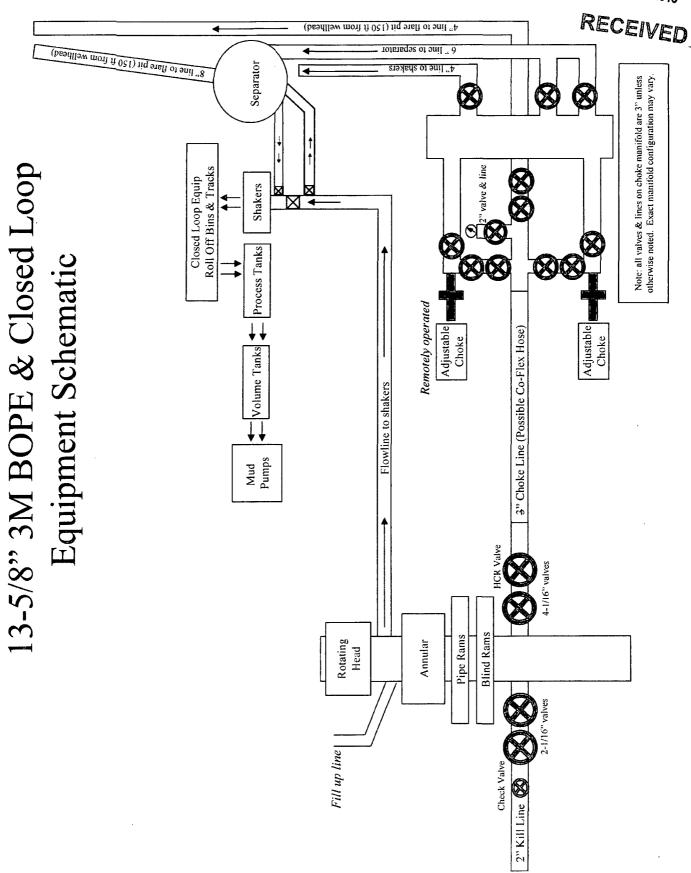
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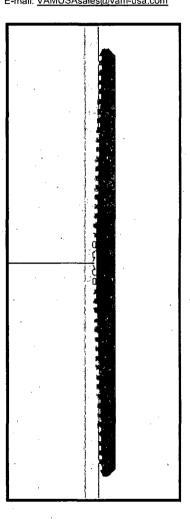
**Technical Specifications** 

Connection Type:	Size(O.D.):	Weight (Wall):	Grade:
DWC/C Casing	5-1/2 in	17.00 lb/ft (0.304 in)	P-110RY
standard .			

	Material
P-110RY	Grade
110,000	Minimum Yield Strength (psi)
125,000	Minimum Ultimate Strength (psi)
5.500	Pipe Dimensions
5.500	Nominal Pipe Body O.D. (in)
4.892	Nominal Pipe Body I.D.(in)
0.304	Nominal Wall Thickness (in)
17.00	Nominal Weight (lbs/ft)
16.89	Plain End Weight (lbs/ft)
4.962	Nominal Pipe Body Area (sq in)
•	Pipe Body Performance Properties
546,000	Minimum Pipe Body Yield Strength (lbs)
7,480	Minimum Collapse Pressure (psi)
10,640	Minimum Internal Yield Pressure (psi)
9,700	Hydrostatic Test Pressure (psi)
	Connection Dimensions
6.050	Connection O.D. (in)
4.892	Connection I.D. (in)
4.767	Connection Drift Diameter (in)
4.13	Make-up Loss (in)
4.962	Critical Area (sq in)
100.0	Joint Efficiency (%)
	Connection Performance Properties
546,000	Joint Strength (lbs)
22,940	Reference String Length (ft) 1.4 Design Factor
568,000	API Joint Strength (lbs)
546,000	Compression Rating (lbs)
7,480	API Collapse Pressure Rating (psi)
10,640	API Internal Pressure Resistance (psi)
91.7	Maximum Uniaxial Bend Rating [degrees/100 ft]
	Appayimated Field End Targus Values
12,000	Appoximated Field End Torque Values Minimum Final Torque (ft-lbs)
13,800	Maximum Final Torque (ft-lbs)
15,500	Connection Yield Torque (ft-lbs)
13,300	Connection field forque (It-IDS)



VAM-USA 4424 W. Sam Houston Pkwy. Suite 150 Houston, TX 77041 Phone: 713-479-3200 Fax: 713-479-3234 E-mail: VAMUSAsales@vam-usa.com



For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

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 were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

11/13/2013 3:17:42 PM



#### Fluid Technology

ContiTech Beattie Corp. Website: www.contitechbeattie.com

Monday, June 14, 2010

RE: Drilling

Drilling & Production Hoses Lifting & Safety Equipment

To Helmerich & Payne,

A Continental ContiTech hose assembly can perform as intended and suitable for the application regardless of whether the hose is secured or unsecured in its configuration. As a manufacturer of High Pressure Hose Assemblies for use in Drilling & Production, we do offer the corresponding lifting and safety equipment, this has the added benefit of easing the lifting and handling of each hose assembly whilst affording hose longevity by ensuring correct handling methods and procedures as well as securing the hose in the unlikely event of a failure; but in no way does the lifting and safety equipment affect the performance of the hoses providing the hoses have been handled and installed correctly it is good practice to use lifting & safety equipment but not mandatory

Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

ContiTech Beattle is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

Best regards,

Robin Hodgson Sales Manager ContiTech Beattle Corp

ContiTech Seattle Corp, 11535 Grittmore Park Drive, Houston, TX 77041 Phone: +1 (332) 327-0141 Fax: +1 (832) 327-0148 www.contitechbeattle.com



# R16 212

### PHOENIX

## QUALITY DOCUMENT

#### **PHOENIX RUBBER**

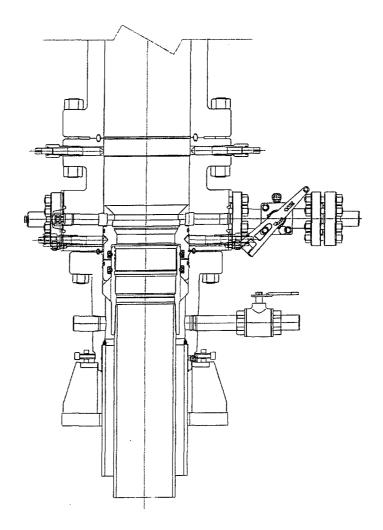
INDUSTRIAL LTD.

6728 Szeged, Budapesti út 10, Hungary • H-6701 Szeged, P. O. Box 152 none: (3662) 556-737 • Fax: (3662) 568-738 SALES & MARKETING: H-1092 Budapest, Réday u. 42-44. Hungary • H-1440 Budapest, P. O. Boz 26 Phone: (361) 456-4200 • Fax: (361) 217-2972, 456-4273 • www.taurusemerga.hu

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE					CERT. N	l°:	552	
PURCHASER: P	hoenix Beat	tie Co.		,	P.O. Nº.	151	9FA-871	
PHOENIX RUBBER order N°	170466	HOSE TYPE:	3"	(D	Cho	oke and Ki	ill Hose	
HOSE SERIAL Nº	34128	NOMINAL / AC	TUAL LE	NGTH:		11,43 n	n	
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All metal parts are flawless								
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Date: Ins	spector		Quali	ty Contr		NIY DID	2000	
29. April. 2002.	HOENIX RUBBER Industrial Ltd. Hose Inspection and Hose Inspection							

> VERIFIED TRUE CO. PHOENIX RUBBER & C.

## **FMC** Technologies



PRIMARY MODE

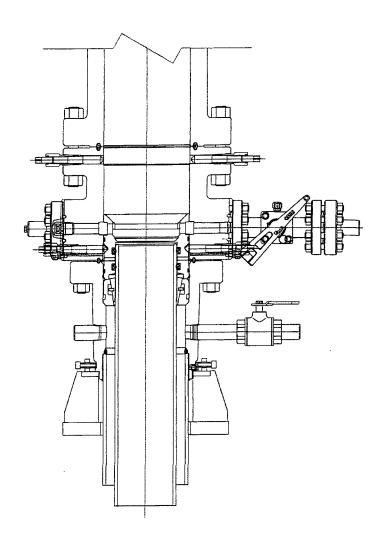
# DEVON ENERGY

ARTESIA S.E.N.M 13 3/8 X 9 5/8

QUOTE LAYOUT F18648 REF: DM100161737 DM100151315

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# **FMC** Technologies



CONTINGENCY MODE

# DEVON ENERGY ARTESIA S.E.N.M 13 3/8 X 9 5/8

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