BC Operating, Inc. Closed Loop System

HOBBS OCD

MAR 2 8 2016

RECEIVE

Design Plan

Equipment List

- 2 414 MI Swaco Centrifuges
- 2 MI Swaco 4 screen Moongoose *Shale Shakers*
- 2 double screen *Shakers* with rig inventory
- 2 CRI Haul off bins with track system
- 2 additional 500bbl *Frac tanks* for fresh and brine water
- 2-500bbl water tanks with rig inventory

Operation and Maintenance

The system along with equipment will be inspected numerous times a day by each tour to make sure all equipment is operating correctly. Routine maintenance will be done to keep system running properly. Any leak in system will be repaired and/or contained immediately and the OCD notified within 48 hours of the remediation process start.

Closure Plan

While drilling, all cuttings and fluids associated with drilling will be hauled off and disposed of via Controlled Recovery Incorporated Facilities Permit NM01-0006.

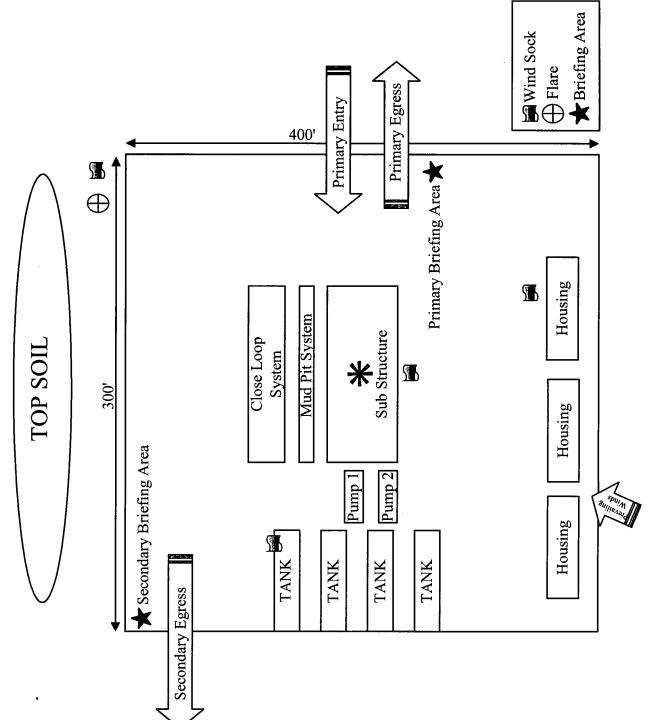
^{*}Equipment manufactures may vary due to availability but components will not.



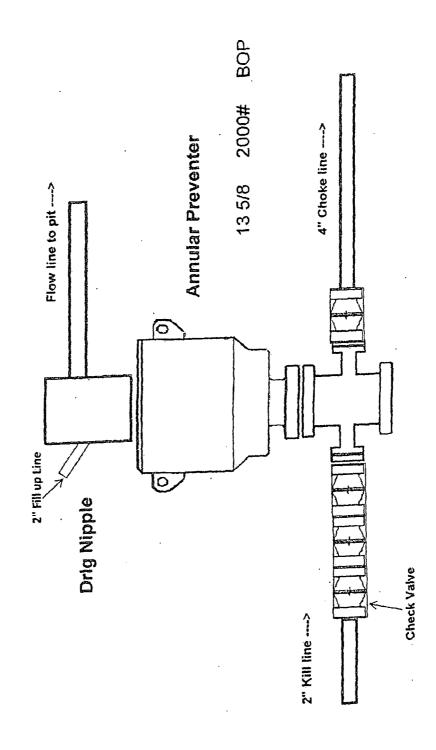
BC Operating, Inc. Gay Nineties #3H

H2S Well Site Orientation - Drill Rig Orientation

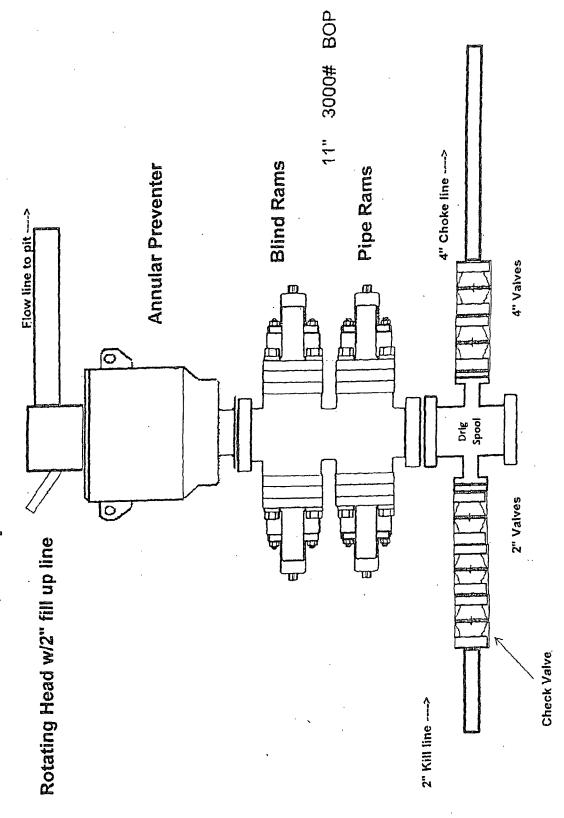
SHL: 1910' FSL & 2256' FEL, Sec. 36, T-19S, R-32E



2,000 psi BOP Schematic



3,000 psi BOP Schematic









51/2-in 17:0 pp.(12-110) Tejas Tubular Reduced Stress

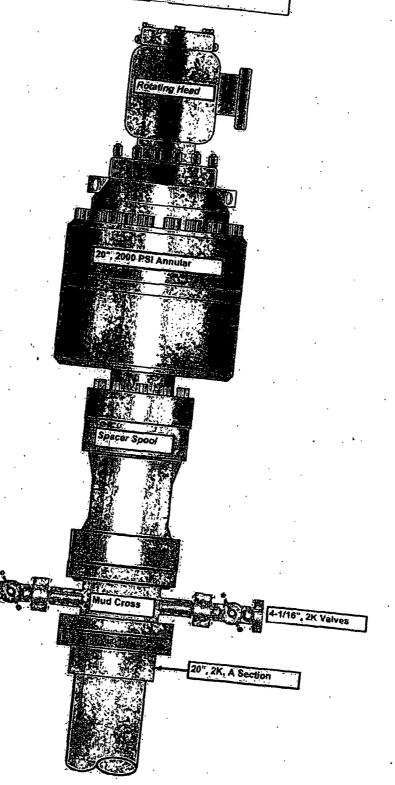
Pipe Body	Data
	Imperial [Metric]
Nominal OD (in [mm])	5.500 (139.7)
Nominal weight (lbm/ft)	17.0
Minimum yield of material (psi [kPa])	110,000 [758,423]
Minimum ID (in [mm])	4.892 [124.3]
Diff (in [imin]) (1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.767 [121.1]
Wall thickness (in [mm])	0.304 [7.72]
Plain end weight (lbm/ft)	16.89
Cross sectional area (in² [mm²])	4.962 [3,201]
Performance	
API tensile yield (lbf-[N])	546,000 [2,428,729]
API internal yield pressure (psi [kPa])	10,640 [73,360]
API external yield pressure (psi [kPa]).	7,480 [51 573]
Connection Dimensions	
Coupling OD (in [mm])	6 050 [153.7]
Coupling ID (in [mm])	4.892 [124.3]
Coupling length (in [mm])	9.375 [238-1]
Make-up loss (in [mm])	4.125 [104.8]
Threads per inch	escriptivation in 1852 the contract of the second
Connection Performance	
Tensile yield strength* (lbf:[N])	546,000 [2,428,729]
Internal yield pressure** (psi [kPa])	10,640 [73,360]
External yield pressure** (psi [kPa])	7,480 (51,573)
Compression strength** (lbf [N])	546,000 [2,428,729]
Working bending rate; tested (9/100 ft)	20
Bending rate, calculated (9/100 ft)	92
**Values based on 100% efficiency	
Torque Values	
Minimum (lpf-ft-(N-m))	6,800 (9,219)
Optimum, recommended make-up (lbf.ft [N.m])	7,200 [9,762]
Maximum,(lbf.ft-[N.m])	8,600 [11,660]
Yield (lbf.ft [N.m])	17,000 [23,049]
Max. operational torque (lbf.ft [N.m])	15,500 [21,015]

Inspection Criteria

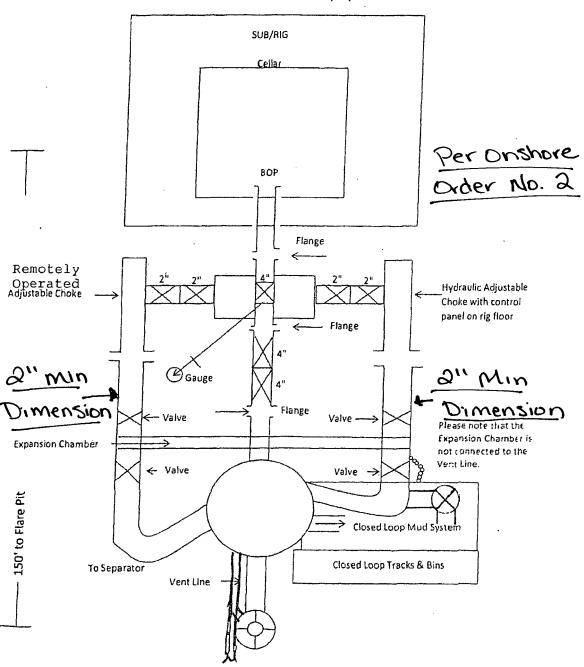
All the material is inspected to 5% Test notch inspection for OD/ID, Long/Trans and wall check as per API/ASTM requirements through EMI/SEA.

Note: All the information provided is general data. This document is not a warranty/quality certificate. Tejas Tubular reserves the right to change any and all of this data at any time for corrections and product improvement. This is an uncontrolled document.

20" 2K Annular



3M Choke Manifold Equipment





Fluid Technology

Quality Document

QUALITY CONTROL	No.: QC-DB- 89 / 2011			
·	Page: 1 / 54			
Hose No.:	Revision: 0			
60313, 60314, 60315, 60316	Date: 07. March 2011.			
	Prepared by :			
	Appr. by: Hagn Lights			

CHOKE AND KILL HOSES

id.: 3" 68,9 MPa x (25 ft) 7,62 m 1 pc x (45 ft) 13,72 m 3 pcs

DATA BOOK

Purchaser:

Purchaser Order No.:

ContiTech Rubber Order No.: 493934

ContiTech Beattie Co. Order No.: 004795

ASSET 66-0638, 66-0639, 66-0640, 66-0641



OC-DB- 89/2011

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Fluid Technology

Quality Document

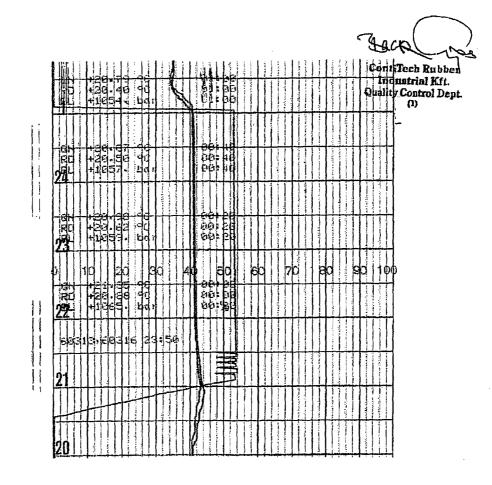
				T			
QUALITY CONTROL INSPECTION AND TEST CERTIFICATE			CERT.	CERT. Nº: 246			
PURCHASER:	ContiTech B	eattie Co.		P.O. Nº		004795	
CONTITECH ORDER Nº:	493934	HOSE TYPE:	מו "3		Choke and Kill Hose		
HOSE SERIAL N°:	60313	NOMINAL / ACTUAL LENGTH: 7,62 m / 7,63 m					
W.P. 68,9 MPa 1	0000 psi	T.P. 103,4	MPa 150	00 psi	Duration:	60	min
Pressure test with water at ambient temperature See attachment. (1 page) 10 mm = 10 Min.							
→ 10 mm = 20 MP. COUPLINGS Type	a 	Serial N°		Quality		Heat N°	· : · · · · · · · · · · · · · · · · · ·
3" coupling with	324	320		AISI 4130		H0434	
4 1/16" Swivel Flange en	d		,	AISI 4130		31742	
Hub			,	NSI 4130		B2297A	
ASSET NO.: 66-0638 API Spec 16 C Temperature rate:"B"							
	WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.						
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements. COUNTRY OF ORIGIN HUNGARY/EU							tested in
Date: 01. March 2011.	Inspector		Quality Control Industrial Kft. Quality Control Dept. (1)				

ContiTech Rubber Industrial Kit. Buckspestl út 10., Szeged H 6728 P.O.Box 152 Szeged H-6701 Phone: +36 62 566 737
Fax: +36 62 566 738
e-mail: Internet; www.conblecti-rubbeshu

The Court of Csongråd County as Registry Court Registry Court No: HU 06-09-002502 EU VAT No: HU11087209 Bork data Commerzbenk Zrt. Budapest 14220108-26830003-00000000

No: 246, 249

Page: 1/1



CONTITECH RUBBER Industrial Kft.

No: QC-DB- 89 / 2011 Page: 9 / 54



Hose Data Sheet

CRI Order No.	493934	
Customer	ContiTech Beattle Co.	
Customer Order No	PO4795, PBC10685	
Item No.	3	
Hose Type	Flexible Hose	
Standard	API SPEC 16 C	
Inside dia in inches	3	
Length	25 ft	
Type of coupling one end	FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGEC/W BX155 ST/ST INLAID RING GR	
Type of coupling other end	FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GR	
H2S service NACE MR0175	Yes	
Working Pressure	10 000 psi	
Design Pressure	10 000 psi	
Test Pressure	15 000 psi	
Safety Factor	2,25	
Marking	USUAL PHOENIX	
Cover	NOT FIRE RESISTANT	
Outside protection	St.steel outer wrap	
Internal stripwound tube	No	
Lining	OIL RESISTANT	
Safety clamp	Yes	
Lifting collar	Yes	
Element C	Yes	
Safety chain	No	
Safety wire rope	Yes	
Max.design temperature [°C]	100	
Min.design temperature [°C]	-20	
MBR operating [m]	1,60	
MBR storage [m]	1,40	
Type of packing	WOODEN CRATE ISPM-15	

