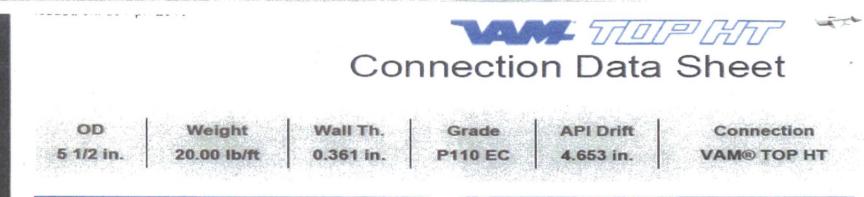
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Electronic Submission #371741 verified by the BLM Well Information System For EOG RESOURCES, N.C., sent to the Hobbs Name (Printed/Typed) STAN WAGNER Title REGULATORY ANALYST Signature (Electronic Submission) Date 03/30/201 APPROVED Approved By Mark 3 2017 Approved By Mark 3 2017 Conditions of approval, if any, are strached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Title BUREAU OF LAND MANAGEMENT Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Date	Change 5-1 Change 5-1 Casing Spe	//2", 23#, HCP110 //2", 20#, HCP110 c Sheets attached	VAM TOP HT TO: 5-1/2" VAN SG TO: 5-1/2", 23#	", 20#, ECP [.] , HCP110 V	10 VAM TOP H	łΤ	required.	
Name (Printed/Typed) STAN WAGNER Title REGULATORY ANALYST Signature (Electronic Submission) Date 03/30/2017 THIS SPACE FOR FEDERAL OR STATE OFFICE USE Approved By MAR 3 2017 Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Date BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE Date Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Date	14. I hereby certi	ify that the foregoing is	Electronic Submission #3	71741 verifie	d by the BLM We INC sent to the	ell Informatior e Hobbs	n System	
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(Instructions on page 2) ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **	Title 18 U.S.C. Sec States any false, f	tion 1001 and Title 43 ictitious or fraudulent s	U.S.C. Section 1212, make it a c tatements or representations as	crime for any p to any matter w	erson knowingly an ithin its jurisdictior	d willfully to ma	And in case of the local division of the loc	agency of the United
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5.500 i	in.
4.778	in.
5.828	sqin.
High Yield	
125	ksi
140	ksi
135	ksi
	4.778 5.828 High Yield 125 140

CONNECTION PROPERTIES

Connection Type	Premium T&C
Connection OD (nom)	6 071 in
Connection ID (nom)	4.715 in.
Make-up Loss	4.382 m.
Coupling Length	10.748 in.
Critical Cross Section	5 828 sqin
Tension Efficiency	100 % of pipe
Compression Efficiency	80 % of pipe
Internal Pressure Efficiency	100 % of pipe
External Pressure Efficiency	100 % of pipe

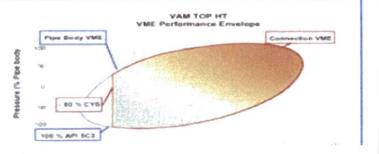
CONNECTION PERFORMAN	CES	
Tensile Yield Strength	729	klb
Compression Resistance	583	klb
Internal Yield Pressure	14360	psi
External Pressure Resistance	12090	psi
Max. Bending with Sealability (CAL IV)	20	°/100 ft
Max Load on Coupling Face	388	klb

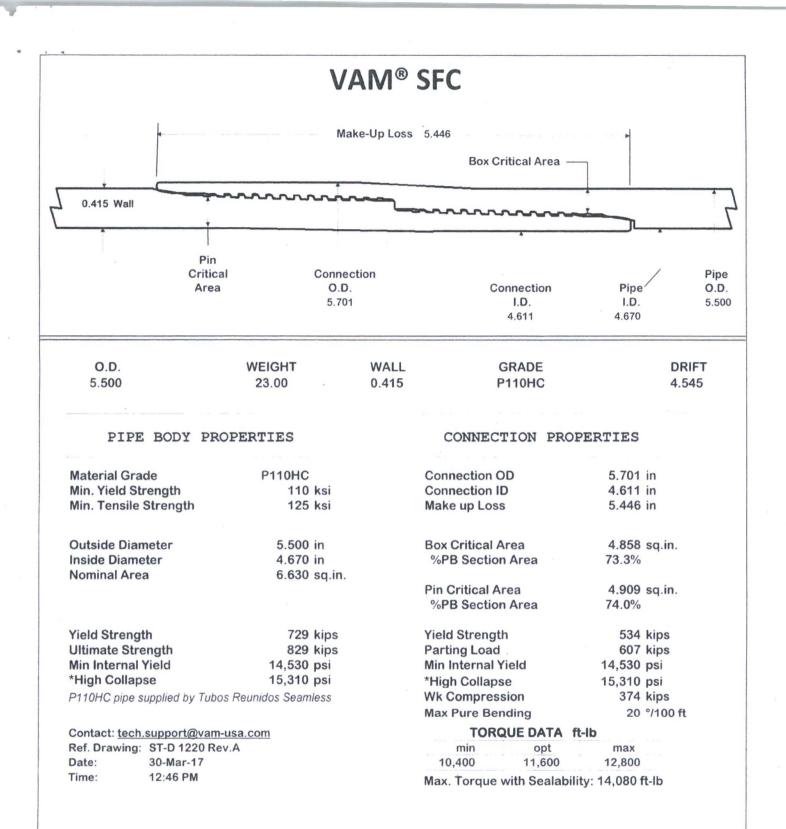
FIELD TORQUE VALUES					
Min. Make-up torque	10850	ft.lb			
Opti. Make-up torque	11950	ft.lb			
Max. Make-up torque	13050	ft.lb			
Field Liner Max	15900	ft.lb			

VAM® TOP HT (High Torque) is a T&C connection based on the main features of the VAM® TOP connection.

This connection provides reinforced torque capability for liners and where High Torque is anticipated due to string rotation during running operations (torque rotating liner while running, rotating casing when cementing). It has been tested as per ISO13679 CAL IV requirements.

VAM® TOP HT is interchangeable with VAM® TOP product line with







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