as detailed in the drawings and specifications listed below, has been reviewed on the basis of the following references

Operation Limitations:

Max. Working Pressure: 15,000 psi **Temperature:** Per API 6A, Table 2
Testing Pressure: 22,500 psi **Service Condition:** Sour and Non-Sour
PSL Level: As specified by End User

Additional Operation Conditions:

The design review for the above assembly has taken into account the minimum Yield Strength and has been designed to be used with all API 6A temperature ranges and with Non-Sour fluid service or Sour fluid service when specified by end client.

Materials/Drawings/NDT:

All materials and NDT procedures for Valve Body Pockets can be found in the Phoinix Global, LLC Engineering Specification and Procedure Index Rev. A (Dec. 4, 2006). The final selection on materials and NDT is dependent on the temperature rating and service condition specified by the end client and provided that the materials meet API 6A and ASME requirements.

Design/Manufacturing Reference:

API 6A, 19th Edition, July 2004: Specification for Wellhead and Christmas Tree Equipment
Continued in the annex page(s)

Documentation:

| Drawing | Rev | Title | Yield Strength |
|--------------|-----|---------------------------------------|----------------|
| MDVP-2U | A | DETAIL, VALVE POCKET 2" UNION | 80 KSI MIN |
| MDVP-2F-BAR | C | DETAIL, VALVE POCKET 2" FLG-BAR | 80 KSI MIN |
| FORG03-SPM01 | 0 | FORGING, VALVE 2" UNION STD | 105 KSI MIN |
| VAN2L-H01 | 0 | VALVE ADJUSTING NUT-LT, 2" H2S | 75 KSI MIN |
| VB2L-S-DR | 0 | DESIGN REVIEW PACKAGE DATED 8/15/2006 | |

NDE Requirement:

Per API 6A, Chapter 7, Tables 11-26 as applicable.

Scope of Review:

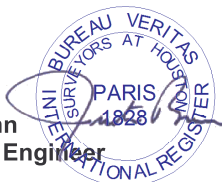
The Scope of this design review is to check the stress levels for the conditions listed in the above operational limitations, to the criterion set forth in the design reference documents.

The above design has been reviewed against the specified design references. As a result, BUREAU VERITAS considers that equipment manufactured to this design will satisfy the specified performance criteria. Consequently, this certificate is evidence for the verification of the equipment design for use under the following Regulations and associated guidance:

SI-913 (1996) Offshore Installations and Wells, (Design and Construction) Regulations

Made at Houston on
06-Apr-2007

Justin Brann
Mechanical Engineer



David Rang
Senior Structural Engineer



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Design/Manufacturing Reference (Cont'd):

Bureau Veritas Guidance Note NI 205: Certification of Well Control Equipment

NACE MR 0175 / ISO 15156: Petroleum and Natural Gas Industries Materials for Use in H₂S-containing environments in Oil and Gas Production Parts 1, 2 and 3; 2003 Edition; 2005 Technical Corrigenda