AUG 1 6 2018

Carlsbad Field Office OCD Hobbs

Form 3160-3 (March 2012)

RECEIVED STATES

DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0137 Expires October 31, 2014 Lease Serial No.,

	BUREAU OF LAND MANAGEMENT							
APPLICATION FOR PERMIT TO I		6. If Indian, All	otee or Tribe Name					
Ia. Type of work: ✓ DRILL REENTE	R		Agreement, Name and No.					
lb. Type of Well: Oil Well Gas Well Other	✓ Single Zone Multipl	e Zone FASCINATOR	ind Well No. 73222 FEDERAL COM 604H					
2: Name of Operator COG OPERATING LLC 29	137)	9. APT Well No.						
3a. Address 600 West Illinois Ave Midland TX 79701	3b. Phone No. (include area code) (432)683-7443	10 Field and Pool WILDCAT / BO						
4. Location of Well (Report location clearly and in accordance with any	State requirements.*)	11. Sec., T. R. M.	or Blk. and Survey or Area					
At surface NWNW / 210 FNL / 360 FWL / LAT 32.19517. At proposed prod. zone SWSW / 200 FSL / 450 FWL / LAT		SEC 30 / T24S	/ R35E / NMP					
<ol> <li>Distance in miles and direction from nearest town or post office*</li> <li>miles</li> </ol>		12. County or Par LEA	ish 13. State NM					
15. Distance from proposed* location to nearest 200 feet property or lease line, ft. (Also to nearest drig. unit line, if any)	1961.36	Y Spacing Unit dedicated to 320						
18. Distance from proposed location* to nearest well, drilling, completed, 2974 feet applied for, on this lease, ft.	19: Proposed Depth 12652 feet / 22476 feet	20. BLM/BIA Bond No. on fil FED: NMB000215	e					
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3372 feet	22. Approximate date work will start 07/01/2018	* 23. Estimated du 30 days	ration					
	24. Attachments							
The following, completed in accordance with the requirements of Onshord  1. Well plat certified by a registered surveyor.  2. A Drilling Plan.  3. A Surface Use Plan (if the location is on National Forest System I SUPO must be filed with the appropriate Forest Service Office).	4. Bond to cover the Item 20 above).  ands, the 5. Operator certifica	e operations unless covered b	y an existing bond on file (see					
25. Signature (Electronic Submission)	Name (Printed/Typed) Mayte Reyes / Ph: (575)7	48-6945	Date 03/27/2018					
Title Regulatory Analyst	,							
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)23	34-5959	Date 08/02/2018					
Title Assistant Field Manager Lands & Minerals	Office CARLSBAD							
Application approval does not warrant or certify that the applicant holds conduct operations thereon.	s legal or equitable title to those rights	in the subject lease which wo	uld entitle the applicant to					

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.

(Continued on page 2)
608 Rec 08/16/18

Approval Date: 08/02/2018

(Instructions on page 2)

Soull dad

#### INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

## NOTIČES

The Privacy Act of 1974 and regulation in 43 CFR 2:48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts. ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to-civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

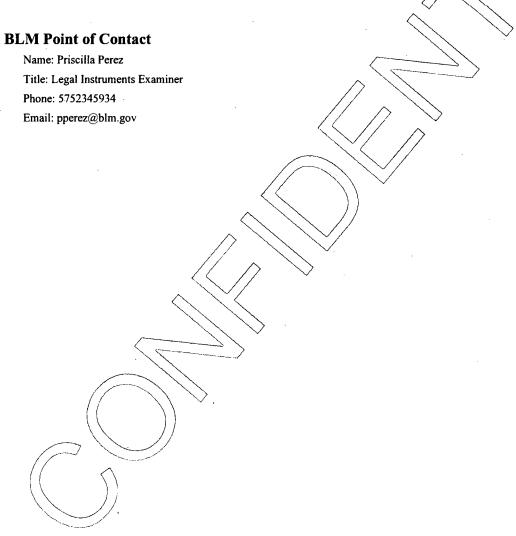
(Continued on page 3) (Form 3160-3, page 2)

**Approval Date: 08/02/2018** 

### **Additional Operator Remarks**

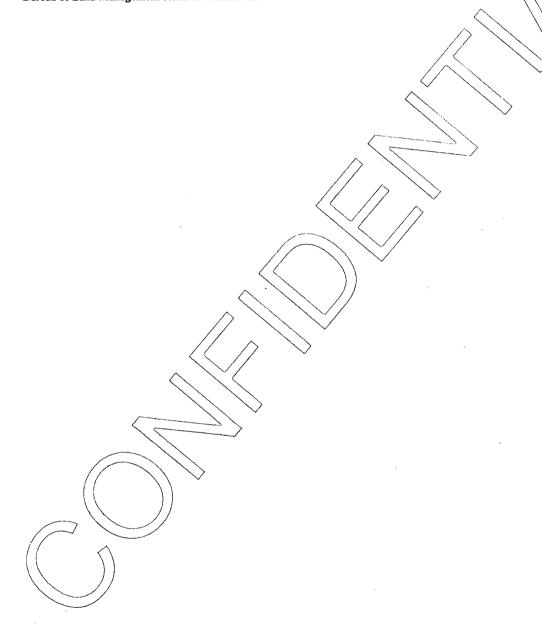
### **Location of Well**

1. SHL: NWNW / 210 FNL / 360 FWL / TWSP: 24S / RANGE: 35E / SECTION: 30 / LAT: 32.19517 / LONG: -103.413996 ( TVD: 0 feet, MD: 0 feet)
PPP: SWNW / 1320 FNL / 450 FWL / TWSP: 24S / RANGE: 35E / SECTION: 30 / LAT: 32.177475 / LONG: -103.413664 ( TVD: 12604 feet, MD: 18600 feet )
PPP: NWSW / 2640 FSL / 450 FWL / TWSP: 24S / RANGE: 35E / SECTION: 31 / LAT: 32.17396 / LONG: -103.413656 ( TVD: 12620 feet, MD: 19900 feet )
PPP: NWNW / 0 FNL / 450 FWL / TWSP: 24S / RANGE: 35E / SECTION: 31 / LAT: 32.18099 / LONG: -103.413673 ( TVD: 12587 feet, MD: 17300 feet )
PPP: NWNW / 330 FNL / 450 FWL / TWSP: 24S / RANGE: 35E / SECTION: 30 / LAT: 32.18482 / LONG: -103.413691 ( TVD: 12450 feet, MD: 12650 feet )
PPP: NWSW / 2640 FSL / 450 FWL / TWSP: 24S / RANGE: 35E / SECTION: 30 / LAT: 32.188369 / LONG: -103.413691 ( TVD: 12554 feet, MD: 14650 feet )
BHL: SWSW / 200 FSL / 450 FWL / TWSP: 24S / RANGE: 35E / SECTION: 31 / LAT: 32.167275 / LONG: -103.413691 ( TVD: 12652 feet, MD: 22476 feet )



## **Review and Appeal Rights**

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.



(Form 3160-3, page 4)



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

# Application Data Report

Submission Date: 03/27/2018

**Operator Name:** COG OPERATING LLC

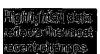
Well Name: FASCINATOR FEDERAL COM

Well Type: OIL WELL

APD ID: 10400028755

Well Number: 604H

Well Work Type: Drill



**Show Final Text** 

### Section 1 - General

APD (D:

10400028755

Tie to previous NOS?

Submission Date: 03/27/2018

**BLM Office: CARLSBAD** 

**User:** Mayte Reyes

Title: Regulatory Analyst

Federai/Indian APD: FED

is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM014164

**Lease Acres: 1961.36** 

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

**Permitting Agent? NO** 

**APD Operator: COG OPERATING LLC** 

Operator letter of designation:

### Operator Info

**Operator Organization Name: COG OPERATING LLC** 

Operator Address: 600 West Illinois Ave

**Zip:** 79701

**Operator PO Box:** 

**Operator City: Midland** 

State: TX

**Operator Phone:** (432)683-7443

Operator Internet Address: RODOM@CONCHO.COM

### **Section 2 - Well Information**

Well in Master Development Plan? NO

Mater Development Plan name:

Well in Master SUPO? NO

**Master SUPO name:** 

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: FASCINATOR FEDERAL COM

Well Number: 604H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WILDCAT

Pool Name: BONE SPRING

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Well Name: FASCINATOR FEDERAL COM

Well Number: 604H

Describe other minerals:

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:

Number: 604H AND 706H

Well Class: HORIZONTAL

**FASCINATOR FEDERAL COM** 

Number of Legs:

Well Work Type: Drill Well Type: OIL WELL

**Describe Well Type:** 

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town: 12 Miles

Distance to nearest well: 2974 FT

Distance to lease line: 200 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat:

COG Fascinator 604H C102 20180327084654.pdf

Well work start Date: 07/01/2018

**Duration: 30 DAYS** 

### **Section 3 - Well Location Table**

Survey Type: RECTANGULAR

**Describe Survey Type:** 

Datum: NAD83

**Vertical Datum: NAVD88** 

Survey number:

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	210	FNL	360	FWL	248	35E	30	Aliquot NWN W	32.19517	- 103.4139 96	LEA	1	NEW MEXI CO	S	STATE	337 2	0	0
KOP Leg #1	210	FNL	360	FWL	248	35E	30	Aliquot NWN W	32.19517	- 103.4139 96	LEA	NEW MEXI CO		S	STATE	337 2	0	0
PPP Leg #1	264 0	FSL	450	FWL	24S	35E	30	Aliquot NWS W	32.18836 9	- 103.4136 91	LEA	NEW MEXI CO	NEW MEXI CO	F	FEE	- 918 2	146 50	125 54



# U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

# Drilling Plan Data Report

Submission Date: 03/27/2018

**Operator Name: COG OPERATING LLC** 

Well Name: FASCINATOR FEDERAL COM

Weil Number: 604H

**Show Final Text** 

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Well Type: OIL WELL

APD ID: 10400028755

Well Work Type: Drill

# **Section 1 - Geologic Formations**

Formation			True Vertical				Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	
1	UNKNOWN	3272	0	0		NONE	No
2	RUSTLER	2168	1104	1104		NONE	No
3	TOP SALT	1971	1301	1301	SALT	NONE	No
4	BOTTOM SALT	-1877	5149	5149	ANHYDRITE	NONE	No
5	LAMAR	-2203	5475	5475	LIMESTONE	NATURAL GAS,OIL	No
6	BELL CANYON	-2226	5498	5498		NONE	No
7	CHERRY CANYON	-3201	6473	6473		NATURAL GAS,OIL	No
8	BRUSHY CANYON	-4809	8081	8081		NATURAL GAS,OIL	No
9	BONE SPRING LIME	-6052	9324	9324	SANDSTONE	NATURAL GAS,OIL	No
10	UPPER AVALON SHALE	-6402	9674	9674		NATURAL GAS,OIL	No
11		-6643	9915	9915		NATURAL GAS,OIL	No
12	BONE SPRING 1ST	-7211	10483	10483		NATURAL GAS,OIL	No
13	BONE SPRING 2ND	-7802	11148	11148	<del></del>	NATURAL GAS,OIL	No
14	BONE SPRING 3RD	-8867	12139	12139		NATURAL GAS,OIL	Yes
15	WOLFCAMP	-9297	12569	12569	SHALE	NATURAL GAS,OIL	No

## **Section 2 - Blowout Prevention**

Well Name: FASCINATOR FEDERAL COM Well Number: 604H

Pressure Rating (PSI): 10M

Rating Depth: 12652

Equipment: Annular, Blind Ram, Pipe Ram. Other accessories to the BOP equipment will include a Kelly cock and floor

safety valve (inside BOP) and choke lines and choke manifold

Requesting Variance? YES

**Variance request:** A variance is requested for the use of a flexible choke line from the BOP to the choke manifold. See attached for specs and hydrostatic test chart.

**Testing Procedure:** BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

### **Choke Diagram Attachment:**

COG Fascinator 604H\_10M Choke\_20180323083537.pdf

### **BOP Diagram Attachment:**

COG\_Fascinator\_604H\_10M\_BOP\_20180323083559.pdf

COG\_Fascinator\_604H\_Flex\_Hose\_20180323083614.pdf

Pressure Rating (PSI): 5M

Rating Depth: 12140

**Equipment:** Annular. Accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Requesting Variance? YES

**Variance request:** A variance is requested for the use of a flexible choke line from the BOP to the choke manifold. See attached for specs and hydrostatic test chart.

**Testing Procedure:** BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

### **Choke Diagram Attachment:**

COG\_Fascinator\_604H\_5M\_Choke\_20180323083453.pdf

#### **BOP Diagram Attachment:**

COG Fascinator 604H 5M BOP 20180323083500.pdf

COG Fascinator 604H Flex Hose 20180323083517.pdf

Well Name: FASCINATOR FEDERAL COM

Well Number: 604H

# Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	7	0	1190	0	1190	-9411	- 10581	1190	J-55	54.5	STC	2.12	5.92	DRY	7.93	DRY	7.93
. 5	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	12140	0	12140		- 21491	12140	HCL -80		OTHER - BTC	1.45	1.03	DRY	1.97	DRY	1.97
3	PRODUCTI ON	8.5	5.5	NEW	API	N	0	22476	0	22476		- 29318	22476	P- 110		OTHER - BTC	1.77	2.09	DRY	2.49	DRY	2.49

### **Casing Attachments**

Casing ID: 1

String Type: SURFACE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

COG\_Fascinator\_604H\_Casing\_Plan\_20180323083652.pdf

Well Name: FASCINATOR FEDERAL COM Well Number: 604H

### **Casing Attachments**

Casing ID: 2

String Type: INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

COG\_Fascinator\_604H\_Casing\_Plan\_20180323083644.pdf

Casing ID: 3

String Type: PRODUCTION

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

 $COG\_Fascinator\_604H\_Casing\_Plan\_20180323083637.pdf$ 

### **Section 4 - Cement**

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1190	520	1.75	13.5	910	50	Class C	4% Gel
SURFACE	Tail		0	1190	250	1.34	14.8	335	50	Class C	2% CaCl2
INTERMEDIATE	Lead		0	1214 0	1000	2.8	11	2800	50	Lead: NEOCEM	As needed
INTERMEDIATE	Tail		0	1214 0	300	1.1	16.4	330	50	Class H	As needed
PRODUCTION	Lead		0	2247 6	400	2	12.7	800	35	Lead: 35:65:6 H BLEND	As needed

Well Name: FASCINATOR FEDERAL COM Well Number: 604H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		0	2247 6	2850	1.24	14.4	3534	35	Tail: 50:50:2 Class H Blend	As needed

# **Section 5 - Circulating Medium**

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

# **Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	НА	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1214 0	2247 6	OIL-BASED MUD	10.5	12.5							ОВМ
0	1190	OTHER : FW Gel	8.4	8.6							FW Gel
1190	1214 0	OTHER : Diesel Brine Emulsion	8.6	9.4							Diesel Brine Emulsion

Well Name: FASCINATOR FEDERAL COM

Well Number: 604H

# Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

None planned

List of open and cased hole logs run in the well:

CNL,GR

Coring operation description for the well:

None planned

### Section 7 - Pressure

**Anticipated Bottom Hole Pressure: 8225** 

**Anticipated Surface Pressure: 5441.56** 

Anticipated Bottom Hole Temperature(F): 180

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

COG\_Fascinator\_604H\_H2S\_Schem\_20180323084203.pdf COG\_Fascinator\_604H\_H2S\_SUP\_20180323084210.pdf

### **Section 8 - Other Information**

Proposed horizontal/directional/multi-lateral plan submission:

COG\_Fascinator\_604H\_AC\_Rpt\_20180323084231.pdf

COG\_Fascinator\_604H\_Direct\_Plan\_20180323084239.pdf

Other proposed operations facets description:

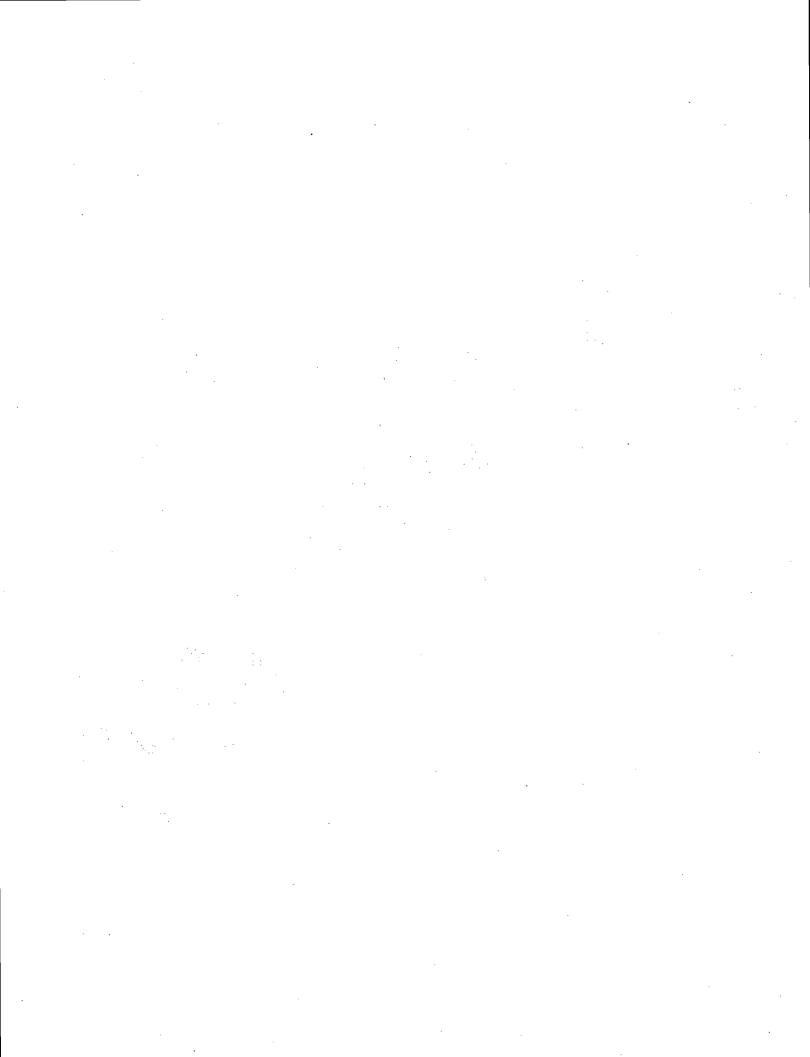
Other proposed operations facets attachment:

COG Fascinator 604H Drill Prog 20180716083103.pdf

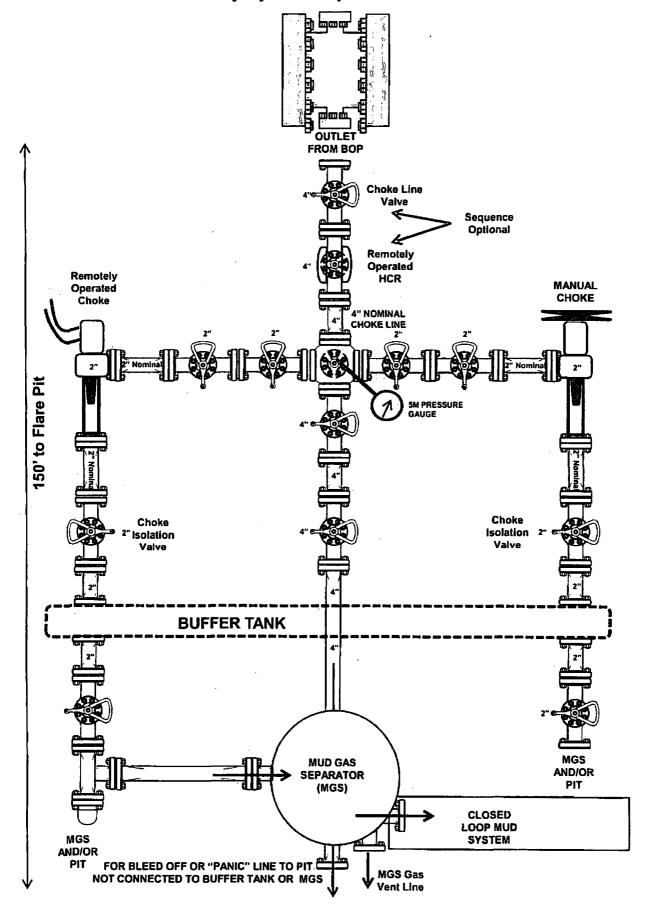
COG\_Fascinator\_604H\_GCP\_20180716083110.pdf

Other Variance attachment:

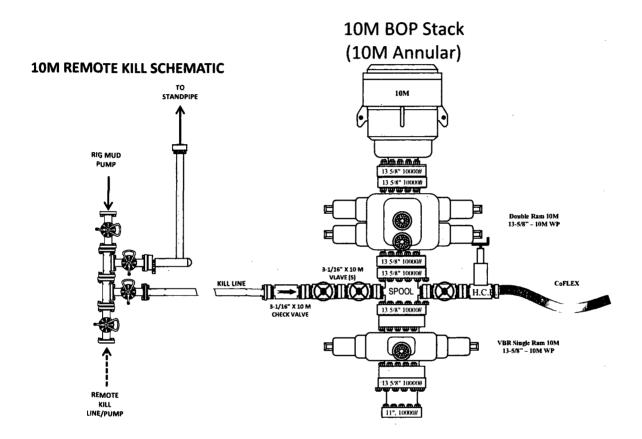
COG\_5M\_Annular\_Variance\_WCP\_20180322084749.pdf

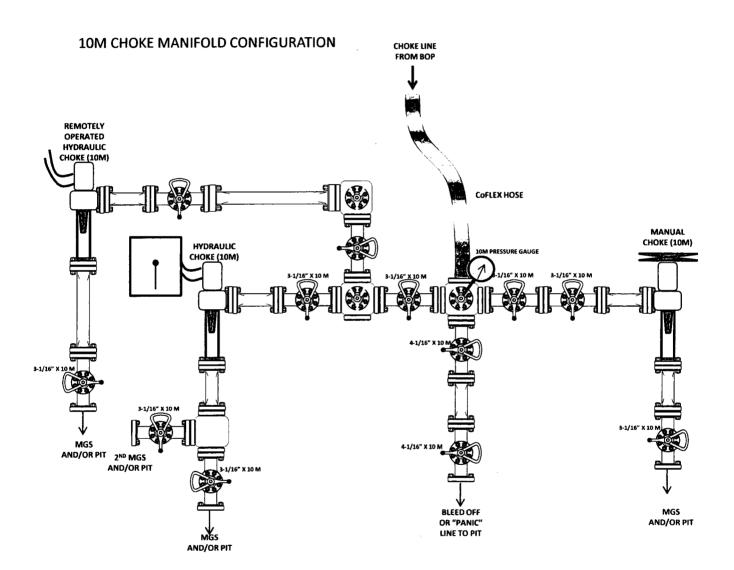


# 5M Choke Manifold Equipment (WITH MGS + CLOSED LOOP)

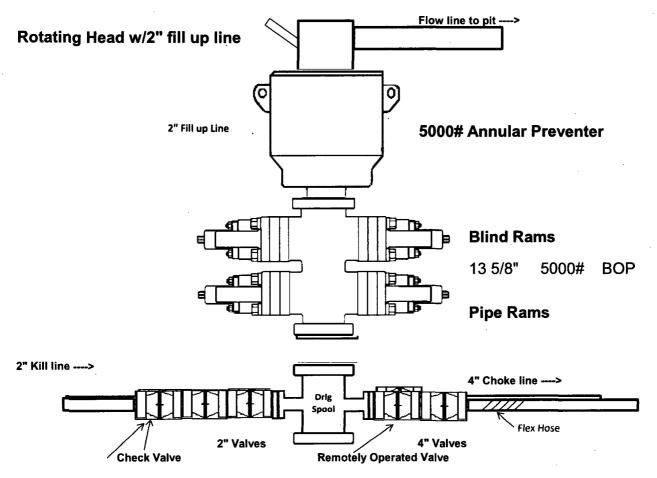


## 10M BOP Stack





# 5,000 psi BOP Schematic





### ContiTech Fluid Technology

# **COPY**

ContiTech Oil & Marine Corp. # 1153	5 Brittmoore Park Dr., Houston, TX 77041-8916 USA	Delivery Note	·			
		Document No.	83854547			
NDTUSA- ODESSA		Document Date	06/28/2017			
2500 W OREGON		Customer Number 11721				
ODESSA TX 79764		Customer VAT No.				
		Supplier Number				
		Nº EORI:	FR410279533000			
		Purchase Order No.	13999606			
Transport-Details - Shi	nnina:	Purchase Order Date	06/26/2017			
manaport-betana - om	phuia	Sales Order Number	974000			
		Sales Order Date	06/26/2017			
		Unloading Point				
Conditions		Page 1 of 2				
Shipping Conditions	0 days					
Inco Terms	EXW Houston	Weights (Gross / Ne	·			
	Ex Works	Total Weight	1,700.000 LB			
		Net Weight	1,700.000 LB			

Buyer: Andras Kruppa

E-mail: Andras.Kruppa@nabors.com

PR#14438486

Rig: X31

item	Material/Description	Quantity	Weight
10	OORECERTIFY	1 PC	1,700.000 LB
	Recertification of HP Hoses Serial#62205		
	3" ID 10K Choke and Kill Hose x 35ft OAL		
	End 1: 4 - 1/16" 10Kpsi API Spec 17D SV Swivel Flange		
	End 2: 4 - 1/16" 10Kpsi API Spec 17D SV Swivel Flange		
	c/w BX155 ring groove SS Inlay each end		
	Standard: API Spec 16C - Monogrammed		
	Working Pressure: 10,000psi		
	Test Pressure: 15,000psi		
	Asset # 66-0945		
	Inspection & Certification includes:		
	External inspection of the hose & couplings		
	Internal boroscopic inspection of hose liner		
	Hydrostatic pressure test of hose assembly		

# **Ontinental ⅓**

### ContiTech Fluid Technology

Conditions

**Shipping Conditions** 

Inco Terms

0 days

**EXW** Houston

Ex Works

**Delivery Note** 

Document No.

83854547

Document Date

06/28/2017

Page 2 of 2

Repair of any external damage to hose body and end connections (limited to minor repairs)

Clean & protect end connections

Inspection Report

Disposal of hose assembly if hose fails inspection and recertification process

Please Flush Hoses before sending them to our Facility.

Buyer: Andras Kruppa

E-mail: Andras.Kruppa@nabors.com

PR#14438486

Rig: X31

Inner packages

Quantity Packaging

420"X15"X15" -Loose

Material

Charge

Package number

123198224

OORECERTIFY

•

# **Hydrostatic Test Certificate**



ContiTech

rtificate Number 4000 Customer Purchase Order No:	COM Order Reference 974000 13999606	Nabors Lux Finance 2 S.a.r.L. 8-10 Avenue de la Gare L-1610 LUXEMBOURG
Project:		
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Roger Suarez Signed: Date: 6/27/9	

We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.



20

RECERTIFICATION - 3" ID 10K Choke & Kill Hose x 35 ft OAL

62205

10,000 psi 15,000 psi

60

Assest # 66-0945

# **Certificate of Conformity**



ContiTech

rtificate Number 4000	<b>COM On</b> 974000	der Reference	Page one or Name (2/4/6/1988) Nabors Lux Finance 2 S.a.r.L.					
Customer Purchase Order No:	1399960	6	8-10 Avenue de la Gare L-1610 LUXEMBOURG					
Project:								
		7/ลสุดสอสตสหรัชย์ที่ที่เกลาสรัสสาร	Market Complete All And State Complete					
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041	Signed:	Roger Suarez						
USA	Date:	6/27/1437						

We certify that the items detailed below meet the requirements of the customer's Purchase Order referenced above, and are in conformance with the specifications given below.

·		
(a) (a) (b)		Specificalists

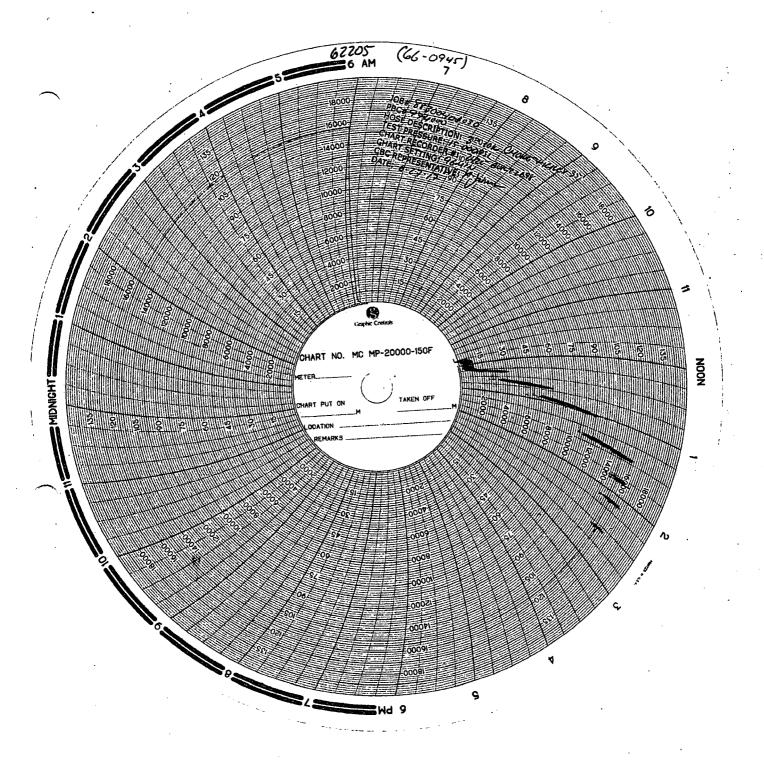
20

RECERTIFICATION - 3" ID 10K Choke & Kill Hose x 35 ft OAL

62205

ContiTech Standard

Assest # 66-0945



# **Hose Inspection Report**

### ContiTech Oil & Marine

Customer	Customer Reference #	COM Reference #	COM Inspector	Date of Inspection
Nabors	13999606	974000	A. Jaimes	06/27/2017

Hose Manufacturer	Contitech Rubber Industrial	·

Hose Serial #	62205	(66-0945)	Date of Manufacture	12/2011	
Hose I.D.	3"		Working Pressure	10000PSI	
Hose Type	Choke a	and Kill	Test Pressure	15000PSI	
Manufacturing St	tandard	API 16C			

#### **Connections**

End A: 4.1/16" 10Kpsi API Spec 17D Swivel Flange	End B: 4.1/16" 10Kpsi API Spec 17D Swivel Flange		
• Dents	No damage		
Material: Carbon Steel	Material: Carbon Steel		
Seal Face: BX155	Seal Face: BX155		
Length Before Hydro Test: 35'	Length After Hydro test: 35'		

Conclusion: Hose #62205 passed the external inspection with no notable damage to the hose armor. The flange face on end A did have minor dents but did not affect the test outcome. It is advised that additional care be taken in order to avoid further damage to the flange face. Internal borescope of the hose showed no damage to the liner. Hose #62205 passed the hydrostatic pressure test by holding a pressure of 15,000PSI for 60 minutes. Hose #62205 is suitable for continued service.

Recommendations: In general the hose should be inspected on a regular on-going basis. The frequency and degree of the inspection should as a minimum follow these guidelines:

Visual inspection: Every 3 to 6 months (or during installation/removal)

Annual: In-situation resource test (in addition to the 3 to 6 monthly inspections) Initial 5 years service: Major inspection
2nd Major inspection. Following subsequent 3 year life cycle
(Detailed description of test regime available upon request, QCP 206-1)

\*\*NOTE: There are a number of critical elements in the hose that cannot be thoroughly checked through standard inspection techniques. Away from clissecting the hose body, the best way to evaluate the condition of the hose is through review of the operating conditions recorded during the hose service life, in particular maximums and peak conditions.

**External Damage** Pre - Hydro test

End A has minor dents at the edge of the seal face but did not compromise the hydrostatic pressure test. Additional care should be take in order to avoid further damage



**Issued By:** Alejandro Jaimes Date: 6/27/2017

Checked By: Gerson Mejia-Lazo Date: 6/27/2017

Page 1 of 1 **QF97** 

NDTUSA- ODESSA 2500 W OREGON ODESSA TX 79764 (2) Unloading point - storage location - usage ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston TX 77041-6916 (3) Delivery note no. 83854547 **OORECERTIFY** 1,700 LB 1,700 LB Recertification of HP Hoses Se 974000 (13) Packing date 06/28/17 123198224 13999606



CONTITECH RUBBER Industrial Kft.

No: QC-DB- 298 / 2017

Page:

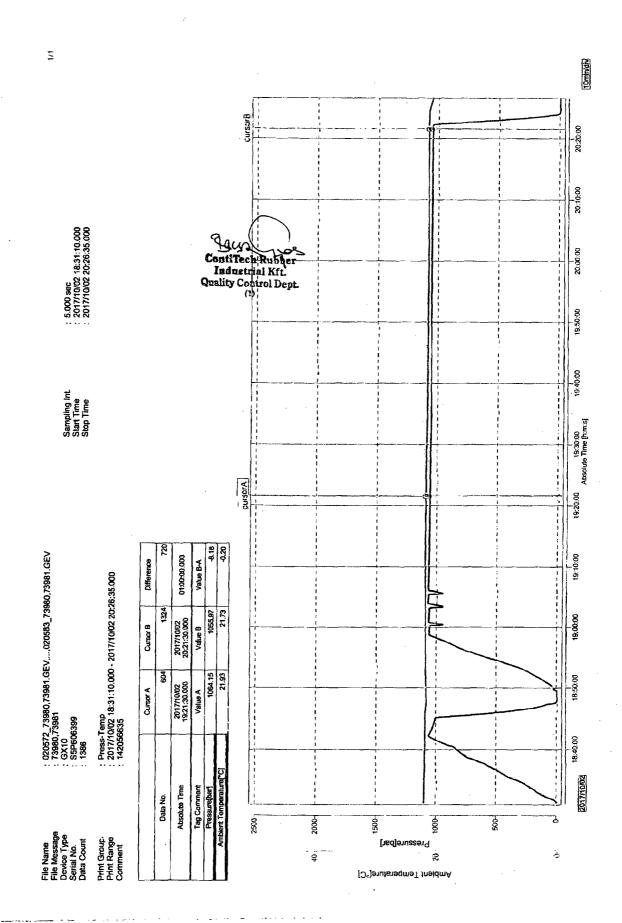
8 / 119

## ContiTech

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE  CERT. N°: 682						<del></del>	
INSPECTION	<del></del>			,-		· · · · · · · · · · · · · · · · · · ·	
PURCHASER:	Oil & Marine Co	orp.	P.O. N°:		45009849	922	
CONTITECH RUBBER order N	987778	HOSE TYPE:	3" ID		Choke an	d Kill Hose	•
HOSE SERIAL N°:	73981	NOMINAL / ACT	UAL LENGT	H:	13,72 n	n / 13,80 m	)
W.P. 69,0 MPa 10	0000 psi	T.P. 103,5	MPa 15	000 psi	Duration:	60	min.
Pressure test with water at ambient temperature	Pressure test with water at ambient temperature  See attachment ( 1 page )						
COUPLINGS Ty	pe	Serial N	10	Qu	ality	Hea	it N°
3" coupling with	h	8077	8083	AISI	4130	A09	39Y
4 1/16" 10K API Swivel F	lange end			AISI	4130	037184	85913
Hub				AISI	4130	A09	39Y
Not Designed For We TAG NO.: 66-1486  All metal parts are flawless							
WE CERTIFY THAT THE ABOVI INSPECTED AND PRESSURE T					H THE TERM	S OF THE OR	DER
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						nd tested in	
Date: Inspector  03. October 2017.			Quality Cor	Co:	atiTech Rub adastrial Ki lity Control I	t	ves .

ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE No: 681, 682

CONTITECH RUBBER No: QC-DB- 298 / 2017 Industrial Kft. Page: 9 / 119





**CONTITECH RUBBER** Industrial Kft.

No: QC-DB- 298 / 2017

Page: 21 / 119

# **ContiTech**

## **Hose Data Sheet**

CRI Order No.	987778
Customer	ContiTech Oil & Marine Corp
Customer Order No	4500984922 CO987640
Item No.	10
Hose Type	Flexible Hose
Standard	API SPEC 16C 2ND EDITION FSL2
Inside dia in inches	3
Length	45 ft
Type of coupling one end	FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155ST/ST INLAID RING GROOVE SOUR
Type of coupling other end	FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR
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	CONTINENTAL CONTITECH
Cover	NOT FIRE RESISTANT
Outside protection	St.steel outer wrap
Internal stripwound tube	No
Lining	OIL + GAS RESISTANT SOUR
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
Min. Bend Radius operating [m]	0,90
Min. Bend Radius storage [m]	0,90
Electrical continuity	The Hose is electrically continuous
Type of packing	WOODEN CRATE ISPM-15

ContiTech Rubber Industrial Kft.

QC2

Printed: TIRETECH2\BacsaL - 2017.09.07 20:33:22

# **©**ntinental<u>⅓</u>

### ContiTech Fluid Technology

# **COPY**

ContiTech Oil & Marine Corp. # 1153	5 Brittmoore Park Dr., Houston, TX 77041-6916 USA	Delivery Note		
		Document No.	83854547	
NDTUSA- ODESSA		Document Date	06/28/2017	
2500 W OREGON ODESSA TX 79764		Customer VAT No. Supplier Number	11721 FR4102795330002	
		Purchase Order No.	13999606	
Transport-Details - Shipping		Purchase Order Date		
		Sales Order Number Sales Order Date		
Conditions Shipping Conditions O days		Page 1 of 2		
Inco Terms	EXW Houston	Weights (Gross / Net)		
	Ex Works	Total Weight	, 1,700.000 LB 1,700.000 LB	

Buyer: Andras Kruppa

E-mail: Andras.Kruppa@nabors.com

PR#14438486

Rig: X31

	Item	Material/Description			
	10	OORECERTIFY	2ua	ntity	Weight
		o o ne o e n	1	PC	1,700.000
ı		Reportification of UR II			LB

Recertification of HP Hoses Serial#62205 3" ID 10K Choke and Kill Hose x 35ft OAL

End 1: 4 - 1/16" 10Kpsi API Spec 17D SV Swivel Flange End 2: 4 - 1/16" 10Kpsi API Spec 17D SV Swivel Flange

c/w BX155 ring groove SS Inlay each end Standard: API Spec 16C - Monogrammed

Working Pressure: 10,000psi Test Pressure: 15,000psi

Asset # 66-0945

Inspection & Certification includes: External inspection of the hose & couplings Internal boroscopic inspection of hose liner Hydrostatic pressure test of hose assembly

# ContiTech Fluid Technology



Conditions

Shipping Conditions
Inco Terms

0 days

EXW Houston

Ex Works

**Delivery Note** 

Document No.

83854547

Document Date

06/28/2017

Page 2 of 2

Repair of any external damage to hose body and end connections (limited to minor repairs)

Clean & protect end connections

Inspection Report

Disposal of hose assembly if hose fails inspection and recertification process

Please Flush Hoses before sending them to our Facility.

Buyer: Andras Kruppa

E-mail: Andras.Kruppa@nabors.com

PR#14438486

Rig: X31

Inner packages

Quantity Packaging

420"X15"X15" -Loose

Material

Charge

Package number

123198224

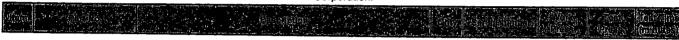
OORECERTIFY



# **Hydrostatic Test Certificate**

rtificate Number	COM Order Reference 974000	Nabors Lux Finance 2 S.a.r.L.
Customer Purchase Order No:	13999606	8-10 Avenue de la Gare L-1610 LUXEMBOURG
Project:		
La	The Carlo Mark and the Cold Market	lah dan kecamatan dan kecamatan dan da
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Roger Suarez  Date: 6/2/1/3	

We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.



20

RECERTIFICATION - 3" ID 10K Choke & Kill Hose x 35 ft OAL

62205

10,000 psi 15,000 psi

80

ContiTech

Assest # 66-0945

# **Certificate of Conformity**



ContiTech

rtificate Number 4000	COM Or 974000	der Reference	Nabors Lux Finance 2 S.a.r.L.	
Customer Purchase Order No: 13999606		6	8-10 Avenue de la Gare L-1610 LUXEMBOURG	
Project:			]	
The demandant of the		Argumenta Chay San Landen Valle Com	il · · · · · · · · · · · · · · · · · · ·	
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041	Signed:	Roger Suarez		
USA	Date:	6/27/47		

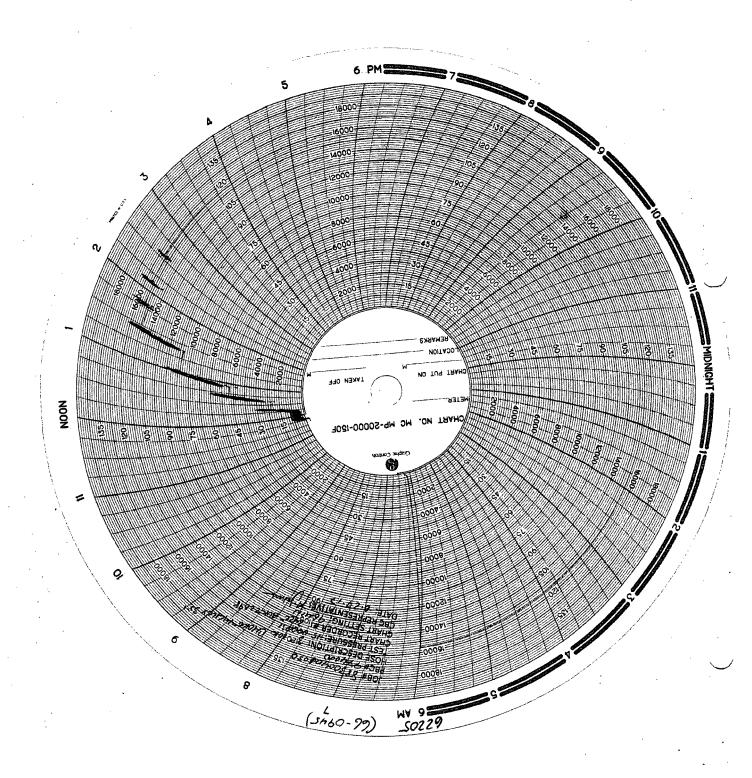
We certify that the items detailed below meet the requirements of the customer's Purchase Order referenced above, and are in conformance with the specifications given below.



20

RECERTIFICATION - 3" ID 10K Choke & Kill Hose x 35 ft OAL

62205 Assest # 66-0945 ContiTech Standard



# **Hose Inspection Report**

Customer	Customer Reference #	COM Reference #	COM inspector	Date of Inspection
Nabors	13999606	974000	A. Jaimes	06/27/2017

	<del>,</del>
1	lan
Laca Manufacturar	Contitoch Pubbar Industrial
Hose Manufacturer	Contitech Rubber Industrial
,	
	<del>^</del>

Hose Serial #	62205 (66-0945)	Date of Manufacture	12/2011		
Hose I.D.	3"	Working Pressure	10000PSI		
Hose Type	Choke and Kill	Test Pressure	15000PSi		
Manufacturing Standard API 16C					

#### **Connections**

End A: 4.1/16" 10Kpsi API Spec 17D Swivel Flange	End B: 4.1/16" 10Kpsi API Spec 17D Swivel Flange				
• Dents	No damage				
Material: Carbon Steel	Material: Carbon Steel				
Seal Face: BX155	Seal Face: 8X155				
Length Before Hydro Test: 35'	Length After Hydro test: 35'				
er n s	12 Taran Baran Bar				

Conclusion: Hose #62205 passed the external inspection with no notable damage to the hose armor. The flange face on end A did have minor dents but did not affect the test outcome. It is advised that additional care be taken in order to avoid further damage to the flange face. Internal borescope of the hose showed no damage to the liner. Hose #62205 passed the hydrostatic pressure test by holding a pressure of 15,000PSI for 60 minutes. Hose #62205 is suitable for continued service.

Recommendations: In general the hose should be inspected on a regular on-going basis. The frequency and degree of the inspection should as a minimum follow these guidelines:

Visual inspection: Every 3 to 6 months (or during installation/removal)
Annual: In-situipressure test (in addition to the 3 to 6 monthly inspections)
Initial 5 years socice: Major inspection
2nd Major inspection, Following subsequent 3 year life cycle
(Detailed description objects redime available upon request, QCP 206-1)

\*\*NOTE: There are a number discritical elements in the hose that cannot be thoroughly checked through standard inspection techniques. Away from dissecting the hose body, the best way to evaluate the condition of the hose is through review of the operating conditions recorded during the hose service life, in particular maximums and peak conditions.

External Damage Pre – Hydro test

End A has minor dents at the edge of the seal face but did not compromise the hydrostatic pressure test. Additional care should be take in order to avoid further damage



Issued By: Alejandro Jaimes
Date: 6/27/2017

Checked By: Gerson Mejia-Lazo Date: 6/27/2017

Page 1 of 1 QF97

NDTUSA- ODESSA 2500 W OREGON ODESSA TX 79764	(2) Unloading point - storage location - usage						
(3) Defivery note no. 83854547	ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston TX 77041-6916						
OORECERTIFY							
(9) Quantity	1,700 LB (6) Oross weight 1,700 LB (7) Number of packages 1						
(12) Contilect Sales order no.	Recertification of HP Hoses Se						
974000	(13) Packing date (14) Engineering change status						
123198224	(16) Customer PO no. 13999606						

66-0945

62205



Industrial Kft.

CONTITECH RUBBER No: QC-DB- 298 / 2017

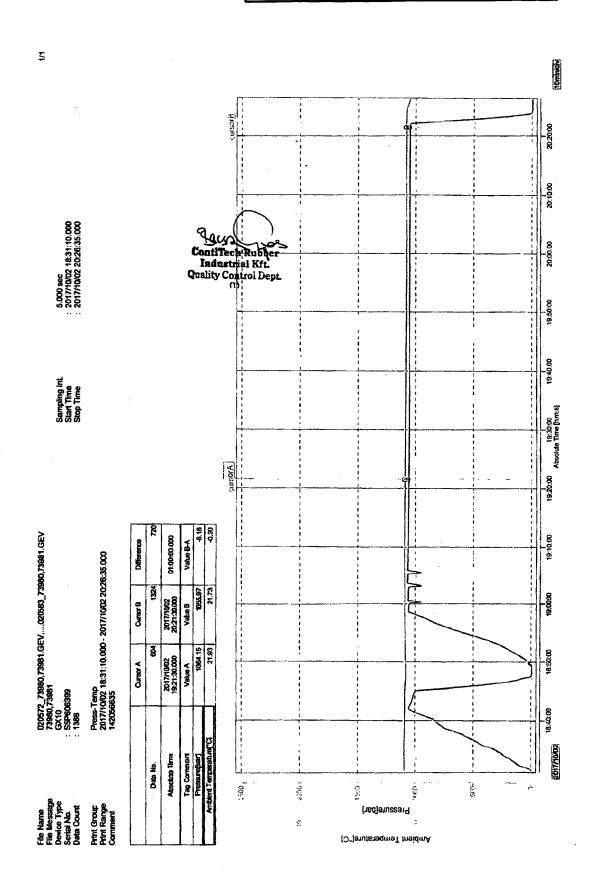
Page: 8 / 119

ContiTech

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE					CERT.	N°:	682		
PURCHASER:	Oil & Marine Corp.		P.O. N°:		4500984922				
CONTITECH RUBBER order N	HOSE TYPE:	3"	D	Choke and Kill Hose					
HOSE SERIAL N°:	NOMINAL / ACTUAL LENGTH:			13,72 m / 13,80 m					
W.P. 69,0 MPa 10	0000 psi	T.P. 103,5	MPa	1500	)O psi	Duration:	60	min.	
Pressure test with water at ambient temperature		See attachm	nent (	1 page	)				
COUPLINGS Type		Serial N°		Quality		Heat N°			
3" coupling with		8077	808	3	AISI 4130		A0939Y		
4 1/16" 10K API Swivel Flange end					AISI	4130	037184	85913	
Hub					AISI	AISI 4130		A0939Y	
Not Designed For Well Testing  API Spec 16 C 2 <sup>nd</sup> Edition—FSL2  TAG NO.: 66-1486  Temperature rate: "B"									
WE CERTIFY THAT THE ABOVE INSPECTED AND PRESSURE T	E HOSE HAS BE	EN MANUFACTU DVE WITH SATISF	RED IN A	CCORD	ANCE WIT	TH THE TERM	IS OF THE OR	DER	
STATEMENT OF CONFORMITY conditions and specifications of accordance with the referenced s	f: We hereby the above Purc tandards, codes	certify that the abo	ove Items that thes and mee	/equipme e items/e t the relev	nt supplie quipment /ant accep	were fahricat	ed increased a	nd toeted in	
Date: 03. October 2017.	Inspector		Quality Control  ContiTech Rubber  Industrial Kft. Quality Control Dept  Account Left  Accounts  ContiTech Rubber  Industrial Kft.  Quality Control Dept  Accounts  Ac						

ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE No: 681, 682

CONTITECH RUBBER No: QC-DB- 298 / 2017 Industrial Kft. Page: 9 / 119





CONTITECH RUBBER No: QC-DB- 298 / 2017 Industrial Kft. Page: 21 / 119

Page: 21 / 119

# **ContiTech**

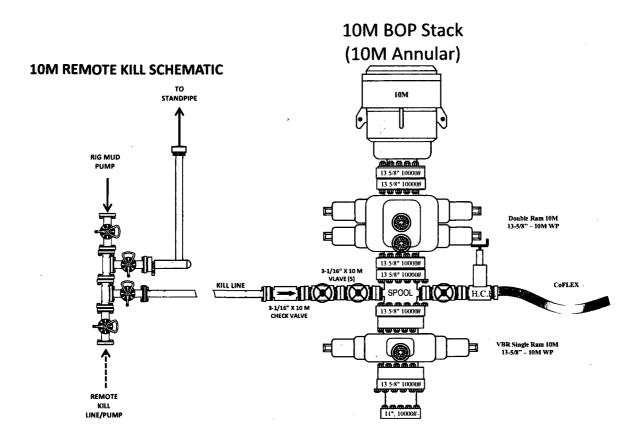
#### **Hose Data Sheet**

Customer Order No 4500984922 CO987640 tem No. 10  Item No	CRI Order No.	987778
Term No.   10	Customer	ContiTech Oil & Marine Corp
Flexible Hose  Standard  API SPEC 16C 2ND EDITION FSL2  nside dia in Inches 3  Length 45 ft  Type of coupling one end ELANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155ST/ST INLAID RING GROOVE SOUR  Type of coupling other end ELANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155ST/ST INLAID RING GROOVE SOUR  Type of coupling other end ELANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155ST/ST INLAID RING GROOVE SOUR  Type of coupling other end ELANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155ST/ST INLAID RING GROOVE SOUR  Type of coupling other end ELANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155ST/ST INLAID RING GROOVE SOUR  Type of coupling other end ELANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155ST/ST INLAID RING GROOVE SOUR  Type of coupling other end ELANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155ST/ST INLAID RING GROOVE SOUR  Type of coupling one end ELANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155ST/ST INLAID RING GROOVE SOUR  Type of coupling one end ELANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155ST/ST INLAID RING GROOVE SOUR  Type of coupling one end ELANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155ST/ST INLAID RING GROOVE SOUR  Type of coupling one end ELANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155ST/ST INLAID RING GROOVE SOUR  Type of coupling one end ELANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155ST/ST INLAID RING GROOVE SOUR  Type of coupling one end ELANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX15ST/ST INLAID RING GROOVE SOUR  Type of coupling one end ELANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX15ST/ST INLAID RING GROOVE SOUR  ELANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX15ST/ST INLAID RING GROOVE SOUR  ELANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX15ST/ST INLAID RING GROOVE SOUR  ELANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W  ELANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W  ELANGE 4.	Customer Order No	4500984922 CO987640
Standard API SPEC 16C 2ND EDITION FSL2  nside dia in Inches 3  Length 45 ft  Type of coupling one end FLANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155ST/ST INLAID RING GROOVE SOUR  Type of coupling other end FLANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155ST/ST INLAID RING GROOVE SOUR  Type of coupling other end FLANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  TEAN TYPE SERVICE NACE MR0175  Working Pressure 10 000 psi  Test Pressure 15 000 psi  Test Pressure 15 000 psi  Safety Factor 2,25  Marking CONTINENTAL CONTITECH  Cover NOT FIRE RESISTANT  Outside protection St.steel outer wrap  Internal stripwound tube No  Internal stripwound tube No  Lining OIL + GAS RESISTANT SOUR  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] 2-20  Min. Bend Radius operating [m] 0,90  Min. Bend Radius storage [m] 0,90  Min. Bend Radius storage [m] 0,90  Electrical continuity The Hose is electrically continuous	Item No.	10
Inside dia in Inches  Jength  45 ft  FLANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE CW BX155ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE CW BX155ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16* 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16* 10KPS SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16* 10KPS SWIVEL FLANGE C/W BX155 SW	Hose Type	Flexible Hose
Length 45 ft Type of coupling one end FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155ST/ST INLAID RING GROOVE SOUR Type of coupling other end FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR TYPE OF COUPLING OF THE RESIST OF THE RESISTANT SOUR Design Pressure 10 000 psi Design Pressure 15 000 psi Safety Factor 2,25 Marking CONTINENTAL CONTITECH Cover NOT FIRE RESISTANT Outside protection St. steel outer wrap Internal stripwound tube No OIL + GAS RESISTANT SOUR Safety clamp Yes Element C Yes Safety chain No Safety wire rope Yes Max.design temperature [°C] 100 Min.design temperature [°C] -20 Min. Bend Radius operating [m] 0,90 Min. Bend Radius storage [m] 0,90 Electrical continuity The Hose is electrically continuous	Standard	API SPEC 16C 2ND EDITION FSL2
FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155ST/ST INLAID RING GROOVE SOUR  Type of coupling other end FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  H2S service NACE MR0175 Yes  Working Pressure 10 000 psi  Test Pressure 15 000 psi  Sefety Factor 2,25  Marking CONTINENTAL CONTITECH  Cover NOT FIRE RESISTANT  Outside protection St. steel outer wrap  Internal stripwound tube No  Lining OIL + GAS RESISTANT SOUR  Safety damp Yes  Lifting collar Yes  Element C Safety chain No  Safety wire rope Max.design temperature [°C] 100  Min.design temperature [°C]  Min. Bend Radius operating [m] Min. Bend Radius storage [m] Electrical continuity The Hose is electrically continuous	Inside dia in inches	3
Type of coupling one end  BX155ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  H2S service NACE MR0175  Yes  Working Pressure  10 000 psi  Design Pressure  15 000 psi  Safety Factor  2,25  Marking  CONTINENTAL CONTITECH  Cover  NOT FIRE RESISTANT  Outside protection  St. steel outer wrap  Internal stripwound tube  No  Lining  Oil. + GAS RESISTANT SOUR  Safety damp  Yes  Element C  Safety chain  No  Safety wire rope  Max.design temperature [°C]  Min. Bend Radius operating [m]  Dies of coupling GROOVE SOUR  FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 1.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 1.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 1.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 1.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR  FLANGE 1.1/16" 10KPSI API SPEC 1.1/16  FLANGE	Length	45 ft
Type of coupling other end  BX155 ST/ST INLAID RING GROOVE SOUR  H2S service NACE MR0175  Working Pressure  10 000 psi  Design Pressure  15 000 psi  Safety Factor  2,25  Marking  CONTINENTAL CONTITECH  Cover  NOT FIRE RESISTANT  Outside protection  St. steel outer wrap  Internal stripwound tube  No  Lining  OIL + GAS RESISTANT SOUR  Safety clamp  Yes  Element C  Safety chain  No  Safety wire rope  Max. design temperature [°C]  Min. Bend Radius storage [m]  Ne  10 000 psi  10 000 ps	Type of coupling one end	
Working Pressure 10 000 psi  Design Pressure 15 000 psi  Safety Factor 2,25  Marking CONTINENTAL CONTITECH  Cover NOT FIRE RESISTANT  Outside protection St. steel outer wrap  Internal stripwound tube No  Lining OIL + GAS RESISTANT SOUR  Safety clamp Yes  Lifting collar Yes  Element C Yes  Safety wire rope Yes  Max. design temperature [°C] 100  Min. design temperature [°C] -20  Min. Bend Radius operating [m] 0,90  Min. Bend Radius storage [m] 0,90  Min. Bend Radius storage [m] 0,90  Electrical continuity The Hose is electrically continuous	Type of coupling other end	
Design Pressure  10 000 psi Test Pressure  15 000 psi Safety Factor  2,25  Marking  CONTINENTAL CONTITECH  Cover  NOT FIRE RESISTANT  Outside protection  St. steel outer wrap  Internal stripwound tube  No  Lining  OIL + GAS RESISTANT SOUR  Safety clamp  Yes  Lifting collar  Yes  Element C  Safety chain  No  Safety wire rope  Max. design temperature [°C]  Min. design temperature [°C]  Min. Bend Radius operating [m]  0,90  Min. Bend Radius storage [m]  The Hose is electrically continuous	H2S service NACE MR0175	Yes
Test Pressure 15 000 psi Safety Factor 2,25  Marking CONTINENTAL CONTITECH Cover NOT FIRE RESISTANT  Outside protection St. steel outer wrap Internal stripwound tube No Lining OIL + GAS RESISTANT SOUR  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  Min. Bend Radius operating [m] 0,90  Min. Bend Radius storage [m] 0,90  Electrical continuity The Hose is electrically continuous	Working Pressure	10 000 psi
Safety Factor  Safety Factor  Arking  CONTINENTAL CONTITECH  Cover  NOT FIRE RESISTANT  Outside protection  St. steel outer wrap  Internal stripwound tube  No  Lining  OIL + GAS RESISTANT SOUR  Safety clamp  Yes  Lifting collar  Yes  Element C  Yes  Safety chain  No  Safety wire rope  Max.design temperature [°C]  Min.design temperature [°C]  Min. Bend Radius operating [m]  0,90  Min. Bend Radius storage [m]  The Hose is electrically continuous	Design Pressure	10 000 psi
Marking CONTINENTAL CONTITECH Cover NOT FIRE RESISTANT  Outside protection St. steel outer wrap Internal stripwound tube No Lining OIL + GAS RESISTANT SOUR  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 Min. Bend Radius operating [m] 0,90 Min. Bend Radius storage [m] 0,90 Electrical continuity The Hose is electrically continuous	Test Pressure	15 000 psi
Cover NOT FIRE RESISTANT  Outside protection St. steel outer wrap  Internal stripwound tube No  Lining OIL + GAS RESISTANT SOUR  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  Min. Bend Radius operating [m] 0,90  Min. Bend Radius storage [m] 0,90  Electrical continuity The Hose is electrically continuous	Safety Factor	2,25
Outside protection  Internal stripwound tube  No  OIL + GAS RESISTANT SOUR  Safety clamp  Lifting collar  Element C  Safety chain  No  Safety wire rope  Max.design temperature [°C]  Min.design temperature [°C]  Min. Bend Radius operating [m]  O,90  Electrical continuity  St. steel outer wrap  No  St. steel outer wrap  No  St. steel outer wrap  No  OIL + GAS RESISTANT SOUR  Yes  100  Yes  100  Yes  100  100  100  100  100  100  100  1	Marking	CONTINENTAL CONTITECH
Internal stripwound tube  Lining  OIL + GAS RESISTANT SOUR  Safety clamp  Yes  Lifting collar  Yes  Element C  Safety chain  No  Safety wire rope  Max.design temperature [°C]  Min.design temperature [°C]  Min. Bend Radius operating [m]  Min. Bend Radius storage [m]  Electrical continuity  No  The Hose is electrically continuous	Cover	NOT FIRE RESISTANT
Lining OIL + GAS RESISTANT SOUR  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  Min. Bend Radius operating [m] 0,90  Min. Bend Radius storage [m] 0,90  Electrical continuity The Hose is electrically continuous	Outside protection	St.steel outer wrap
Safety clamp  Lifting collar  Yes  Element C  Yes  Safety chain  No  Safety wire rope  Yes  Max.design temperature [°C]  Min.design temperature [°C]  Min. Bend Radius operating [m]  Min. Bend Radius storage [m]  Electrical continuity  Yes  Yes  100  900  100  100  100  100  100  10	Internal stripwound tube	No
Lifting collar  Yes  Element C  Yes  Safety chain  No  Safety wire rope  Max.design temperature [°C]  Min.design temperature [°C]  Min. Bend Radius operating [m]  Min. Bend Radius storage [m]  D,90  Electrical continuity  Yes  Yes  100  No  90  100  100  100  100  100  100  100	Lining	OIL + GAS RESISTANT SOUR
Element C  Safety chain  No  Safety wire rope  Yes  Max.design temperature [°C]  Min.design temperature [°C]  Min. Bend Radius operating [m]  Min. Bend Radius storage [m]  D,90  Electrical continuity  The Hose is electrically continuous	Safety clamp	Yes .
Safety chain  No  Safety wire rope  Max.design temperature [°C]  Min.design temperature [°C]  Min. Bend Radius operating [m]  Min. Bend Radius storage [m]  O,90  Electrical continuity  No  Yes  100  100  100  100  100  100  100  1	Lifting collar	Yes
Safety wire rope  Max.design temperature [°C]  Min.design temperature [°C]  Min. Bend Radius operating [m]  Min. Bend Radius storage [m]  O,90  Electrical continuity  The Hose is electrically continuous	Element C	Yes
Max.design temperature [°C] 100  Min.design temperature [°C] -20  Min. Bend Radius operating [m] 0,90  Min. Bend Radius storage [m] 0,90  Electrical continuity The Hose is electrically continuous	Safety chain	No
Min. design temperature [°C] -20  Min. Bend Radius operating [m] 0,90  Min. Bend Radius storage [m] 0,90  Electrical continuity The Hose is electrically continuous	Safety wire rope	Yes
Min. Bend Radius operating [m] 0,90  Min. Bend Radius storage [m] 0,90  Electrical continuity The Hose is electrically continuous	Max.design temperature [°C]	100
Min. Bend Radius storage [m] 0,90  Electrical continuity The Hose is electrically continuous	Min.design temperature [°C]	-20
Electrical continuity  The Hose is electrically continuous	Min. Bend Radius operating [m]	0,90
	Min. Bend Radius storage [m]	0,90
Type of packing WOODEN CRATE ISPM-15	Electrical continuity	The Hose is electrically continuous
<u></u>	Type of packing	WOODEN CRATE ISPM-15

ContiTech Rubber Industrial Kft. QC 2

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#### **10M BOP Stack**





#### ContiTech Fluid Technology

#### COPY

ContiTech Oil & Marine Corp. # 1183	6 Brittmoore Park Dr., Houston, TX 77041-6916 USA	Delivery Note	· · · · · · · · · · · · · · · · · · ·			
		Document No.	83854547			
NDTUSA- ODESSA		Document Date	06/28/2017			
2500 W OREGON		Customer Number 11721				
ODESSA TX 79764		Customer VAT No.				
		Supplier Number				
		Nº EORI:	FR4102795330002			
		Purchase Order No.	13999606			
Transport-Details - Shi	nning	Purchase Order Date	06/26/2017			
Transport-Details - On	pping	Sales Order Number 974000				
		Sales Order Date	06/26/2017			
		Unloading Point				
Conditions		Page 1 of 2				
Shipping Conditions	O days					
Inco Terms	EXW Houston Ex Works	Weights (Gross / Ne	t)			
		Total Weight				
		Net Weight	1,700.000 LB			

Buyer: Andras Kruppa

E-mail: Andras.Kruppa@nabors.com

PR#14438486

Rig: X31

Item	Material/Description	Quantity	Weight
10	OORECERTIFY	1 PC	1,700.000 LB
	Recertification of HP Hoses Serial#62205		
	3" ID 10K Choke and Kill Hose x 35ft OAL		
	End 1: 4 - 1/16" 10Kpsi API Spec 17D SV Swivel Flange		
	End 2: 4 - 1/16" 10Kpsi API Spec 17D SV Swivel Flange		
	c/w BX155 ring groove SS Inlay each end		
	Standard: API Spec 16C - Monogrammed		
	Working Pressure: 10,000psi		
	Test Pressure: 15,000psi		
	Asset # 66-0945		
	Inspection & Certification includes:		
	External inspection of the hose & couplings		
	Internal boroscopic inspection of hose liner		•
	Hydrostatic pressure test of hose assembly		

# **O**ntinental **⅓**

#### ContiTech Fluid Technology

Conditions

Shipping Conditions

Inco Terms

0 days

**EXW Houston** 

Ex Works

**Delivery Note** 

Document No.

83854547

Document Date

06/28/2017

Page 2 of 2

Repair of any external damage to hose body and end connections (limited to minor repairs)

Clean & protect end connections

Inspection Report

Disposal of hose assembly if hose fails inspection and recertification process

Please Flush Hoses before sending them to our Facility.

Buyer: Andras Kruppa

E-mail: Andras.Kruppa@nabors.com

PR#14438486

Rig: X31

Inner packages

Quantity Packaging

1 420"X15"X15" -Loose

Material

Charge

Package number

123198224

**OORECERTIFY** 

•





rtificate Number 4000	<b>COM Or</b> 974000	der Reference	Nabors Lux Finance 2 S.a.r.L.
Customer Purchase Order No:	13999600	3	8-10 Avenue de la Gare L-1610 LUXEMBOURG
Project:			
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA		Roger Suarez	Les de Meagnad Ibv@itadilbepreation (150 k)

We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.



20

RECERTIFICATION - 3" ID 10K Choke & Kill Hose x 35 ft OAL

62205

10,000 psi 15,000 psi

# **Certificate of Conformity**



ContiTech

rtificate Number 4000	COM Or 974000	der Reference	Customent anne & Adairess Nabors Lux Finance 2 S.a.r.L.
Customer Purchase Order No:	1399960	6	8-10 Avenue de la Gare L-1610 LUXEMBOURG
Project:			
idesteender/Attiges		Assentation Conflicted to 1	Appenially Olean has a film
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041	Signed:	Roger Suarez	
USA	Date:	6/27/137	

We certify that the items detailed below meet the requirements of the customer's Purchase Order referenced above, and are in conformance with the specifications given below.

ion diagno. Gradicators (Gradicators )
--

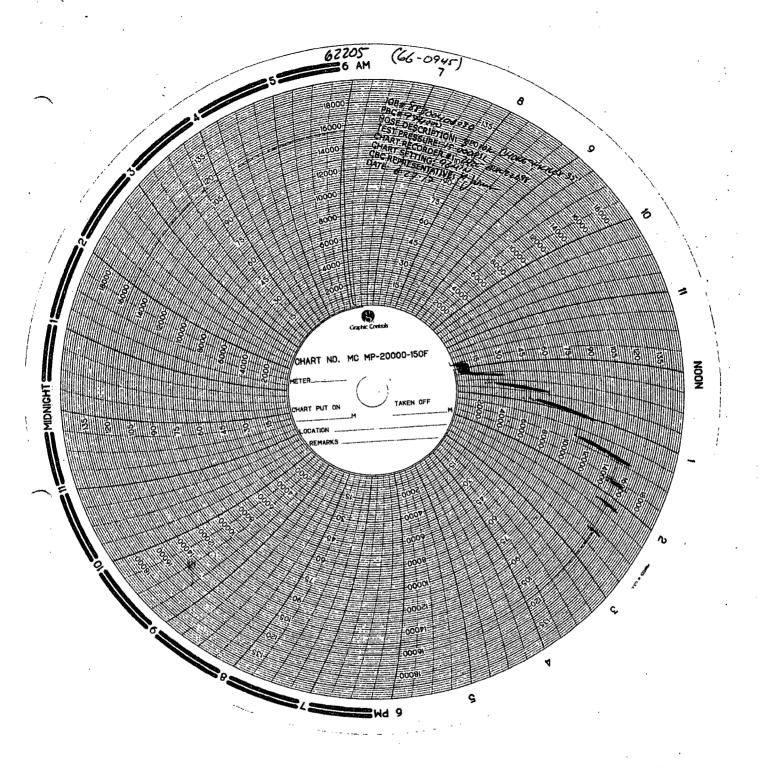
20

RECERTIFICATION - 3" ID 10K Choke & Kill Hose x 35 ft OAL

62205

ContiTech Standard

Assest # 66-0945



#### **Hose Inspection Report**

#### ContiTech Oil & Marine

Customer	Customer Reference #	COM Reference #	COM Inspector	Date of Inspection
Nabors	13999606	974000	A. Jaimes	06/27/2017

(	
Hose Manufacturer	Canadan da Dadah an Indianahal
Hose Wanutacturer	Contitech Rubber Industrial
I I DOG I I I GII GI GI GI GI	- Contracting the second secon

Hose Serial #	62205 (66-0945)	Date of Manufacture	12/2011
Hose I.D.	3"	Working Pressure	10000PSI
Hose Type	Choke and Kill	Test Pressure	15000PSI
Manufacturing St	andard API 16C		

#### Connections

End A: 4.1/16" 10Kpsi API Spec 17D Swivel Flange	End B: 4.1/16" 10Kpsi API Spec 17D Swivel Flange	
Dents     No damage		
Material: Carbon Steel	Material: Carbon Steel	
Seal Face: BX155	Seal Face: BX155	
Length Before Hydro Test: 35'	Length After Hydro test: 35'	

Conclusion: Hose #62205 passed the external inspection with no notable damage to the hose armor. The flange face on end A did have minor dents but did not affect the test outcome. It is advised that additional care be taken in order to avoid further damage to the flange face, internal borescope of the hose showed no damage to the liner. Hose #62205 passed the hydrostatic pressure test by holding a pressure of 15,000PSI for 60 minutes. Hose #62205 is suitable for continued service.

Recommendations: In general the hose should be inspected on a regular on-going basis. The frequency and degree of the inspection should as a minimum follow these guidelines:

Visual inspection: Every 3 to 6 months (or during installation/removal) Annual: In-situlpressure test (in addition to the 3 to 6 monthly inspections)

Initial 5 years service: Major inspection
2nd Major inspection; Following subsequent 3 year life cycle
(Detailed description of test regime available upon request, QCP 206-1)

\*\*NOTE: There are a number of critical elements in the hose that cannot be thoroughly checked through standard inspection techniques. Away from clissecting the hose body, the best way to evaluate the condition of the hose is through review of the operating conditions recorded during the hose service life, in particular maximums and peak conditions.

# **External Damage**

Pre - Hydro test

End A has minor dents at the edge of the seal face but did not compromise the hydrostatic pressure test. Additional care should be take in order to avoid further damage



**Issued By:** Alejandro Jaimes Date: 6/27/2017

**Checked By:** Gerson Mejia-Lazo Date: 6/27/2017

Page 1 of 1 **QF97** 

NDTUSA- ODESSA 2500 W OREGON ODESSA TX 79764 (2) Unloading point - storage location - usage ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston TX 77041-6916 (3) Delivery note no. 83854547 (8) Supplier ref. no. **OORECERTIFY** 1,700 LB 1,700 LB (9) Quantity Recertification of HP Hoses Se 974000 (13) Packing date 06/28/17 (14) Engineering change status 123198224 13999606



CONTITECH RUBBER Industrial Kft.

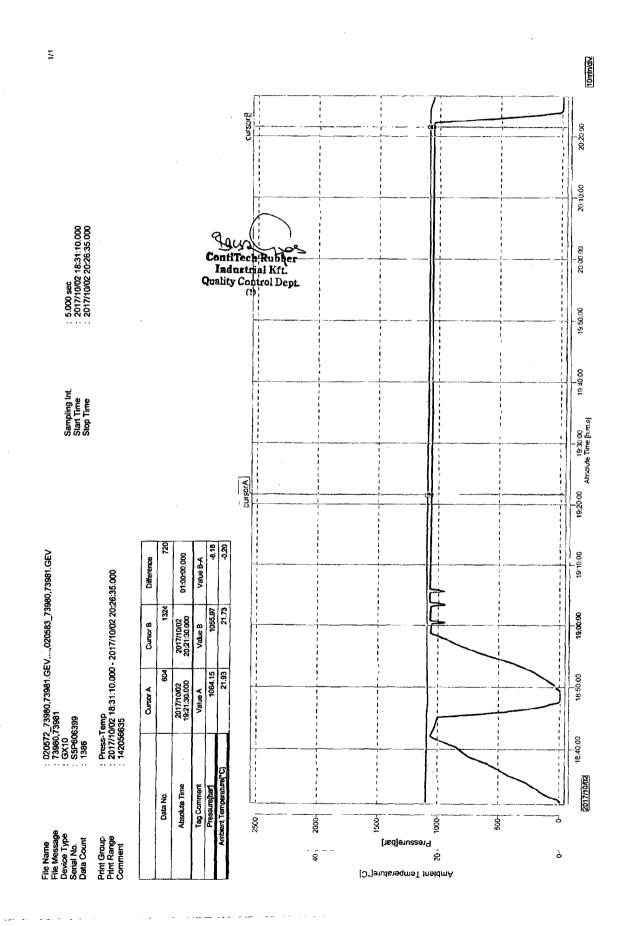
No: QC-DB- 298 / 2017

Page: 8 / 119

#### ContiTech

QUAI INSPECTION	LITY CON		CATE		CERT. N	 N°:	682	
PURCHASER:	Oil & Marine (	Corp.	ı	P.O. Nº:		45009849	922	
CONTITECH RUBBER order N	·: 987778	HOSE TYPE:	3"	ID		Choke an	d Kill Hose	
HOSE SERIAL N°:	73981	NOMINAL / AC	TUAL LEN	IGTH:		13,72 n	n / 13,80 m	) .
W.P. 69,0 MPa 10	)000 psl	T.P. 103,5	MPa	15000	) psi	Duration:	60	min.
Pressure test with water at ambient temperature								
COUPLINGS Typ	pe	Serial	l N°		Qu	ality	Hea	it N°
3" coupling with	)	8077	8083		AISI	4130	A09	39Y
4 1/16" 10K API Swivel F	lange end				AISI	4130	037184	85913
Hub					AISI	4130	A09	39Y
Not Designed For We TAG NO.: 66-1486  All metal parts are flawless	ell Testing			AF	-		ed Edition	
WE CERTIFY THAT THE ABOVE	HOSE HAS BE	EN MANUFACTU	RED IN ACC	CORDAN	ICE WIT	H THE TERM	S OF THE OR	DER
INSPECTED AND PRESSURE TO STATEMENT OF CONFORMITY conditions and specifications of accordance with the referenced st	: We hereby of the above Purc andards, codes	certify that the abo	ove items/eq that these it and meet th	juipment tems/equ ne refeva	ulpment nt accep	were fabricate	ed inspected a	ind tested In
Date:  One of the control of the con				ces				

CONTITECH RUBBER No: QC-DB- 298 / 2017 Industrial Kft. Page: 9 / 119





CONTITECH RUBBER Industrial Kft.

No: QC-DB- 298 / 2017

Page: 21 / 119

# **ContiTech**

#### **Hose Data Sheet**

CRI Order No.	987778
Customer	ContiTech Oil & Marine Corp
Customer Order No	4500984922 CO987640
Item No.	10
Hose Type	Flexible Hose
Standard	API SPEC 16C 2ND EDITION FSL2
Inside dia in Inches	3
Length	45 ft
Type of coupling one end	FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155ST/ST INLAID RING GROOVE SOUR
Type of coupling other end	FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR
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	CONTINENTAL CONTITECH
Cover	NOT FIRE RESISTANT
Outside protection	St.steel outer wrap
Internal stripwound tube	No
Lining	OIL + GAS RESISTANT SOUR
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
Min. Bend Radius operating [m]	0,90
Min. Bend Radius storage [m]	0,90
Electrical continuity	The Hose is electrically continuous
Type of packing	WOODEN CRATE ISPM-15

ContiTech Rubber Industrial Kft. QC 2

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# ContiTech Fluid Technology

# COPY

	777011 2016 USA	Delivery Note				
	Brittmoore Park Dr., Houston, TX 77041-8916 USA	Document No. Document Date	83854547 06/28/2017			
NDTUSA- ODESSA 2500 W OREGON ODESSA TX 79764		Customer Number 11721 Customer VAT No. Supplier Number N° EORI: FR4102795330				
Transport-Details - Shipping		Sales Order Number Sales Order Date				
		Unloading Point				
Conditions		Page 1 of 2				
Shipping Conditions	0 days	Weights (Gross / I	Vat)			
Inco Terms	EXW Houston  Ex Works	Total Weight	1,700.000 LB			
		Net Weight	1,700.000 LB			

Buyer: Andras Kruppa

E-mail: Andras.Kruppa@nabors.com

PR#14438486

Rig: X31

Item	Material/Description	Quantity	Weight	
10	OORECERTIFY	1 PC	1,700.000	
			LB	1

#### Recertification of HP Hoses Serial#62205

3" ID 10K Choke and Kill Hose x 35ft OAL

End 1: 4 - 1/16" 10Kpsi API Spec 17D SV Swivel Flange End 2: 4 - 1/16" 10Kpsi API Spec 17D SV Swivel Flange

c/w BX155 ring groove SS Inlay each end Standard: API Spec 16C - Monogrammed

Working Pressure: 10,000psi Test Pressure: 15,000psi

Asset # 66-0945

Inspection & Certification includes: External inspection of the hose & couplings Internal boroscopic inspection of hose liner Hydrostatic pressure test of hose assembly

# ContiTech Fluid Technology

# **©**ntinental<u>≯</u>

Conditions

Shipping Conditions

Inco Terms

0 days

EXW Houston

Ex Works

**Delivery Note** 

Document No.

83854547

Document Date

06/28/2017

Page 2 of 2

Repair of any external damage to hose body and end connections (limited to minor repairs)

Clean & protect end connections

Inspection Report

Disposal of hose assembly if hose fails inspection and recertification process

Please Flush Hoses before sending them to our Facility.

Buyer: Andras Kruppa

E-mail: Andras.Kruppa@nabors.com

PR#14438486

Rig: X31

Inner packages

Quantity Packaging

420"X15"X15" -Loose

Material

Charge

Package number

123198224

OORECERTIFY



# **Hydrostatic Test Certificate**

ContiTech

rtificate Number	COM Order Reference 974000		Nabors Lux Finance 2 S.a.r.L.
ustomer Purchase Order No: 13999606		16	8-10 Avenue de la Gare L-1610 LUXEMBOURG
Project:			
Accordance Addition	W	Alagratus ill vaccol full as a calcon	AVerriority Commission ten
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041	Signed:	Roger Suarez	
USA	Date:	6/27/19	

We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.



20

RECERTIFICATION - 3" ID 10K Choke & Kill Hose x 35 ft OAL

62205 10,000

10,000 psi 15,000 psi

60

Assest # 66-0945

# **Certificate of Conformity**



ContiTech

rtificate Number 4000	COM Or 974000	der Reference	Nabors Lux Finance 2 S.a.r.L.
Customer Purchase Order No:	1399960	6	8-10 Avenue de la Gare L-1610 LUXEMBOURG
Project:			
		y rojente provincia diliperationi della	s de la comitación de desergio de la compansión de la compansión de la compansión de la compansión de la compa
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041	Signed:	Roger Suarez	
USA	Date:	6/27/13	

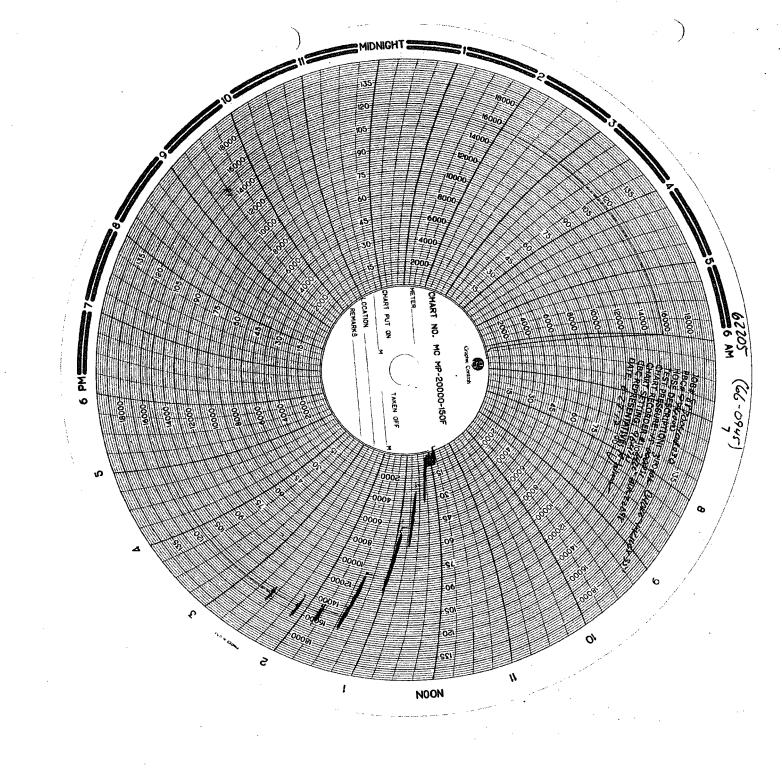
We certify that the items detailed below meet the requirements of the customer's Purchase Order referenced above, and are in conformance with the specifications given below.



20

RECERTIFICATION - 3" ID 10K Choke & Kill Hose x 35 ft OAL

62205 Assest # 66-0945 ContiTech Standard



### **Hose Inspection Report**

Customer	Customer Reference #	COM Reference #	COM Inspector	Date of Inspection
Nabors	13999606	974000	A. Jaimes	06/27/2017

Hose Manufacturer	Contitech Rubber Industrial

Hose Serial #	62205 (66-0945)	Date of Manufacture	12/2011	
Hose I.D.	3"	Working Pressure	10000PSI	
Hose Type	Choke and Kill	Test Pressure	15000PSI	
Manufacturing St	tandard API 16C			

#### **Connections**

End A: 4.1/16" 10Kpsi API Spec 17D Swivel Flange	End B: 4.1/16" 10Kpsi API Spec 17D Swivel Flange
• Dents	No damage
Material: Carbon Steel	Material: Carbon Steel
Seal Face: BX155	Seal Face: BX155
Length Before Hydro Test: 35'	Length After Hydro test: 35'

Conclusion: Hose #62205 passed the external inspection with no notable damage to the hose armor. The flange face on end A did have minor dents but did not affect the test outcome. It is advised that additional care be taken in order to avoid further damage to the flange face. Internal borescope of the hose showed no damage to the liner. Hose #62205 passed the hydrostatic pressure test by holding a pressure of 15,000PSI for 60 minutes. Hose #62205 is suitable for continued service.

Recommendations: In general the hose should be inspected on a regular on-going basis. The frequency and degree of the inspection should as a iminimum follow these guidelines:

Visual inspection: Every 3 to 5 months (or during installation/removal)
Annual: In situ pressure test (in addition to the 3 to 6 monthly inspections)
Initial 5 years service: Major inspection
2nd Major inspection Collowing subsequent 3 year life cycle
(Detailed description of test regime available upon request, QCP 206-1)

\*\*NOTE: There are a number of critical elements in the hose that cannot be thoroughly checked through standard inspection techniques. Away from dissecting the hose body, the best way to evaluate the condition of the hose is through review of the operating conditions recorded during the hose service life, in particular maximums and peak

**External Damage** Pre - Hydro test

End A has minor dents at the edge of the seal face but did not compromise the hydrostatic pressure test. Additional care should be take in order to avoid further damage



Issued By: Alejandro Jaimes Date: 6/27/2017

Checked By: Gerson Mejia-Lazo Date: 6/27/2017

Page 1 of 1 **QF97** 

พื้ที่วันีSA- ODESSA 2500 W OREGON ODESSA TX 79764	(2) Unloading point - storage location - usage
(3) Delivery note no. 83854547	ContiTech Öil & Marine Corp. 11535 Brittmoore Park Drive Houston TX 77041-6916
OORECE	RTIFY
(9) Quantity	(5) Nat weight 1,700 LB (6) Gross weight 1,700 LB (7) Number of packages 1
(12) Contil ech Sales order no.	Recertification of HP Hoses Se
974000	(13) Packing data 06/28/17
123198224	(16) Customer PO no. 13999606

66-0945

62205



Industrial Kft.

CONTITECH RUBBER No: QC-DB- 298 / 2017

Page:

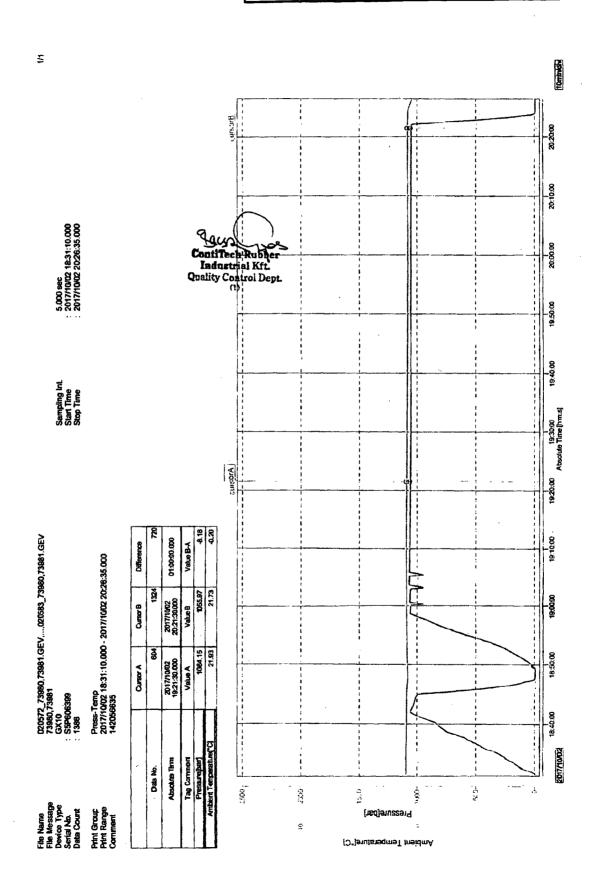
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#### ContiTech

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE					N°:	682		
PURCHASER:	ContiTech (	Oil & Marine C	orp.	P.O. N°	•	45009849	22	
CONTITECH RUBBER order No	HOSE TYPE:	3" ।	D	Choke and	d Kill Hose			
HOSE SERIAL N°:	73981	NOMINAL / ACT	TUAL LEN	GTH:	13,72 n	n / 13,80 m		
W.P. 69,0 MPa 10	000 psi	T.P. 103,5	MPa	15000 psi	Duration:	60	min.	
Pressure test with water at ambient temperature  See attachment ( 1 page )								
COUPLINGS Typ	Ð	Serial	N°	Qu	uality	Heat	l N°	
3" coupling with		8077	8083	AISI	4130	A09:	39Y	
4 1/16" 10K API Swivel Fi	lange end			AISI	4130	037184	85913	
Hub	,			AISI	4130	A0939Y		
Not Designed For We	II Testing			·	ec 16 C 2º			
All metal parts are flawless WE CERTIFY THAT THE ABOVE INSPECTED AND PRESSURE TE	HOSE HAS BE	EN MANUFACTUR VE WITH SATISFA	RED IN ACC	ORDANCE WIT	TH THE TERM	S OF THE OR	DÉR	
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								
Date: Inspector  03. October 2017.				_ 1	antiTech Rub Industrial Ka elity Control	٤	3	

ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE No: 681, 682

CONTITECH RUBBER No: QC-DB- 298 / 2017 Industrial Kft. Page: 9 / 119





CONTITECH RUBBER No: QC-DB- 298 / 2017 Industrial Kft. Page: 21 / 119

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**ContiTech** 

#### **Hose Data Sheet**

CRI Order No.	987778
Customer	ContiTech Oil & Marine Corp
Customer Order No	4500984922 CO987640
Item No.	10
Hose Type	Flexible Hose
Standard	API SPEC 16C 2ND EDITION FSL2
Inside dia in inches	3
Length	45 ft
Type of coupling one end	FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155ST/ST INLAID RING GROOVE SOUR
Type of coupling other end	FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID RING GROOVE SOUR
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	CONTINENTAL CONTITECH
Cover	NOT FIRE RESISTANT
Outside protection	St.steel outer wrap
Internal stripwound tube	No
Lining	OIL + GAS RESISTANT SOUR
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
Min. Bend Radius operating [m]	0,90
Min. Bend Radius storage [m]	0,90
Electrical continuity	The Hose is electrically continuous
Type of packing	WOODEN CRATE ISPM-15

ContiTech Rubber Industrial Kft. QC 2

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#### **Casing Program**

Hole Size	Casin From	nterval To	Csg. Si	ze Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17.5"	0	1190	13.375	54.5	J55	STC	2.12	5.92	7.93
12.25"	0	12140	9.625	47	HCL80	втс	1.45	1.03	1.97
8.5	0	22,476	5.5"	23	P110	втс	1.78	2.11	2.51
				BLM Minimu	m Safety	y Factor	1.125	1	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Intermediate burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

#### **Casing Program**

Hole Size	Casin	Interval To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17.5"	0	1190	13.375"	54.5	J55	STC	2.12	5.92	7.93
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# COG Operating, LLC - Fasconator Fed Com 604H

#### 1. Geologic Formations

TVD of target	12,532' EOL	Pilot hole depth	NA
MD at TD:	22,476'	Deepest expected fresh water:	207'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1104	Water	
Top of Salt	1301	Salt	
Base of Salt	5149	Salt	
Lamar	5475	Salt Water	
Bell Canyon	5498	Salt Water	·
Cherry Canyon	6473	Oil/Gas	
Brushy Canyon	8081	Oil/Gas	
Bone Spring Lime	9324	Oil/Gas	
U. Avalon Shale	9674	Oil/Gas	
L. Avalon Shale	9915	Oil/Gas	
1st Bone Spring Sand	10483	Oil/Gas	
2nd Bone Spring Sand	11189	Oil/Gas	
3rd Bone Spring Sand	12139	Target Oil/Gas	
Wolfcamp	12569	Not Penetrated	

#### 2. Casing Program

Hole Size	Ca	asing	Csg. Siz	Weight	Grade C	Comm	SF	SF Burst	SF
HOIE SIZE	From	То	Csg. 512	(lbs)	(lbs) Grade		Collapse	or burst	Tension
17.5"	0	1190	13.375	54.5	J55	STC	2.12	5.92	7.93
12.25"	0	12140	9.625"	47	HCL80	втс	1.45	1.03	1.97
8.5	0	22,476	5.5"	23	P110	втс	1.78	2.11	2.51
BLM Minimum Safety Factor					1.125	1	1.6 Dry 1.8 Wet		

Intermediate casing will be kept at least 1/3 full while running casing.to mitigate collapse. Intermediate burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

# COG Operating, LLC - Fasconator Fed Com 604H

	YorN
Is casing new? If used, attach certification as required in Onshore Order #1	Υ
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Υ
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef? Is well within the designated 4 string boundary?	·
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
ls well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

# COG operating, LLC - Fasconator Fed Com 604H

### 3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H₂0 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	520	13.5	1.75	9	12	Lead: Class C + 4% Gel
Suri.	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Inter.	1000	11	2.8	19	48	Lead: NeoCem
Stage1	300	16.4	1.1	5	8	Tail: Class H
				DV Too	l'@ 5480'	
Inter.	760	11	2.8	19	48	Lead: NeoCem
Stage2	100	14.8	1.35	6.34	8	Tail: Class C + 2% Cacl
5.5 Prod	400	12.7	2	10.6	16	Lead: 35:65:6 H Blend
3.5 P100	2850	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results
Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 <sup>st</sup> Intermediate	0'	50%
Production	11,140'	35%

#### COG Operating, LLC - Fasconator Fed Com 604H

#### 4. Pressure Control Equipment

N A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		x	Tested to:	
			Ann	ular	Х	2500 psi	
	13-5/8"	, 5M	Blind Ram			5M	
12-1/4"			Pipe Ram		Х		
			Double Ram		Х		
			Other*				
			5M A	nnular	Х	5000 psi	
			Blind Ram			10M	
8-3/4"	13-5/8"	10M	Pipe Ram		Х		
			Double Ram		Х		
			Other*			1	

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

	Formation integrity test will be performed per Onshore Order #2.				
Y	On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.				
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.				
	N Are anchors required by manufacturer?				
N	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.				

# COG Operating, LLC - Fasconator Fed Com 604H

#### 5. Mud Program

	Depth	T	Weight	Vincelle	Motor Long
From	То	Туре	(ppg)	Viscosity	Water Loss
0	Surf. Shoe	FW Gel	8.4 - 8.6	28-29	N/C
Surf csg	Int shoe	Diesel Brine Emul	8.6 - 9.4	30-40	N/C
Int shoe	Lateral TD	ОВМ	10.5 - 12.5	30-40	20

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
What will be used to mornion the loss or gain or huld?	[FV1/Fason/visual Monitoring ]

## 6. Logging and Testing Procedures

Logging, Coring and Testing.				
Υ Υ	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.			
N	Are Logs are planned based on well control or offset log information.			
N	Drill stem test? If yes, explain.			
N	Coring? If yes, explain.			

Ad	ditional logs planned	Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Υ	Mud log	Intermediate shoe to TD
N	PEX	

**Operator Name: COG OPERATING LLC** 

Well Name: FASCINATOR FEDERAL COM

Well Number: 604H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	ΟΛΤ
PPP Leg #1	330	FNL	450	FWL	248	35E	30	Aliquot NWN W	32.19482	- 103.4137 06	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	- 907 8	126 50	124 50
PPP Leg #1	0	FNL	450	FWL	248	35E	31	Aliquot NWN W	32.18099	- 103.4136 73	LEA	1	NEW MEXI CO	F	NMNM 014164	- 921 5	173 00	125 87
PPP Leg #1	264 0	FSL	450	FWL	248	35E	31	Aliquot NWS W	32.17396	- 103.4136 56	LEA	NEW MEXI CO	NEW MEXI CO	F	FEE	- 924 8	199 00	126 20
PPP Leg #1	132 0	FNL	450	FWL	24S	35E	30	Aliquot SWN W	32.17747 5	- e 103.4136 64	LEA	1	NEW MEXI CO	F	NMNM 132947	- 923 2	186 00	126 04
EXIT Leg #1	330	FSL	450	FWL	24S	35E	31	Aliquot SWS W	32.16763 3	- 103.4136 42	LEA		NEW MEXI CO	F	NMNM 132947	- 927 7	222 00	126 49
BHL Leg #1	200	FSL	450	FWL	245	35E	31	Aliquot SWS W	32.16727 5	- 103.4136 39	LEA		NEW MEXI CO	F		- 928 0	224 76	126 52

#### COG Operating, LLC - Fasconator Fed Com 604H

#### 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8150 psi at 12532' TVD
Abnormal Temperature	NO 180 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H2S is present		
Y	H2S Plan attached		

#### 8. Other Facets of Operation

Y	Is it a walking operation?
N	ls casing pre-set?

х	H2S Plan.
х	BOP & Choke Schematics.
×	Directional Plan
×	5M Annular Variance