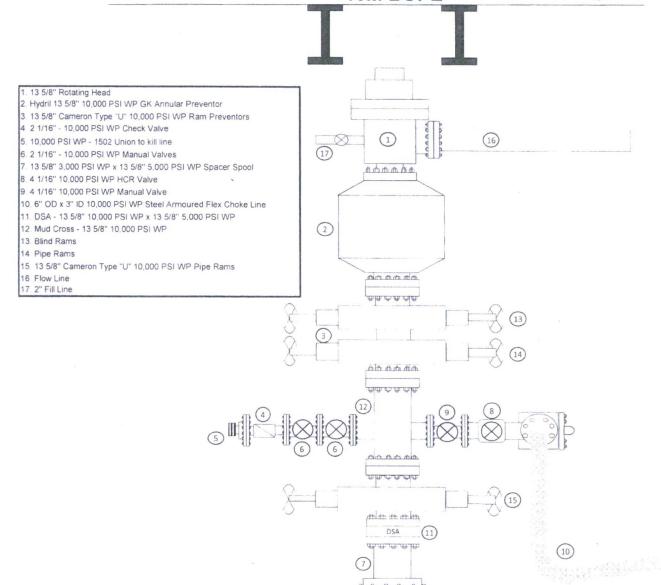
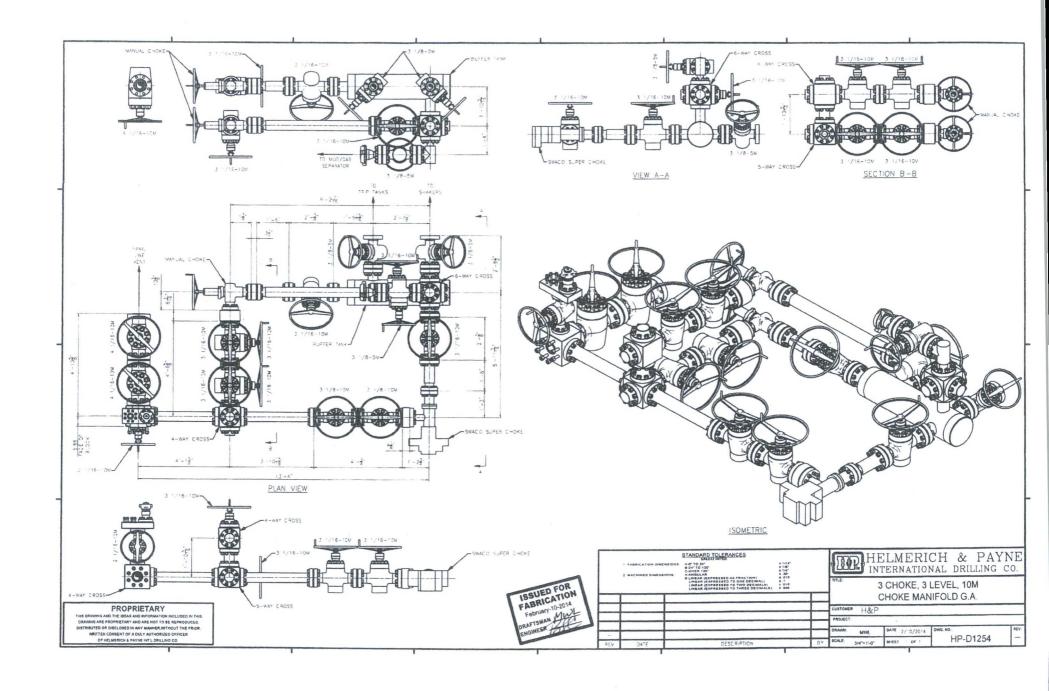
# Exhibit 1 EOG Resources 10M BOPE

M BOPE Rig Floor



An manah





External Pressure Efficiency

Connection Data Sheet

100 % of pipe

OD	Weight	Wall Th.	Grade	API Drift	Connection
7 5/8 in.	29.70 lb/ft	0.375 in.	VM 110 HC	6.750 in.	VAM® SLIJ-II

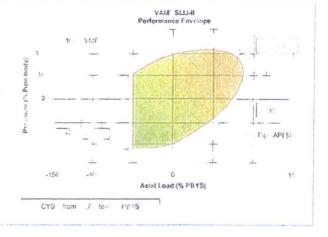
PIPE PROPERT	TIES	CONNECTION	PROPERTIES
Nominal OD	7.625 in.	Connection Type	Premium integral sem
Nominal ID	6.875 in.	Connection OD (nom)	7 711 in.
Nominal Cross Section Area	8.541 sqin.	Connection ID (nom)	6.820 in.
Grade Type	High Collapse	Make-up Loss	4.822 in.
Min. Yield Strength	110 ksi	Critical Cross Section	5.912 sqin.
Max. Yield Strength	140 ksi	Tension Efficiency	69.2 % of pipe
Min. Ultimate Tensile Strength	125 ksi	Compression Efficiency	48.5 % of pipe
		Internal Pressure Efficiency	100 % of pipe

CONNECTION PERFO	RMANCES	FIELD TORQUE	VALUES
Tensile Yield Strength	651 klb	Min. Make-up torque	11300 ft.lb
Compression Resistance	455 klb	Opti. Make-up torque	12600 ft.lb
Internal Yield Pressure	9470 psi	Max. Make-up torque	13900 ft.lb
Uniaxial Collapse Pressure	7890 psi		
Max. Bending Capacity	TDB		

20 °/100 ft

VAM® SLIJ-II is a semi-flush integral premium connection for all casing applications. It combines a near flush design with high performances in tension, compression and gas sealability.

VAM® SLIJ-II has been validated according to the most stringent tests protocols, and has an excellent performance history in the world's most prolific HPHT wells.



## Do you need help on this product? - Remember no one knows $VAM^6$ like VAM

is loogivamfieldservice com-

Max Bending with Sealability

angola@vamfield: econocam

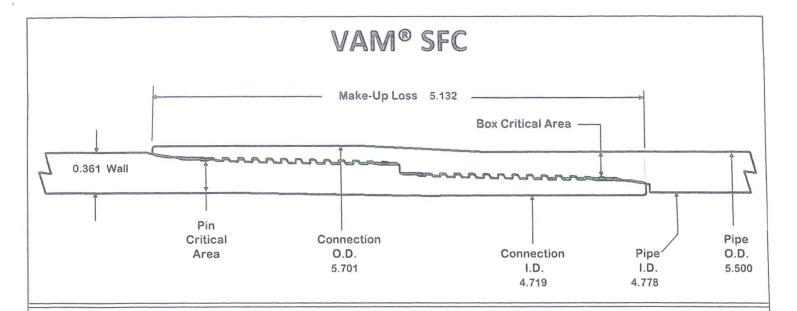
vir@ceroheldtorvire mi chinaigi.anheldservice.com bakınğı vamfıaldservice cum singapore@vamfieldservice : om australia@vainfieldscryice.com

Over 140 VAM® Specialists available worldwide 24/7 for Rig Site Assistance

Other Connection Data Sheets are available at www.vamservices.com







O.D. 5.500 WEIGHT 20.00

WALL 0.361

GRADE VST P110EC

Connection OD

**DRIFT** 4.653

5.701 in

### PIPE BODY PROPERTIES

Material Grade VST P110EC
Min. Yield Strength 125 ksi
Min. Tensile Strength 135 ksi

Outside Diameter 5.500 in Inside Diameter 4.778 in Nominal Area 5.828 sq.in.

Yield Strength 729 kips
Ultimate Strength 787 kips
Min Internal Yield 14,360 psi
\*High Collapse 12,090 psi

Contact: tech.support@vam-usa.com Ref. Drawing: SI-PD 100414 Rev.B

Date: Time: 14-Jun-16 2:31 PM

### CONNECTION PROPERTIES

4.719 in Connection ID Make up Loss 5.132 in Box Critical Area 4.083 sq.in. %PB Section Area 70.1% Pin Critical Area 4.123 sq.in. %PB Section Area 70.7% Yield Strength 510 kips Parting Load 551 kips Min Internal Yield 14,360 psi \*High Collapse 12,090 psi Wk Compression 357 kips Max Pure Bending 20 °/100 ft

### TORQUE DATA ft-Ib

min	opt	max
8,700	9,700	10,700

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USA

# TECHNICAL SPECIFICATIONS

These specifications are furnished for general information only and are not intended for design purposes. This information is preliminary and may change subject to a final design by VAM-USA Engineering. This is not a controlled document.

DWC/C-IS MS		Casing	5.500" O.D.	20.00 lb./ft.	VST P-110EC
VST P-110EC 125,000 135,000		Material Grade Minimum Yield Strength (p Minimum Ultimate Strengtl			
5.500 4.778 0.361 20.00 19.83 5.828		Pipe Dimensions  Nominal Pipe Body OD (in Nominal Pipe Body ID (in Nominal Wall Thickness (in Nominal Weight (lbs./ft.))  Plain End Weight (lbs./ft.)  Nominal Pipe Body Area (	) in.)	Houston, TX Phone: (713 Fax: (713)	3) 479-3200
729,000 12,090 14,360 13,100		Pipe Body Performance Minimum Pipe Body Yield Minimum Collapse Pressu Minimum Internal Yield Pr Hydrostatic Test Pressure	Strength (lbs.) ure (psi.) ressure (psi.)		
6.115 4.778 4.653 4.13 5.828 100.0		Connection Dimensions Connection OD (in.) Connection ID (in.) Connection Drift Diameter Make-up Loss (in.) Critical Area (sq. in.) Joint Efficiency (%)			
729,000 26,040 728,000 729,000 12,090 14,360 104.2	(1) (2) (3)	Connection Performance Joint Strength (lbs.) Reference String Length (API Joint Strength (lbs.) Compression Rating (lbs.) API Collapse Pressure Rate API Internal Pressure Resembles (Maximum Uniaxial Bend Freedom (lbs.)	(ft.) 1.4 Design ) ating (psi.) sistance (psi.)		
16,600 19,100 21,600	(5) (5) (6)	Approximated Field End Minimum Final Torque (ft. Maximum Final Torque (ft. Connection Yield Torque	I Torque Values -lbs.) tlbs.)	,	

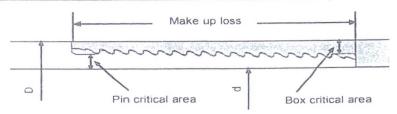
- (1) Joint Strength is the minimum pipe body yield strength multiplied by the connection critical area.
- (2) Reference String Length is the joint strength divided by both the weight in air and the design factor.
- (3) API Joint Strength is for reference only. It is calculated from Formulas 42 and 43 in the API Bulletin 5C3.
- (4) API Internal Pressure Resistance is calculated from Formulas 31, 32, and 35 in the API Bulletin 5C3.
- (5) Torque values are approximated and may be affected by field conditions.
- (6) Connection yield torque is not to be exceeded.

Connection specifications within the control of VAM-USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advited obtain current connection specifications and verify pipe mechanical properties for each application.



### FLUSHMAX-III Connection Data Sheet

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Pipe Body	Imperial	S.I.			
Grade	P110		P110		
Pipe OD (D)	7 5/8	in	193.68	mm	
Weight	29.7	lb/ft	44.25	kg/m	
Actual weight	29.0	lb/ft	43.26	kg/m	
Wall thickness (t)	0.375	in	9.53	mm	
Pipe ID (d)	6.875	in	174.63	mm	
Pipe body cross section	8.537	in <sup>2</sup>	5,508	mm <sup>2</sup>	
Drift Dia.	6.750	in	171.45	mm	

Connection Box OD ( W )	7.625	in	193.68	mm
PIN ID	6.875	in	174.63	mm
Pin critical area	4.420	in <sup>2</sup>	2,852	mm <sup>2</sup>
Box critical area	4.424	in <sup>2</sup>	2,854	mm <sup>2</sup>
Joint load efficiency	60	%	60	%
Make up loss	3.040	in	77.22	mm
Thread taper	1/16 ( 3/4 in per ft )			
Number of threads		5 thread	per in.	

**Connection Performance Properties** 2,506 kN Tensile Yield load 563.4 kips MPa M.I.Y.P. 52.2 7,574 psi MPa 36.9 Collapse strength 5,350 psi

Note

M.I.Y.P. = Minimum Internal Yield Pressure of the connection

### Torque Recommended

. o. que itecentimenaea				
Min.	8.700	ft-lb	11,700	N-m
Opti.	9.700	ft-lb	13,100	N-m
Max.	10,700	ft-Ib	14,500	N-m
Operational Max.	23,600	ft-Ib	32,000	N-m

Note Operational Max. torque can be applied for high torque application