HOBBS O					MIN GURF
AUG 1 6 2018	Carl	Isbad Fin	- ST		-
(March 2012) RECEIVER	TED STATES	<b>Isbad Field OCD Hob</b>		FORM A OMB No Expires Oc	APPROVED 1004-0137 tober 31, 2014
	NT OF THE INTERI OF LAND MANAGEM	IOR ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	×939	5. Lease Serial No. NMNM014164	
APPLICATION FOR				6. If Indian, Allotee of	or Tribe Name
a. Type of work: 🖌 DRILL	REENTER			7. If Unit or CA Agree	ment, Name and No.
b. Type of Well: 🔽 Oil Well 🗌 Gas Wel	1 Other	✓ Single Zone 🗌 Multip	ole Zone	8. Lease Name and W FASCINATOR FEDI	ell No. (322259) ERAL COM 604H
2 Name of Operator COG OPERATING LLC	229131	)		9. API Weit No.	45110
a. Address 600 West Illinois Ave Midland		one No. (include area code) 683-7443			xploratory (98095)
Location of Well (Report location clearly and i	n accordance with any State re	equirements.*)	<u> </u>	11. Sec., T. R. M. or Blk	
At surface NWNW / 210 FNL / 360 FWL				SEC 30 / T24S / R3	5E / NMP
At proposed prod. zone SWSW / 200 FSL / 4. Distance in miles and direction from nearest tow 12 miles		72757 LONG -103,4136		12. County or Parish LEA	13. State NM
5 Distance from proposed* location to nearest 200 feet property or lease line, ft.	16. No 1961.	o of acres in lease	17. Spacing 320	Unit dedicated to this we	ell
(Also to nearest drig. unit line, if any) 3. Distance from proposed location*	19. Pr	oposed Depth	20. BLM/BI	A Bond No. on file	
to nearest well, drilling, completed, 2974 feet applied for, on this lease, ft.	12652	2 feet / 22476 feet	FED: NM		
1. Elevations (Show whether DF, KDB, RT, GL, 3372 feet		pproximate date work will sta 1/2018	rt* :	<ul><li>23. Estimated duration</li><li>30 days</li></ul>	
		Attachments			
he following, completed in accordance with the requ	irrements of Onshore Oil and				
. Well plat certified by a registered surveyor. . A Drilling Plan.	$\sim$	Item 20 above).	he operations	unless covered by an e	xisting bond on file (see
A Surface Use Plan (if the location is on Natio SUPO must be filed with the appropriate Forest	nal Forest System Lands, th Service Office).	the 5. Operator certific 6. Such other site BLM.		mation and/or plans as r	nay be required by the
5. Signature (Electronic Submission)		Name (Printed/Typed) Mayte Reyes / Ph: (575)	748-6945		Date 03/27/2018
tle Regulatory Analyst					
pproved by (Signature) (Electronic Submission)		Name (Printed/Typed) Cody Layton / Ph: (575)2	234-5959		Date 08/02/2018
ile	C	Office			<u> </u>
Assistant Field Manager Lands & Minerals pplication approval does not warrant or certify that		CARLSBAD or equitable title to those righ	ts in the subje	ct lease which would en	title the applicant to
onduct operations thereon.) onditions of approval, if any, are attached.		· · · ·	-		
tle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section ates any false, fictitious or fraudulent statements o	n 1212, make it a crime for a representations as to any ma	any person knowingly and v atter within its jurisdiction.	villfully to ma	ke to any department or	agency of the United
Continued on page 2) 6 CP Rec 08/16/10	5	WITH CONDITI	ONS	1 *(Instru 1 8   17	uctions on page 2)
	APPROVED	WIII W		V	

Approval Date: 08/02/2018

Jaw Si 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.

# NOTIÇES

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)

# Additional Operator Remarks

#### **Location of Well**

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: -103.413656 (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 / 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: 32.19482 / 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)
PPP: NWSW / 200 FSL / 450 FWL / TWSP: 24S / RANGE: 35E / SECTION: 31 / LAT: 32.18775 / LONG: -103.413691 (TVD: 12554 feet, MD: 14650 feet)
BHL: SWSW / 200 FSL / 450 FWL / TWSP: 24S / RANGE: 35E / SECTION: 31 / LAT: 32.18775 / LONG: -103.413691 (TVD: 12554 feet, MD: 14650 feet)

### **BLM Point of Contact**

Name: Priscilla Perez Title: Legal Instruments Examiner Phone: 5752345934 Email: pperez@blm.gov

### **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.

# 

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

#### APD ID: 10400028755

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Type: OIL WELL

# Application Data Report

08/03/2018

Submission Date: 03/27/2018

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Show Final Text

Well	Number: 604H	
Well	Work Type: Drill	

Section 1 - General		
APD ID: 10400028755	Tie to previous NOS?	Submission Date: 03/27/2018
BLM Office: CARLSBAD	User: Mayte Reyes	Title: Regulatory Analyst
Federal/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? R	eservation:
Agreement in place? NO	Federal or Indian agreement	:
Agreement number:		
Agreement name:		
Keep application confidential? YES		
Permitting Agent? NO	APD Operator: COG OPERA	TING LLC
Operator letter of designation:		

**Operator Info** 

Operator Organization Name: COG OPERATING LLC

Operator Address: 600 West Illinois Ave

**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

Well in Master SUPO? NO

Well in Master Drilling Plan? NO

Well Name: FASCINATOR FEDERAL COM

Field/Pool or Exploratory? Field and Pool

Mater Development Plan name: Master SUPO name: Master Drilling Plan name: Well Number: 604H

Field Name: WILDCAT

Zip: 79701

Well API Number:

Pool Name: BONE SPRING

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

Page 1 of 3

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 n	earest well: 2974 FT Distan	ce to lease line: 200 FT
Reservoir well spacing assigned acres Measuremen	t: 320 Acres	
Well plat: COG_Fascinator_604H_C102_20180327	084654.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	QW	TVD
SHL Leg #1	210	FNL	360	FWL	24S	35E	30	Aliquot NWN W	32.19517	- 103.4139 96	LEA	NEW MEXI CO		S	STATE	337 2	0	0
KOP Leg #1	210	FNL	360	FWL	24S	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		F	FEE	- 918 2	146 50	125 54

# 

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

APD ID: 10400028755

**Operator Name: COG OPERATING LLC** 

Well Name: FASCINATOR FEDERAL COM

Well Number: 604H Well Work Type: Drill Show Final Text

Well Type: OIL WELL

# Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
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		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**

Drilling Plan Data Report

08/03/2018

Highlighted dates will also the dates

Submission Date: 03/27/2018

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	N	0	1190	0	1190	-9411	- 10581	1190	J-55	54.5	STC	2.12	5.92	DRY	7.93	DRY	7.93
· 2	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
	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 - Ce	emen	t								
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

	Circ	ulating Mediu	um Ta	able							
Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	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

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



**10M BOP Stack** 









**ContiTech Fluid Technology** 

# COPY

ContiTech Oil	& Marine Corp. # 11535 Brit	tmoore Park Dr., Houston, TX 77041-8916 USA	D	elivery l	Note		
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item	Material/Descript	tion		Quai	ntity	Weight	
10	OORECERTIFY			1	PC 1	,700.000	
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	3" ID 10K Choke and	d Kill Hose x 35ft OAL					
ł	End 1: 4 - 1/16" 10	Kpsi API Spec 17D SV Swivel Flange					
l		Kpsi API Spec 17D SV Swivel Flange					
	c/w BX155 ring groo	ove SS Inlay each end					
1		16C - Monogrammed					
	Working Pressure: 1						
ľ	Test Pressure: 15,0	lOOpsi					
	Asset # 66-0945						
	Inspection & Certific	ation includes:					
	External inspection of	of the hose & couplings					
Į .		nspection of hose liner					
<b></b>	Hydrostatic pressure	e test of hose assembly					
L					· ì		

ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA

Phone: (832)-327-0141 Fax: (832)-327-0148 www.contitech-oil-gas.com

Managing Director (President) Zuzana Czovek Bank: Wells Fargo Bank, N.A., 420 Montgomery Street, San Francisco, CA 94163 Account #: 4942692294 ABA/Routing #: 121000248, SWIFT #: WFBIUS65

# Ontinental 🏂

**ContiTech Fluid Technology** 

Conditions		Delivery Note	
Shipping Conditions	0 days	Document No.	83854547
nco Terms	EXW Houston	Document Date	06/28/2017
	Ex Works	Page 2	
		1 496 2	
Repair of any ext	ternal damage to hose body and	end connections (limited to minor repairs	
Clean & protect			
Inspection Repor			
Disposal of hose	assembly if hose fails inspectio	on and recertification process	
Please Flush Hos	es before sending them to our l	Facility.	
Buyer: Andras K	ruppa		
E-mail: Andras.K	ruppa@nabors.com		
PR#14438486			
PR#14438486			
Rig: X31			
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<sub>Rig:</sub> X31 Inner packages Quantity Packaging	X15" -Loose	Material 00RECERTIFY	Charge 1
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# **Ontinental**

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# Hydrostatic Test Certificate

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-			ContiTech
Ttificate 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:			
1922 TORCONG Addition		Auroannollavi(Bol/Harmanfran	······································
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041	Signed:	Roger Suarez	
USA	Date:	10/27/17	

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.

					( lenging
DECERTIEICA	TION - 3" ID 10K Choke & Kill Hose x 35 ft OAL		62205	10,000 psi 15,000 psi	60
RECERTIFICA		As	62200 sest # 66-094		

# **Ontinental**

# **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:		•	
		Zimenenteringenolitherasiten	
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041	Signed:	Roger Suarez	
USA	Date:	6/27/1	

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.

			Assest # 66-0945		
20	RECERTIFICATION - 3" ID 10K Choke & Kill Hose x 35 ft OAL	1	62205	ContiTech Standard	
Contraction of Contra		and the second			an da i arthad
				Should Have	

HCO974000 Nabors.xisx



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**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 and Kill	Test Pressure	15000PSI	
Manufacturing St	andard API 16C		·	
Connections				
End A: 4.1/16" 1	OKpsi API Spec 17D Swivel Flange	End B: 4.1/16" 10Kpsi API Spec 17D Swivel Flange		
Dents	······································	No damage		
Material: Carbor	Steel	Material: Carbon Steel		
Seal Face: BX155	• • •	Seal Face: BX155		
Length Before Hy	dro Test: 35'	Length After Hydro tes	it: 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. <u>Hose #62205 is sultable for continued service.</u>

**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 fitupressure 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 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



66-0945 62205



CONTITECH RUBBER	No: QC-DB- 298 / 2017
Industrial Kft.	Page: 8 / 119

ContiTech

QUALITY CON INSPECTION AND TES							ATE		CERT. N	<b>۱</b> °:	682	
PURC	HASER:		Conti	Tech (	Sil & I	Marine (	Corp.		P.O. N°:		45009849	922
CONTI	TECH RUB	BER orde	er №: 987	778	HOS	E TYPE:	3"	ID	•	Choke an	d Kill Hose	
HOSE	SERIAL N	l°:	73	73981 NOMINAL / AC			TUAL L	ENGTH	•	13,72 r	m / 13,80 m	ו
W.P.	69,0	MPa	10000	psi	T.P.	103,5	MPa	150	00 psi	Duration:	60	min.
	ure test with nt tempera		t		See a	attachm	ient (	1 page	e)			
	COU	PLINGS	Туре			Serial	N°		Qu	ality	Hea	t N°
	3" c	oupling	with		8(	)77	808	3	AISI	4130	A09	39Y
4 1/	'16" 10K A	PI Swive	el Flange (	end					AISI	4130	037184	85913
		Hub							AISI	4130	A0939Y	
	Designe NO.: 60		Well Tes	sting				,	·		<sup>nd</sup> Edition	
WE CE INSPEC	MENT OF Cons and spe	T THE AB PRESSUR CONFORM	OVE HOSE E TESTED A AITY: We to of the above	AS ABO hereby c ve Purch , codes :	VE WI1 ertify the haser C and spe	H SATISF	ACTORY ove Items that these and mee	RESUL /equipme e items/e t the rele	T. equipment vant accep	by us are in were fabricate	S OF THE OR conformity with ed inspected a and design req	h the terms, nd tested in
Date: 03. October 2017. 03. October 2017. 03. October 2017. 03. October 2017. 03. October 2017. 03. October 2017. 03. October 2017. 04. October 2017. 05. Oc						San -						

ContiTech Rubber Industrial Kft. | Budapesti út 10. H-8728 Szeged | H-6701 P.O.Box 152 Szeged, Hungary Phone: +36 62 566 737 | Fax: +36 62 566 738 | e-mali: info@fluid.contilech.hu | Internet: www.contitech-rubber.hu; www.contitech.hu The Court of Csongrad County as Registry Court Registry Court No: Cg.06-09-002502 | EU VAT No: HU11087209 Bank data Commerzbank Zrt., Budapest | 14220108-26830003

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

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



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CONTITECH RUBBERNo: QC-DB- 298 / 2017Industrial Kft.Page: 21 / 119

# ContiTech

# **Hose Data Sheet**

CRI Order No.	987778
Customer	ContiTech Oil & Marine Corp
Customer Order No	4500984922 CO987640
Item No.	10
Ноѕе Туре	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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# **Ontinental**

ContiTech Fluid Technology

COPY

ContiTech (	Oil & Marine Corp. # 11535 Brittmoore Park Dr., Houston, TX 77041-6916 USA	Delivery Note	·
		Document No.	83854547
	ISA- ODESSA	Document Date	06/28/2017
	W OREGON	Customer Number	11721
ODES	SA TX 79764	Customer VAT No.	
		Supplier Number	
		N° EORI:	FR4102795330002
		Purchase Order No	. 13999606
Trapen	port-Details - Shipping	Purchase Order Da	te 06/26/2017
iransp	ont-Details - Shipping	Sales Order Numbe	er 974000
		Sales Order Date	06/26/2017
		Unloading Point	
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	ing Conditions 0 days		
Inco T		Mainher (Orani in	- 41
	Ex Works	Weights (Gross / N Total Weight	
		Net Weight	1,700.000 LB 1,700.000 LB
	Buyer: Andras Kruppa		1,700.000 LB
	E-mail: Andras.Kruppa@nabors.com		
	PR#14438486		
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ltem	Rig: X31 Material/Description	Quantity	Matuka
<b>Item</b> 10	Rig: X31	Quantity	Weight
	Rig: X31 Material/Description OORECERTIFY	Quantity	1,700.000
	Rig: X31 Material/Description OORECERTIFY Recertification of HP Hoses Serial#62205	Quantity	
	Rig: X31 Material/Description OORECERTIFY	Quantity	1,700.000
	Rig: X31 Material/Description OORECERTIFY Recertification of HP Hoses Serial#62205 3" ID 10K Choke and Kill Hose x 35ft OAL	Quantity	1,700.000
	Rig: X31 Material/Description OORECERTIFY 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	Quantity	1,700.000
	Rig: X31 Material/Description OORECERTIFY 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 End 2: 4 - 1/16" 10Kpsi API Spec 17D SV Swivel Flange C/w BX155 ring groove SS Inlay each and	Quantity	1,700.000
	Rig: X31 Material/Description OORECERTIFY 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	Quantity	1,700.000
	Rig: X31 Material/Description OORECERTIFY 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	Quantity	1,700.000
	Rig: X31 Material/Description OORECERTIFY 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	Quantity	1,700.000
	Rig: X31 Material/Description OORECERTIFY 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	Quantity	1,700.000
	Rig: X31     Material/Description     OORECERTIFY     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 # 56,0045     Inspection & Certification includes:	Quantity	1,700.000
	Rig: X31     Material/Description     OORECERTIFY     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 # 56,0043     Inspection & Certification includes:     External inspection of the hose & couplings	Quantity	1,700.000
	Rig: X31     Material/Description     OORECERTIFY     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	Quantity	1,700.000

ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA

Phone: (832)-327-0141 Fax: (832)-327-0148 www.contitech-oil-gas.com

Managing Director (President) Zuzana Czovek

V ant

Bank: Wells Fargo Bank, N.A., 420 Montgomery Street, San Francisco, CA 94163 Account #: 4942692294 ABA/Routing #: 121000248, SWIFT #: WFBIUS6S ι, '

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ContiTech Fluid Technology



Conditions Shipping Conditions Inco Terms	0 days EXW Houston Ex Works	Delivery Note Document No. Document Date Page 2 d	83854547 06/28/2017 of 2
Repair of any e Clean & protec Inspection Rep	t end connections	end connections (limited to minor repairs	)
Disposal of hos	se assembly if hose fails inspectio	n and recertification process	
Please Flush H	oses before sending them to our	Facility.	
PR#14438486	Kruppa@nabors.com		
Rig: X31			
Quantity Packagin	9	Material	Charge
	"X15" -Loose	OORECERTIFY	1
Package number	123198224		
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# **Ontinental**

# Hydrostatic Test Certificate

4000 Customer Purchase Order No: Project: ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA We certify that the goods detailed our knowledge are found to co 20 RE	onform the req	Roger Suarez 6/27/14 been inspected as uirements of the a	above referenced pa prporation.		de la Ga EMBOUR	re G VSNMM	and to the	besto
Project: ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA We certify that the goods detailed our knowledge are found to co	Signed: Date: d hereon have onform the req	Roger Suarez 6/27/15 been inspected as uirements of the a Co	s described below b above referenced pu prporation.	L-1610 LUXI		G V Sherikal	and to the	best o
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA We certify that the goods detailed our knowledge are found to ca	Signed: Date: d hereon have onform the req	Roger Suarez 6/27/45 been inspected as juirements of the a Co	s described below b above referenced pu prporation.	ov our Quality Ma		nt System.	and to the	best (
ContiTech Oil & Marine Corp. 1535 Brittmoore Park Drive Houston, TX 77041 JSA We certify that the goods detailed our knowledge are found to ca	Signed: Date: d hereon have onform the req	Roger Suarez 6/27/45 been inspected as juirements of the a Co	s described below b above referenced pu prporation.		inagemei	nt System.	and to the	best ( rine
1535 Brittmoore Park Drive Iouston, TX 77041 JSA We certify that the goods detailed our knowledge are found to ce	Date: d hereon have onform the req	been inspected as uirements of the a Co	above referenced pa prporation.	y our Quality Ma urchase order as	inagement issued to	nt System, o ContiTec	and to the ch Oil & Ma	best o
Houston, TX 77041 JSA We certify that the goods detailed our knowledge are found to ca	Date: d hereon have onform the req	been inspected as uirements of the a Co	above referenced pa prporation.	y our Quality Ma urchase order as	nagemen issued to	nt System, o ContiTec	and to the ch Oil & Ma	best o
JSA We certify that the goods detailed our knowledge are found to ce	d hereon have onform the req	been inspected as uirements of the a Co	above referenced pa prporation.	y our Quality Ma urchase order as	inagement issued to	nt System, o ContiTec	and to the ch Oil & Ma	best of
We certify that the goods detailed our knowledge are found to ce	d hereon have onform the req	been inspected as uirements of the a Co	above referenced pa prporation.	y our Quality Ma urchase order as	inagement issued to	nt System, o ContiTec	and to the ch Oil & Ma	best ( rine
our knowledge are found to o	onform the req	uirements of the a	above referenced pa prporation.	urchase order as	inagement issued to	o ContiTec	and to the	rine
20 RE	CERTIFICATION						L. Sector 1	
20 RE	CERTIFICATION	- 3" ID 10K Choke &						0.80
20 RE	CERTIFICATION	- 3" ID 10K Choke &	1414.4.4.		and the state of the state of the		的政策机	<b>antin'i</b>
			Kill Hose x 35 ft OAL		2205 \$ 66-0945	10,000 psi	15,000 psi	60
					•			
Λ.								
							•	

# **Ontinental**

# **Certificate of Conformity**

rtificate Number 4000	COM Order Reference 974000		Nabors Lux Finance 2 S.a.r.L.
Customer Purchase Order No:	1399960	6	8-10 Avenue de la Gare L-1610 LUXEMBOURG
Project:			
ContiTech Oil & Marine Corp.		Appendication Continue of Stora Continue of Stor	
11535 Brittmoore Park Drive Houston, TX 77041	Signed:	- Callo	
USA	Date:	6/27/12	

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.

			Assest # 66-0945	i
20	RECERTIFICATION - 3" ID 10K Choke & Kill Hose x 35 ft OAL	1	62205	ContiTech Standard
			Contraction of the	i i di anti-



### **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 and Kill	Test Pressure	15000PSI			
Manufacturing St	andard API 16C					
Connections	· · · ·		·			
End A: 4.1/16" 10	Kpsi 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 Hyd	Iro 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. <u>Hose #62205 is suitable for continued service.</u>

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

Visual inspection: Every 3 to 9 months (or during installation/removal) Annual: In stuppressure 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 obtest regime available upon request, QCP 206-1)

\*\*NOTE: There are a number officing all 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.

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

**External Damage** 

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

Page 1 of 1 QF97



66-0945 62205



CONTITECH RUBBER	No: QC-DB- 298 / 2017			
Industrial Kft.	Page:	8 / 119		

ContiTech

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE								CERT. Nº:		682	
PURC	PURCHASER: ContiTech C					Dil & Marine Corp.			P.O. Nº:		922
CONTITECH RUBBER order Nº: 987778				HOSE TYPE: 3" ID				Choke and Kill Hose			
HOSE SERIAL N°: 73981			NOMINAL / ACTUAL LENGTH			H: 13,72 m / 13,80 m			)		
W.P.	69,0	MPa	10000	psi	T.P. 103,	5 MPa	1500	)0 psi	Duration:	60	min.
	ure test wil		Ľ		See attach	iment (	1 page	;)			
	cou	IPLINGS	Туре		Sei	rial N°		Qu	ality	Hea	t N°
	3" (	coupling	with		8077	808	3	AISI 4130		A0939Y	
4 1/	/16" 10K /	API Swive	el Flange	end				AISI	4130	037184	85913
Hub						AISI	4130	A0939Y			
	Not Designed For Well TestingAPI Spec 16 C 2nd Edition FSITAG NO.: 66-1486Temperature rate: "B"										
WE CE	All metal parts are flawless 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							the terms			
accorde	conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements COUNTRY OF ORIGIN HUNGARY/EU							na testea in uirements.			
Date: Inspector 03. October 2017.				ity Contro Degree	Co	atiTech Ruk adastrial K lity Control	ŝt. 🦯	apo			

Contillech Rubber Industrial Kft. | Budapesti ul 10. H-8728 Szeged | H-6701 P.O. Box 152 Szeged, Hungary Phone: +36 82 566 737 | Fax: +36 62 566 738 | e-mail: Info@fluid.contilech.hu | Internet: www.contilech.rubbar.hu; www.contilech.hu The Courd of Coongrad County as Registry Court | Registry Court No: G0.06-09-002502 | EU VAT No: HU11087209 Bank data Commerzbank Zrt., Budapest | 14220108-26830003 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<br/>Industrial Kft.No: QC-DB- 298 / 2017Page: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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#### **10M BOP Stack**





ContiTech Fluid Technology

## COPY

	& Marine Corp. # 11535 Brittmoore Park Dr., Houston, TX 77041-8916 USA	Delivery Note	
		Document No.	83854547
	A- ODESSA	Document Date	06/28/2017
	V OREGON	Customer Number	11721
ODE55	A TX 79764	Customer VAT No	
		Supplier Number	
		Nº EORI:	FR4102795330002
		Purchase Order No	. 13999606
	ve Deserie - Obienie -	Purchase Order Da	te 06/26/2017
ranspo	ort-Details - Shipping	Sales Order Numb	er 974000
		Sales Order Date	06/26/2017
		Unloading Point	
	· · · · · · · · · · · · · · · · · · ·	Page 1 of 2	
Conditi		-	
Inco Te	ng Conditions O days Arms EXW Houston	Mainhte (Crosse / 1	loel
	Ex Works	Weights (Gross / I	1,700.000 LB
		Total Weight Net Weight	1,700.000 LB
			1,700.000 LB
	Buyer: Andras Kruppa		
	E-mail: Andras.Kruppa@nabors.com		
1			
	PR#14438486		
	PR#14438486 Rig: X31		
Item		Quantity	Weight
Item 10	Rig: X31	Quantity 1 PC	Weight 1,700.000
	Rig: X31 Material/Description		
	Rig: X31 Material/Description		1,700.000
	Rig: X31 Material/Description OORECERTIFY		1,700.000
	Rig: X31 Material/Description OORECERTIFY Recertification of HP Hoses Serial#62205 3" ID 10K Choke and Kill Hose x 35ft OAL		1,700.000
	Rig: X31 Material/Description OORECERTIFY Recertification of HP Hoses Serial#62205		1,700.000
	Rig: X31 Material/Description OORECERTIFY 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		1,700.000
	Rig: X31 Material/Description OORECERTIFY 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		1,700.000
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	Rig: X31 Material/Description OORECERTIFY 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		1,700.000
	Rig: X31 Material/Description OORECERTIFY 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		1,700.000
	Rig: X31         Material/Description         OORECERTIFY         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		1,700.000
	Rig: X31 Material/Description OORECERTIFY 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		1,700.000
	Rig: X31         Material/Description         OORECERTIFY         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:		1,700.000

ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA Phone: (832)-327-0141 Fax: (832)-327-0148 www.contitech-oil-gas.com Managing Director (President) Zuzena Czovek Bank: Wells Fargo Bank, N.A., 420 Montgomery Street, San Francisco, CA 94163 Account #: 4942692294 ABA/Routing #: 121000248, SWIFT #: WFBIU86S

ContiTech Fluid Technology

onditions		Delivery Note	
hipping Conditions	0 days	Document No.	83854547
co Terms	EXW Houston	Document Date	06/28/2017
	Ex Works	Page 2 d	
Renair of any ex	ternal damage to base body and	end connections (limited to minor repairs)	·····
	end connections	end connections (annued to minor repairs)	I
Inspection Report			
	•		
Disposal of hose	assembly if hose fails inspection	n and recertification process	
Disease Church Lie		1914	
Flease Flush Ho	ses before sending them to our F	acility.	
Buyer: Andras K	ruppa		
•	Kruppa@nabors.com		
PR#14438486			
PR#14438486 Rig: X31			
Rig: X31			
Rig: X31	·····	Material	Charge
Rig: X31 Iner packages Quantity Packaging		Material OORECERTIFY	Charge 1
Rig: X31 Iner packages Quantity Packaging 1 420"X15"	"X15" -Loose	Material OORECERTIFY	Charge 1
Rig: X31 Iner packages Quantity Packaging 1 420"X15'			Charge 1
Rig: X31 Iner packages Quantity Packaging 1 420"X15"	"X15" -Loose		Charge 1
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Rig: X31 Iner packages Quantity Packaging 1 420"X15"	"X15" -Loose		Charge 1
Rig: X31 Iner packages Quantity Packaging 1 420"X15"	"X15" -Loose		Charge 1

## Hydrostatic Test Certificate

ContiTech

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Trificate Number         COM Order Reference           4000         974000		Nabors Lux Finance 2 S.a.r.L.		
Customer Purchase Order No: 13999606			8-10 Avenue de la Gare L-1610 LUXEMBOURG	
Project:		· · · · · · · · · · · · · · · · · · ·		
Anasy Comma Address 1993		Ananymithy Company and the	Accounted inviction in possible as a second	
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Date:	Roger Suarez		

vve certity 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 Assest # 66-0945

1

HCO974000 Nabors:xisx

## **Certificate of Conformity**

ContiTech

rtificate Number         COM Order Reference           4000         974000				Nabors Lux Finance 2 S.a.r.L.		
Customer Purchase Order No: 13999606				8-10 Avenue de la Gare L-1610 LUXEMBOURG		
Project:						
Test Fankszáláltan		AMERICAL BY COMUNEMATION	· · · ·	Aragital Involtantinapeotion		
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041	Signed:	Roger Suarez	I			
USA	Date:	6/27/12				

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.

## ning The Market State of the State

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

62205 Assest # 66-0945

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ContiTech Standard



#### **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 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	. <u></u>	Seal Face: BX155		
Length Before Hy	dro Test: 35'	Length After Hydro tes	t: 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. <u>Hose #62205 is suitable for continued service.</u>

**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-situ pressure test (in addition to the 3 to 6 monthly inspections) Initial 5 years cervice: 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 closecting 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



Material label VDA 4902 Vers. 4

66-0945 62205



CONTITECH RUBBER	No: QC-DB- 298 / 2017		
Industrial Kft.	Page: 8 / 119		

ContiTech

QUALITY CONTROL INSPECTION AND TEST CERTIFICATI						CERT. N	۰ ۱º:	682	
PURCHASER:	Corp.		P.O. Nº:		4500984	922			
CONTITECH RUBBER	HOSE TYPE:	3"	ID	L	Choke an	d Kili Hose	•		
HOSE SERIAL N°:	73	981	NOMINAL / AC	TUAL LE	ENGTH:		13,72 r	m / 13,80 m	
W.P. 69,0 MP	<sup>a</sup> 10000	psl	T.P. 103,5	MPa	1500	)0 psi	Duration:	60	min.
Pressure test with wat ambient temperature	er at	S	ee attachm	ent(1	page	)			
COUPLIN	GS Type		Serial	N°		Qu	ality	Hea	nt N°
3" coupl	ing with		8077	8083	3	AISI	4130	A09	39Y
4 1/16" 10K API S	wivel Flange e	nd				AISI	4130	037184	85913
Hu	ıb					AISI 4130		A0939Y	
Not Designed F TAG NO.: 66-14		ting			A	-		<sup>nd</sup> Edition	
All metal parts are flav WE CERTIFY THAT THE INSPECTED AND PRES STATEMENT OF CONF conditions and specifica	ABOVE HOSE H SURE TESTED A ORMITY: We h tions of the abov	s ABOV ereby ce e Purcha	E WITH SATISFA	ACTORY ve items/ hat these	RESULT	nt supplied	l by us are in were fabricate	conformity wi	th the terms, and tested in
accordance with the refe	renced standards,		Id specifications				tance criteria	and design req	ulrements.
Date: Inspector 03. October 2017.					ty Contro Cyrra	Co	atiTech Rub ndustriai Ki lity Control	tt. /	200

ContiTech Rubber Industrial Kft. | Budapesti ul 10. H-6728 Szeged | H-6701 P.O.Box 152 Szeged, Hungary Phone: +36 62 566 737 | Fax: +36 62 566 738 | e-mall: info@fluid.contitech.hu | Internet: www.contitech-rubber.hu; www.contilech.hu The Court of Csongrad County as Registry Court Registry Court No: Cg.06-09-002502 | EU VAT No: HU11087209 Bank data Commerzbank Zrt., Budapest | 14220108-26830003

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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

## 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

<u></u>	Batt Dr. Hauston TX 77041-8916 USA	Delivery Note	
ntiTech Oil &	Marine Corp. # 11535 Brittmoore Park Dr., Houston, TX 77041-8916 USA	Document No.	83854547
	ODESSA	Document Date	06/28/2017
	A- ODESSA OREGON	Customer Number	11721
	TX 79764	Customer VAT No.	1
		Supplier Number	
		Nº EORI:	FR410279533000
		Purchase Order No	. 13999606
		Purchase Order Da	te 06/26/2017
Transpor	rt-Details - Shipping	Sales Order Numb	
-		Sales Order Date	06/26/2017
		Unloading Point	
0 - 11 - 1		Page 1 of 2	
Conditio	ons g Conditions O days		
Inco Te	3	Weights (Gross / I	Net)
10	Ex Works	Total Weight	1,700.000 LB
		Net Weight	1,700.000 LB
	Buγer: Andras Kruppa E-mail: Andras.Kruppa@nabors.com PP#14438486		
	PR#14438486		
	Rig: X31		
ltem.	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		

ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA 
 Phone:
 (832)-327-0141
 M

 Fax:
 (832)-327-0148
 (P

 www.contitech-oil-gas.com
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Managing Director (President) m Zuzana Czovek

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Bank: Wells Fargo Bank, N.A., 420 Montgomery Street, San Francisco, CA 94103 Account #: 4942692294 ABA/Routing #: 121000248, SWIFT #: WFBIUS6S ,

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ContiTech Fluid Technology



onditions hipping Conditions nco Terms	0 days EXW Houston Ex Works	Delivery Note Document No. Document Date Page 2 d	83854547 06/28/2017 of 2
Repair of any ex Clean & protect Inspection Repor	end connections	l end connections (limited to minor repair:	s)
Disposal of hose	assembly if hose fails inspection	on and recertification process	
Please Flush Hos	ses before sending them to our	Facility.	
Buyer: Andras K E-mail: Andras.K PR#14438486	ruppa (ruppa@nabors.com		
Rig: X31			
nner packages		Material	Charge
nner packages Quantity Packaging	'X15" -Loose	Material OORECERTIFY	Charge 1
inner packages Quantity Packaging	'X15" -Loose		
Inner packages Quantity Packaging 1 420"X15'	'X15" -Loose		
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Inner packages Quantity Packaging 1 420"X15'	'X15" -Loose		
Inner packages Quantity Packaging 1 420"X15'	'X15" -Loose		

ContiTech

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### **Hydrostatic Test Certificate**

rtificate Number 4000	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:			
	1. · · · )	Anarita Marcele Maline and Man	Averaged average from the province
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Date:	Roger Suarez	

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.

uisis Courses

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

62205 10,000 psi 15,000 psi Assest # 66-0945

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HCO974000 Nabors.xisx

ContiTech

## **Certificate of Conformity**

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rtificate Number 4000	COM Or 974000	der Reference	Nabors Lux Finance 2 S.a.r.L.
Customer Purchase Order No:	1399960	16	8-10 Avenue de la Gare L-1610 LUXEMBOURG
Project:			
N. K. O. MASSISSING AND DEVICE		V NORTH COMPACTOR MULTING STOLEN AND STOLEN A	IN A REPORT OF A REAL PROVIDED AND A REAL PROVIDED AND A REAL PROVIDED AND A REAL PROVIDED AND A REAL PROVIDED
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041	Signed:	Roger Suarez	
USA	Date:	6/27/12	

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 1 82205 Contil Tech Standard Assest # 66-0945	20			00005	
	20	RECERTIFICATION - 3" ID TUK CROKE & KIII HOSE X 35 ft O	DAL 1	62205 Assest # 66-0945	ContiTech Standard
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			· .		



#### **ContiTech Oil & Marine**

#### **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	andard API 16C		
Connections			
End A: 4.1/16" 10	Kpsi API Spec 17D Swivel Flange	End B: 4.1/16" 10Kpsi A	PI Spec 17D Swivel Flange
Dents		No damage	
Material: Carbon	Steel	Material: Carbon Steel	
Seal Face: BX155		Seal Face: BX155	
Length Before Hy	dro 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. <u>Hose #62205 is suitable for continued service.</u>

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 tots 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, 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 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



66-0945 62205

CONTITECH RUBBER	No: QC-DB- 298 / 2	2017
Industrial Kft.	Page: 8 / 119	

ContiTech

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PURC	HASER:		ContiT	rech (	Dil & Marine (	Corp.		P.O. N°:		45009849	22
CONTI	TECH RU	BBER orde	er Nº: 987	778	HOSE TYPE:	3"	D		Choke an	d Kill Hose	
HOSE	SERIAL N	Nº:	73	981	NOMINAL / AC	TUAL L	ENGTH:		13,72 r	m / 13,80 m	)
W.P.	69,0	MPa	10000	psi	T.P. 103,5	MPa	1500	)() psi	Duration:	60	min
	ure test wi nt temper		ſt	ţ	See attachn	nent ( †	1 page	)			
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	3"	coupling	with		8077	808	3	AISI	4130	A09	39Y
4 1/	/16" 10K /	API Swiv	el Flange e	end				AISI	4130	037184	85913
		Hub						AISI	4130	A09	39Y
TAG	6 NO.: 6	6-1486		ting				•		nd Edition	
WE CE	tal parts a RTIFY THA	AT THE AB	OVE HOSE H	HAS BE		RED IN A	CCORD	ANCE WIT	H THE TERM	IS OF THE OR	DER
STATE	MENT OF	CONFORM	MITY: We h s of the abov	nereby c ve Purch , codes a	VE WITH SATISF vertify that the abo haser Order and and specifications COUNTRY OF OF	ove items that thes and mee	/equipme e items/e t the relev	nt supplier quipment /ant accep	were fabricat	ed inspected a	nd tested in
Date:			Inspec				ty Contro				

ContiTech Rubber Industrial Kit. | Budepesti úl 10. H-6728 Szeged | H-6701 P.O.Box 152 Szeged, Hungery Phone: +38 62 566 737 | Fax: +38 62 566 738 | e-mall: Info@fluid.contilech.hu | Internet www.contitech-rubber.hu; The Court of Csongrad County as Registry Court | Registry Court No: Cg.06-09-002502 | EU VAT No: HU11087209 Bank data Commerzbank Zrt., Budepest | 14220108-26830003 ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE No: 681, 682

CONTITECH RUBBER	No: QC-	DB- 298 / 2017
1 1 1 1 1 2 2 1	Page:	9/119





CONTITECH RUBBERNo: QC-DB- 298 / 2017Industrial Kft.Page: 21 / 119

ContiTech

#### Hose Data Sheet

CustomerContiTech Oil & Marine CorpCustomer Order No4500984922 CO987640Item No.10Hose TypeFlexible HoseStandardAPI SPEC 16C 2ND EDITION FSL2Inside dia in Inches3Length45 ftType of coupling one endFLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIN BX155ST/ST INLAID RING GROOVE SOURType of coupling other endFLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIV BX155S T/ST INLAID RING GROOVE SOURH2S service NACE MR0175YesWorking Pressure10 000 psiDesign Pressure10 000 psiSafety Factor2.25MarkingCONTINENTAL CONTITECHCoverNOT FIRE RESISTANTOutside protectionSt.steel outer wrapInternal stripwound tubeNoLiningOIL + GAS RESISTANT SOURSafety clampYesLifting collarYesElement CYes	
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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	
Outside protection     St.steel outer wrap       Internal stripwound tube     No       Lining     OIL + GAS RESISTANT SOUR       Safety clamp     Yes       Lifting collar     Yes	
Internal stripwound tube     No       Lining     OIL + GAS RESISTANT SOUR       Safety clamp     Yes       Lifting collar     Yes	
LiningOIL + GAS RESISTANT SOURSafety clampYesLifting collarYes	
Safety clamp     Yes       Lifting collar     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**

I HOIR SIZE	Casin From	g Interval To	Csg. S	ize	Weight (Ibs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17.5"	0	1190	13.37	5"	54.5	J55	STC	2.12	5.92	7.93
12.25"	0	12140	9.625	<b>n</b>	47	HCL80	втс	1.45	1.03	1.97
8.5	0	22,476	5.5"		23	P110	BTC	1.78	2.11	2.51
				BL	M 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 From	g 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. Size	Weight Grade Con		Conn	SF	SF Burst	SF
HOIG SIZE	From	То	Csy. Size	(lbs)	Graue	Conn.	Collapse	SF Buist	Tension
17.5"	0	1190	13.375"	54.5	J55	STC	2.12	5.92	7.93
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			BLN	/ Minimur	n 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

· · · · · · · · · · · · · · · · · · ·	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
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).	Y
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?	
Is 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. Ib/ gai	Yld ft3/ sack	H <sub>2</sub> 0 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	i @ 5480'				
Inter.	760	11	2.8	19	48	Lead: NeoCem			
Stage2	100	14.8	1.35	6.34	8	Tail: Class C + 2% Cacl			
E E Drod	400	12.7	2	10.6	16	Lead: 35:65:6 H Blend			
5.5 Prod	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	тос	% Excess
Surface	0'	50%
1 <sup>st</sup> Intermediate	0'	50%
Production	11,140'	35%

#### 4. Pressure Control Equipment

NI	A variance is requested for the use of a diverter on the surface casing.
Ν	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	
		5M	Blind F		Ram		
12-1/4"	13-5/8"		Pipe Ram		Х	5M	
			Double Ram		x		
			Other*				
			5M Annular Blind Ram 10M Pipe Ram Double Ram		х	5000 psi	
						1014	
8-3/4"	13-5/8"	10M			Х		
					X	10M	
			Other*				

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?
Ν	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	Time	Weight	Minnah		
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	OBM	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 t	
(What will be used to menitor the less or goin at t	PVT/Pason/Visual Monitoring
find the be deed to monitor the leep of gain of t	

#### 6. Logging and Testing Procedures

Logging, Coring and Testing.	
Y	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.
Ν	Coring? If yes, explain.

Ad	ditional logs planned	Interval				
N	Resistivity	Pilot Hole TD to ICP				
Ν	Density	Pilot Hole TD to ICP				
Y	CBL	Production casing (If cement not circulated to surface)				
Υ	Mud log	Intermediate shoe to TD				
Ν	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		Elevation	QW	۵۷۲
PPP Leg #1	330	FNL	450	FWL	24S	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	24S	35E	31	Aliquot NWN W	32.18099	- 103.4136 73	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 014164	- 921 5	173 00	125 87
PPP Leg #1	264 0	FSL	450	FWL	24S	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	- ø 103.4136 64	LEA	NEW MEXI CO	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	NEW MEXI CO	F	NMNM 132947	- 927 7	222 00	126 49
BHL Leg #1	200	FSL	450	FWL	24S	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	Is casing pre-set?

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