

Carlsbad Field Office

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

AUG 16 2018

APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM014164
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator COG OPERATING LLC (229137)		7. If Unit or CA Agreement, Name and No.
3a. Address 600 West Illinois Ave Midland TX 79701		8. Lease Name and Well No. (322259) FASCINATOR FEDERAL COM 706H
3b. Phone No. (include area code) (432)683-7443		9. API Well No. 30-025-45116
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface NWNW / 210 FNL / 330 FWL / LAT 32.19517 / LONG -103.414093 At proposed prod. zone SWSW / 200 FSL / 330 FWL / LAT 32.167275 / LONG -103.414124		10. Field and Pool, or Exploratory WILDCAT / WOLFCAMP WOLF CREEK
14. Distance in miles and direction from nearest town or post office* 12 miles		11. Sec., T. R. M. or Blk. and Survey or Area SEC 30 / T24S / R35E / NMP
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 200 feet	16. No. of acres in lease 1961.36	12. County or Parish LEA
17. Spacing Unit dedicated to this well 320	13. State NM	
18. Distance from proposed location* to nearest well, drilling, completed, 3004 feet applied for, on this lease, ft.	19. Proposed Depth 12782 feet / 22726 feet	20. BLM/BIA Bond No. on file FED: NMB000215
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3372 feet	22. Approximate date work will start* 07/01/2018	23. Estimated duration 30 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature (Electronic Submission)	Name (Printed/Typed) Mayte Reyes / Ph: (575)748-6945	Date 03/27/2018
Title Regulatory Analyst		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 08/02/2018
Title Assistant Field Manager Lands & Minerals		
Office CARLSBAD		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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)

*(Instructions on page 2)

GCP Rec 08/16/18

APPROVED WITH CONDITIONS

Approval Date: 08/02/2018

Kz
08/12/18

Double Sided

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.

NOTICES

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.

Additional Operator Remarks

Location of Well

1. SHL: NWNW / 210 FNL / 330 FWL / TWSP: 24S / RANGE: 35E / SECTION: 30 / LAT: 32.19517 / LONG: -103.414093 (TVD: 0 feet, MD: 0 feet)
PPP: NWSW / 2640 FSL / 330 FWL / TWSP: 24S / RANGE: 35E / SECTION: 30 / LAT: 32.173964 / LONG: -103.414043 (TVD: 12856 feet, MD: 19000 feet)
PPP: SWNW / 1320 FSL / 330 FWL / TWSP: 24S / RANGE: 35E / SECTION: 31 / LAT: 32.177479 / LONG: -103.41406 (TVD: 12853 feet, MD: 18800 feet)
PPP: NWNW / 0 FNL / 330 FWL / TWSP: 24S / RANGE: 35E / SECTION: 31 / LAT: 32.180993 / LONG: -103.41406 (TVD: 12837 feet, MD: 17500 feet)
PPP: NWSW / 2640 FSL / 330 FWL / TWSP: 24S / RANGE: 35E / SECTION: 30 / LAT: 32.18837 / LONG: -103.414077 (TVD: 12805 feet, MD: 14900 feet)
PPP: NWNW / 330 FNL / 330 FWL / TWSP: 24S / RANGE: 35E / SECTION: 30 / LAT: 32.194839 / LONG: -103.414094 (TVD: 12757 feet, MD: 12900 feet)
BHL: SWSW / 200 FSL / 330 FWL / TWSP: 24S / RANGE: 35E / SECTION: 31 / LAT: 32.167275 / LONG: -103.414124 (TVD: 12782 feet, MD: 22726 feet)

BLM Point of Contact

Name: Priscilla Perez

Title: Legal Instruments Examiner

Phone: 5752345934

Email: pperez@blm.gov

CONFIDENTIAL

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.

CONFIDENTIAL



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

Application Data Report

08/03/2018

APD ID: 10400028757

Submission Date: 03/27/2018

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 706H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data
relates to the most
recent changes

[Show Final Text](#)

Section 1 - General

APD ID: 10400028757

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?

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

Master 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: 706H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WILDCAT

Pool Name: WOLFCAMP

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

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 706H

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:
FASCINATOR FEDERAL COM

Number: 604H AND 706H

Well Class: HORIZONTAL

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: 3004 FT

Distance to lease line: 200 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: COG_Fascinator_706H_C102_20180327083425.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	330	FWL	24S	35E	30	Aliquot NWN W	32.19517	- 103.4140 93	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	337 2	0	0
KOP Leg #1	210	FNL	330	FWL	24S	35E	30	Aliquot NWN W	32.19517	- 103.4140 93	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	337 2	0	0
PPP Leg #1	330	FNL	330	FWL	24S	35E	30	Aliquot NWN W	32.19483 9	- 103.4140 94	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	- 938 5	129 00	127 57



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

Drilling Plan Data Report

08/03/2018

APD ID: 10400028757

Submission Date: 03/27/2018

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 706H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data
reflects the most
recent changes

Show Final Text

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	-7877	11149	11149		NATURAL GAS,OIL	No
14	BONE SPRING 3RD	-8867	12139	12139		NATURAL GAS,OIL	No
15	WOLFCAMP	-9297	12569	12569	SHALE	NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 706H

Pressure Rating (PSI): 10M

Rating Depth: 12782

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_706H_10M_Choke_20180323085606.pdf

BOP Diagram Attachment:

COG_Fascinator_706H_10M_BOP_20180323085612.pdf

COG_Fascinator_706H_Flex_Hose_20180323085629.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_706H_5M_Choke_20180323085647.pdf

BOP Diagram Attachment:

COG_Fascinator_706H_5M_BOP_20180323085652.pdf

COG_Fascinator_706H_Flex_Hose_20180323085708.pdf

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 706H

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	INTERMEDIATE	12.25	9.625	NEW	API	N	0	12140	0	12140	-9411	-21491	12140	HCL-80	47	OTHER - BTC	1.45	1.03	DRY	1.97	DRY	1.97
3	PRODUCTION	8.5	5.5	NEW	API	N	0	22726	0	22726	-9411	-29318	22726	P-110	23	OTHER - BTC	1.75	2.07	DRY	2.46	DRY	2.46

Casing Attachments

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COG_Fascinator_706H_Casing_Plan_20180323085732.pdf

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 706H

Casing Attachments

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COG_Fascinator_706H_Casing_Plan_20180323085740.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COG_Fascinator_706H_Casing_Plan_20180323085756.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	2272 6	400	2	12.7	800	35	Lead: 35:65:6 H BLEND	As needed

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 706H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		0	2272 6	2920	1.24	14.4	2620	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)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1214 0	2272 6	OIL-BASED MUD	10.5	12.5							OBM
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

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 706H

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: 8310

Anticipated Surface Pressure: 5472.21

Anticipated Bottom Hole Temperature(F): 185

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

COG_Fascinator_706H_H2S_Schem_20180323090321.pdf

COG_Fascinator_706H_H2S_SUP_20180323090328.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

COG_Fascinator_706H_AC_Rpt_20180323090341.pdf

COG_Fascinator_706H_Direct_Plan_20180323090348.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

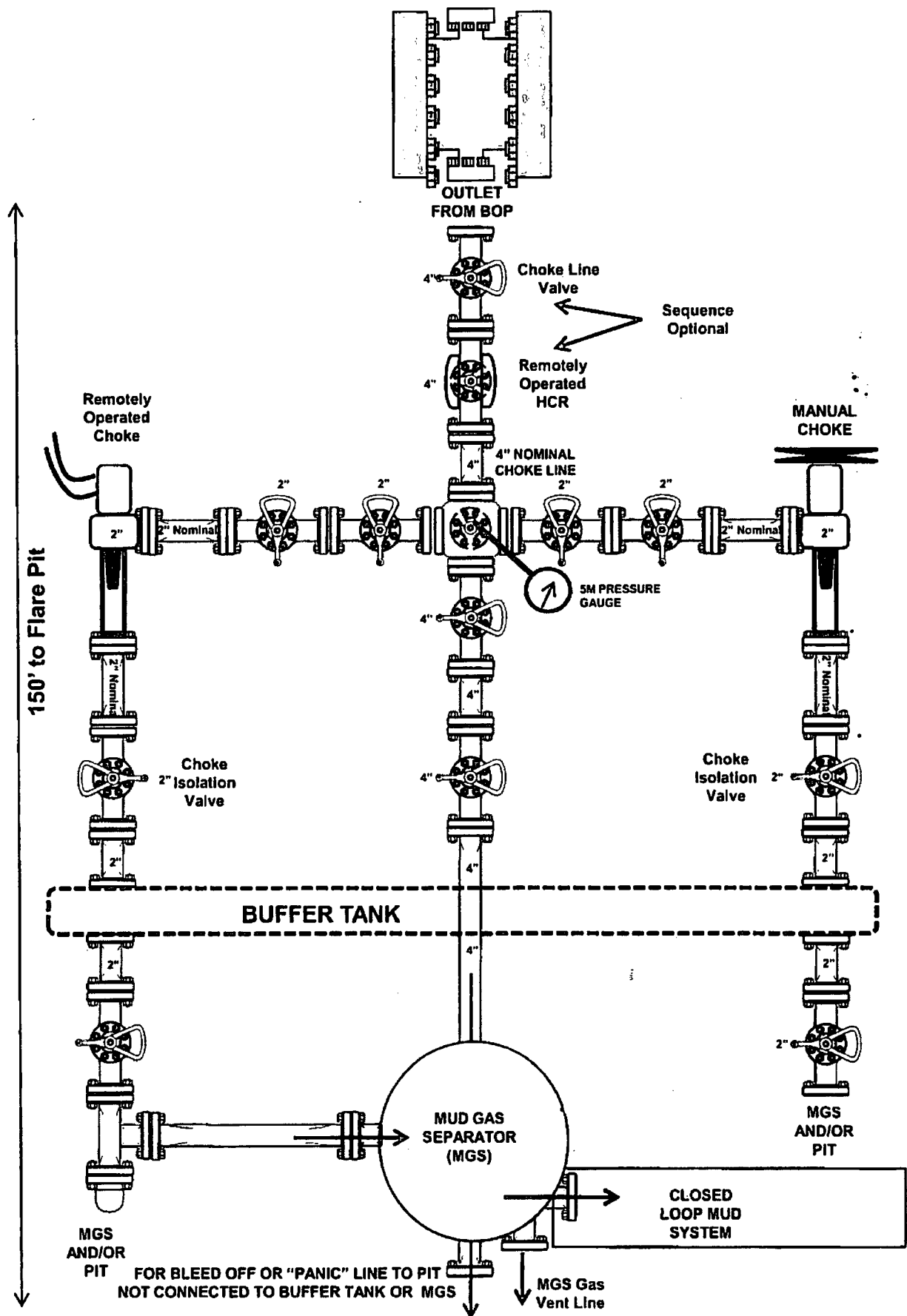
COG_Fascinator_706H_Drill_Prog_20180716084100.pdf

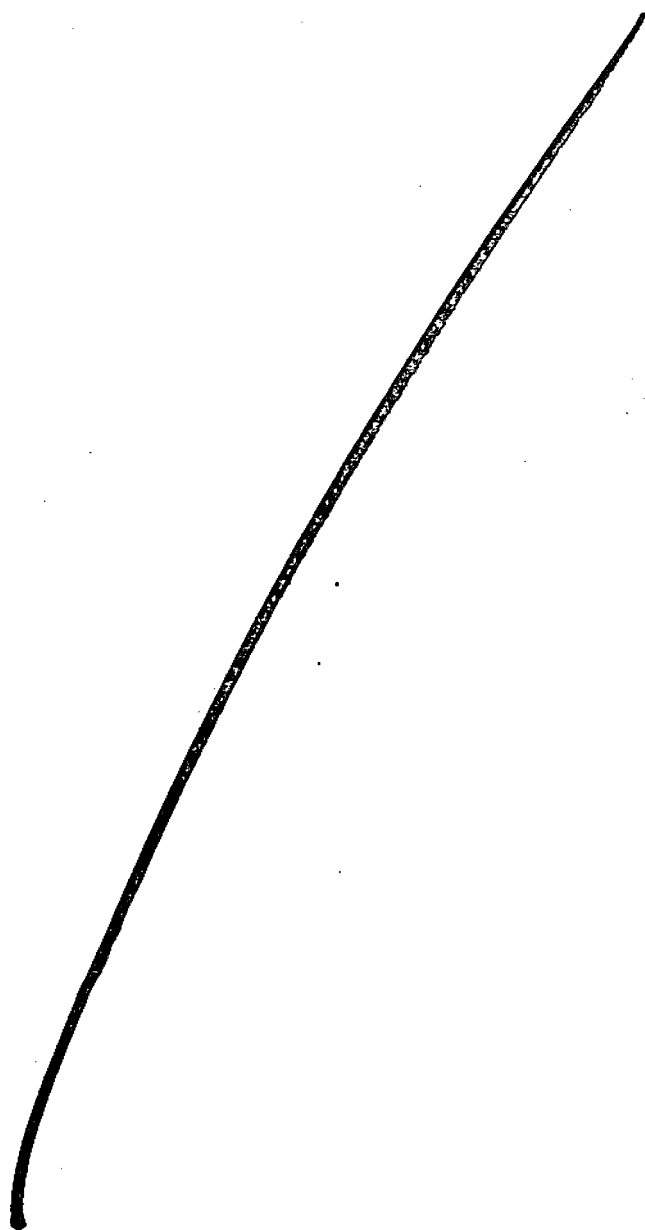
COG_Fascinator_706H_GCP_20180716084107.pdf

Other Variance attachment:

COG_5M_Annular_Variance_WCP_20180322084749.pdf

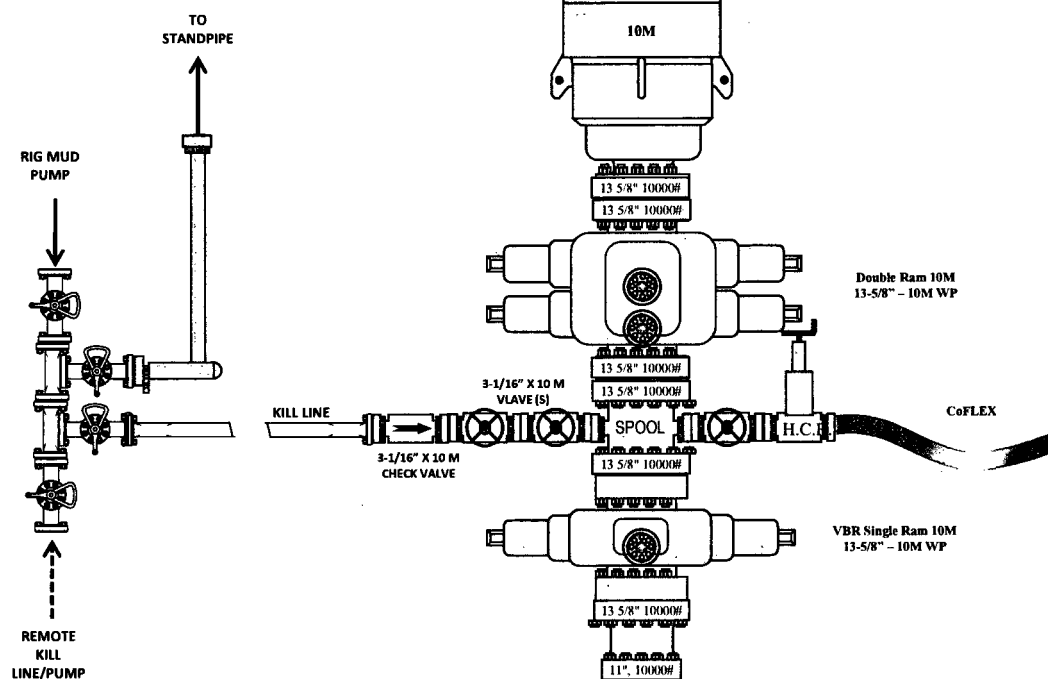
5M Choke Manifold Equipment (WITH MGS + CLOSED LOOP)



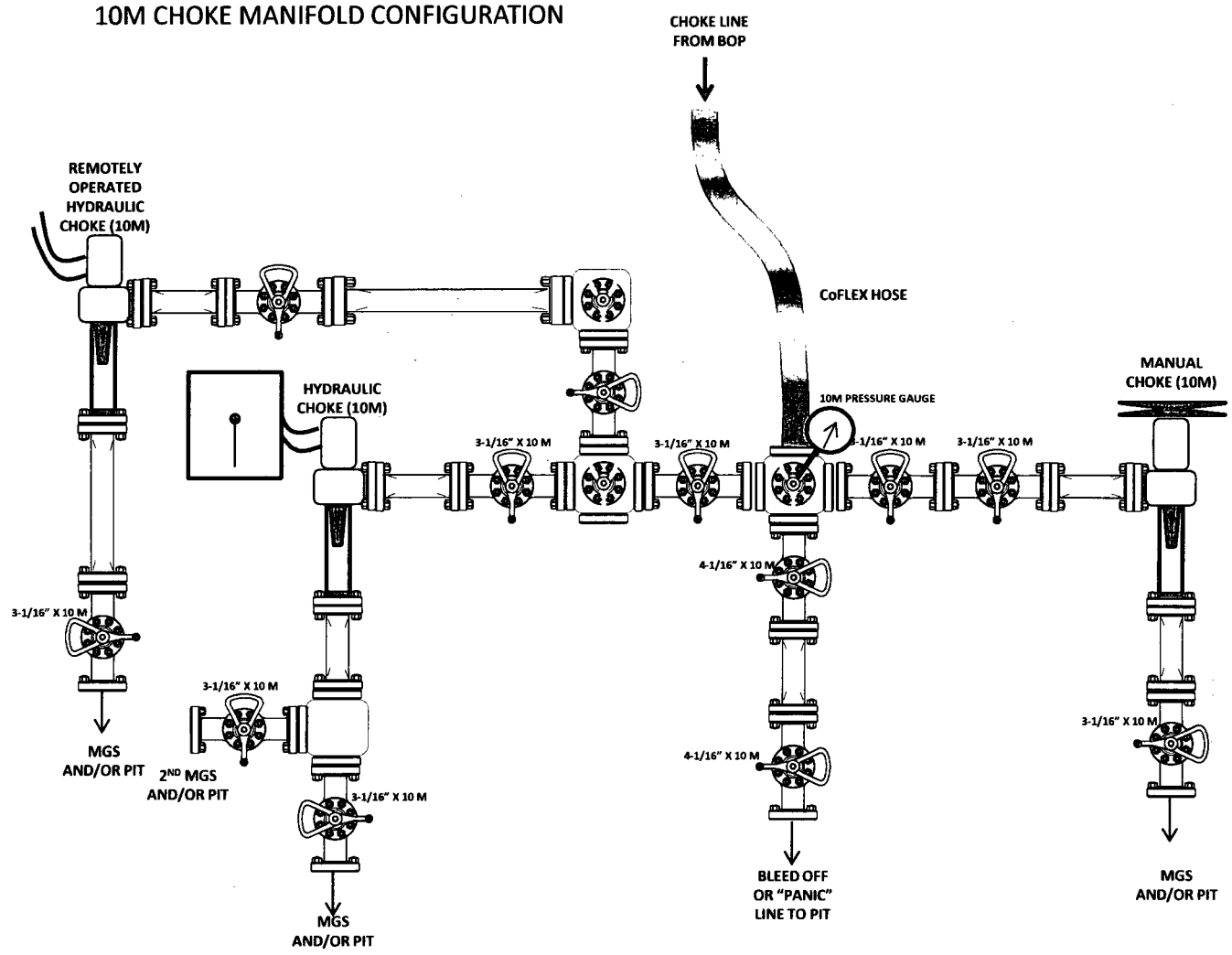


10M BOP Stack

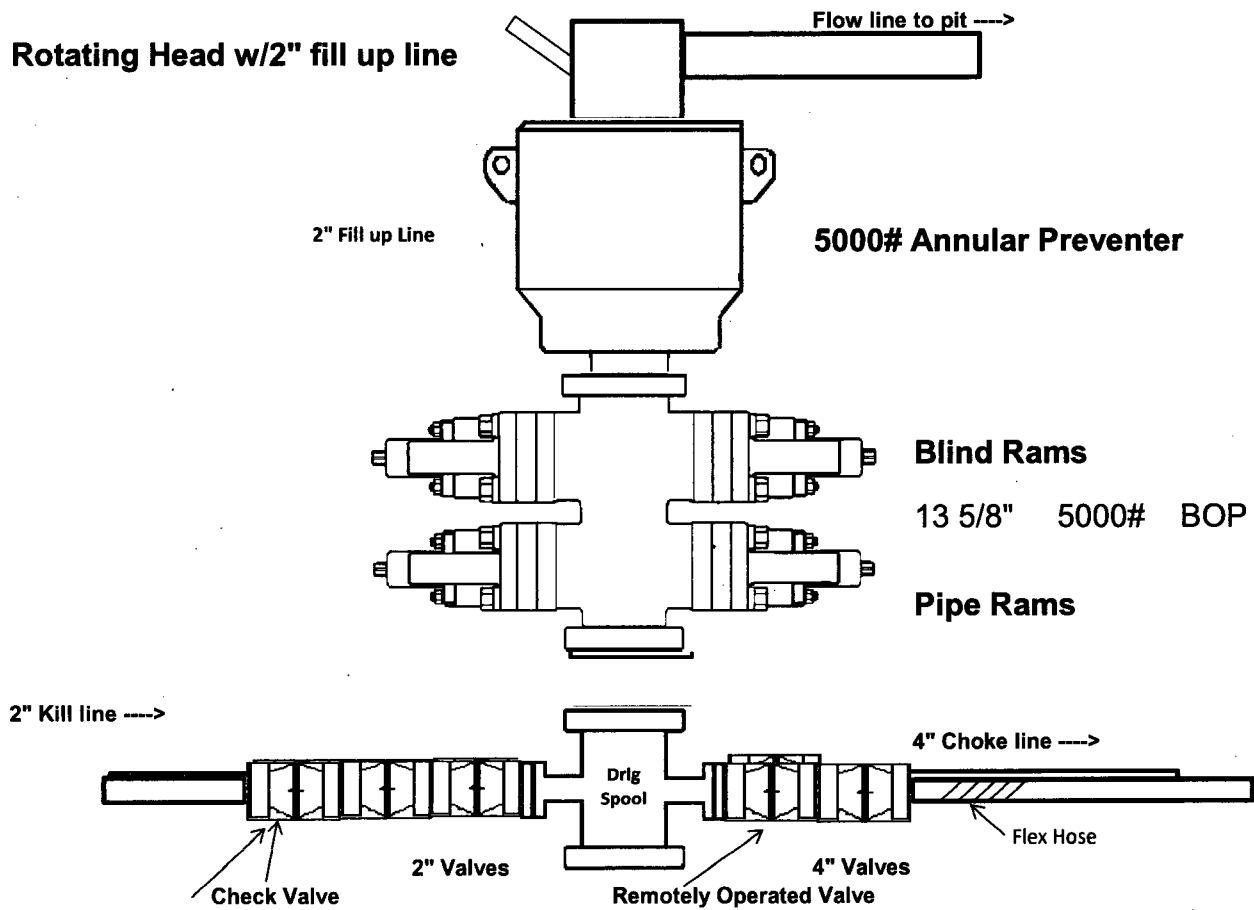
10M REMOTE KILL SCHEMATIC

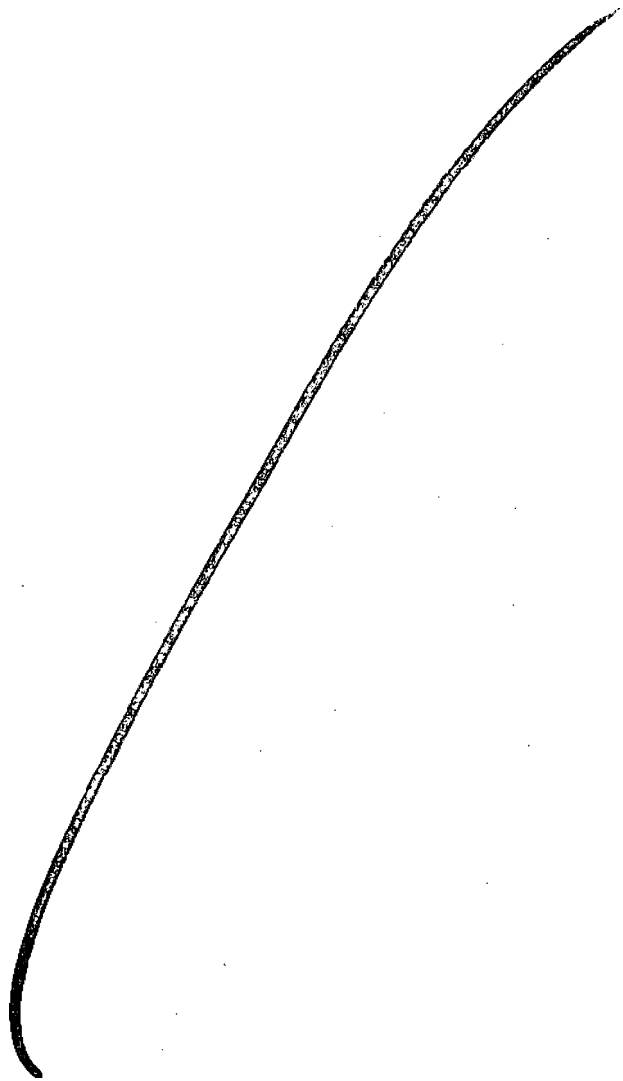


10M CHOKE MANIFOLD CONFIGURATION



5,000 psi BOP Schematic







ContiTech Fluid Technology

COPY

ContiTech Oil & Marine Corp. # 11535 Brittmoore Park Dr., Houston, TX 77041-6916 USA		Delivery Note	
NDTUSA- ODESSA 2500 W OREGON ODESSA TX 79764		Document No.	83854547
		Document Date	06/28/2017
		Customer Number	11721
		Customer VAT No.	
		Supplier Number	
Transport-Details - Shipping		N° EORI:	FR4102795330002
		Purchase Order No.	13999606
		Purchase Order Date	06/26/2017
		Sales Order Number	974000
		Sales Order Date	06/26/2017
Conditions Shipping Conditions 0 days Inco Terms EXW Houston Ex Works		Unloading Point	
		Page 1 of 2	
		Weights (Gross / Net)	
		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			

ContiTech Oil & Marine Corp.
11535 Brittmoore Park Drive
Houston, TX 77041
USAPhone: (832)-327-0141
Fax: (832)-327-0148
www.contitech-oil-gas.comManaging Director
(President)
Zuzana CzovekBank: Wells Fargo Bank, N.A.,
420 Montgomery Street, San Francisco, CA 94103
Account #: 4942692284
ABA/Routing #: 121000248, SWIFT #: WFBUS6S



ContiTech Fluid Technology

Conditions Shipping Conditions 0 days Inco Terms EXW Houston Ex Works		Delivery Note Document No. 83854547 Document Date 06/28/2017 Page 2 of 2	
<p>Repair of any external damage to hose body and end connections (limited to minor repairs) Clean & protect end connections Inspection Report</p> <p>Disposal of hose assembly if hose fails inspection and recertification process</p> <p>Please Flush Hoses before sending them to our Facility.</p> <p>Buyer: Andras Kruppa E-mail: Andras.Kruppa@nabors.com</p> <p>PR#14438486</p> <p>Rig: X31</p>			
Inner packages			
Quantity Packaging		Material	Charge
1	420"X15"X15" -Loose	OORECERTIFY	1
Package number 123198224			

Hydrostatic Test Certificate



ContiTech

Certificate Number 4000	COM Order Reference 974000	Customer Name & Address Nabors Lux Finance 2 S.a.r.L. 8-10 Avenue de la Gare L-1610 LUXEMBOURG
Customer Purchase Order No: 13999606		
Project:		
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Date: 8/27/19	Accepted by Client/Inspection

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.

Item	Description	Qty	Serial Number	Test Pressure	Test Media	Test Time (minutes)
------	-------------	-----	---------------	---------------	------------	---------------------

20	RECERTIFICATION - 3" ID 10K Chpke & Kill Hose x 35 ft OAL	1	62205	10,000 psi	15,000 psi	60
Assesst # 66-0945						

Certificate of Conformity



ContiTech

Certificate Number 4000	COM Order Reference 974000	Customer Name & Address Nabors Lux Finance 2 S.a.r.L. 8-10 Avenue de la Gare L-1610 LUXEMBOURG
Customer Purchase Order No: 13999606		
Project:		
ContiTech Address ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Accepted by ContiTech Signed: Roger Suarez Date: 6/27/17	Accepted by Customer

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.

Item	Quantity	Description	Unit	Specification	Specification
------	----------	-------------	------	---------------	---------------

20

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

1

62205

ContiTech Standard

Asset # 66-0945

62205 (66-0945)
6 AM 7

JOB# 5750000000000000
PBC# 2750000000000000
TEST DESCRIPTION: 3100000000000000
CHART PRESSURE: 1000000000000000
CHART RECORDER: 1000000000000000
CHART SETTING: 1000000000000000
GBC REPRESENTATIVE: 1000000000000000
DATE: 2-27-72

Graphic Controls

CHART NO. MC MP-20000-150F

METER

CHART PUT ON

TAKEN OFF

LOCATION

REMARKS

MIDNIGHT

NOON

6 PM

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 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: 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-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

(1) Ship-to party NDTUSA- ODESSA 2500 W OREGON ODESSA TX 79764		(2) Unloading point - storage location - usage	
(3) Delivery note no. 83854547 		(4) Vendor address (short name, plant, ZIP, city) ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston TX 77041-6916	
(8) Supplier ref. no. 00RECERTIFY 			
(9) Quantity 1 		(5) Net weight 1,700 LB	(6) Gross weight 1,700 LB
		(7) Number of packages 1	
(12) ContiTech Sales order no. 974000 		(10) Description of delivery, service Recertification of HP Hoses Se	
		(13) Packing date 06/28/17	(14) Engineering change status
(15) Package no. 123198224 		(16) Customer PO no. 13999606 	

Material label VDA 4902 Vers. 4

66-0945

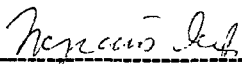
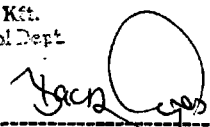
62205



ContiTech

CONTITECH RUBBER
Industrial Kft.

No: QC-DB- 298 / 2017
Page: 8 / 119

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 682	
PURCHASER: ContiTech Oil & Marine Corp.				P.O. N°: 4500984922	
CONTITECH RUBBER order N°: 987778		HOSE TYPE: 3" ID Choke and Kill Hose			
HOSE SERIAL N°: 73981		NOMINAL / ACTUAL LENGTH: 13,72 m / 13,80 m			
W.P. 69,0 MPa 10000 psi		T.P. 103,5 MPa 15000 psi		Duration: 60 min.	
Pressure test with water at ambient temperature					
See attachment (1 page)					
COUPLINGS Type		Serial N°		Quality	
3" coupling with		8077 8083		AISI 4130	
4 1/16" 10K API Swivel Flange end				AISI 4130	
Hub				AISI 4130	
				037184 85913	
				A0939Y	
Not Designed For Well Testing					
API Spec 16 C 2 nd Edition- FSL2					
TAG NO.: 66-1486					
Temperature rate: "B"					
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, 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		Quality Control	
03. October 2017.				ContiTech Rubber Industrial Kft. Quality Control Dept.  	

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

CONTITECH RUBBER
Industrial Kft.

No: QC-DB- 298 / 2017

Page: 9 / 119

1/1

File Name : 020572_73980.73981.GEV.....020583_73980.73981.GEV

File Message

Device Type

Serial No.

Data Count

Print Group

Print Range

Comment

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: GX10

: SSP606399

: 1386

: Press-Temp

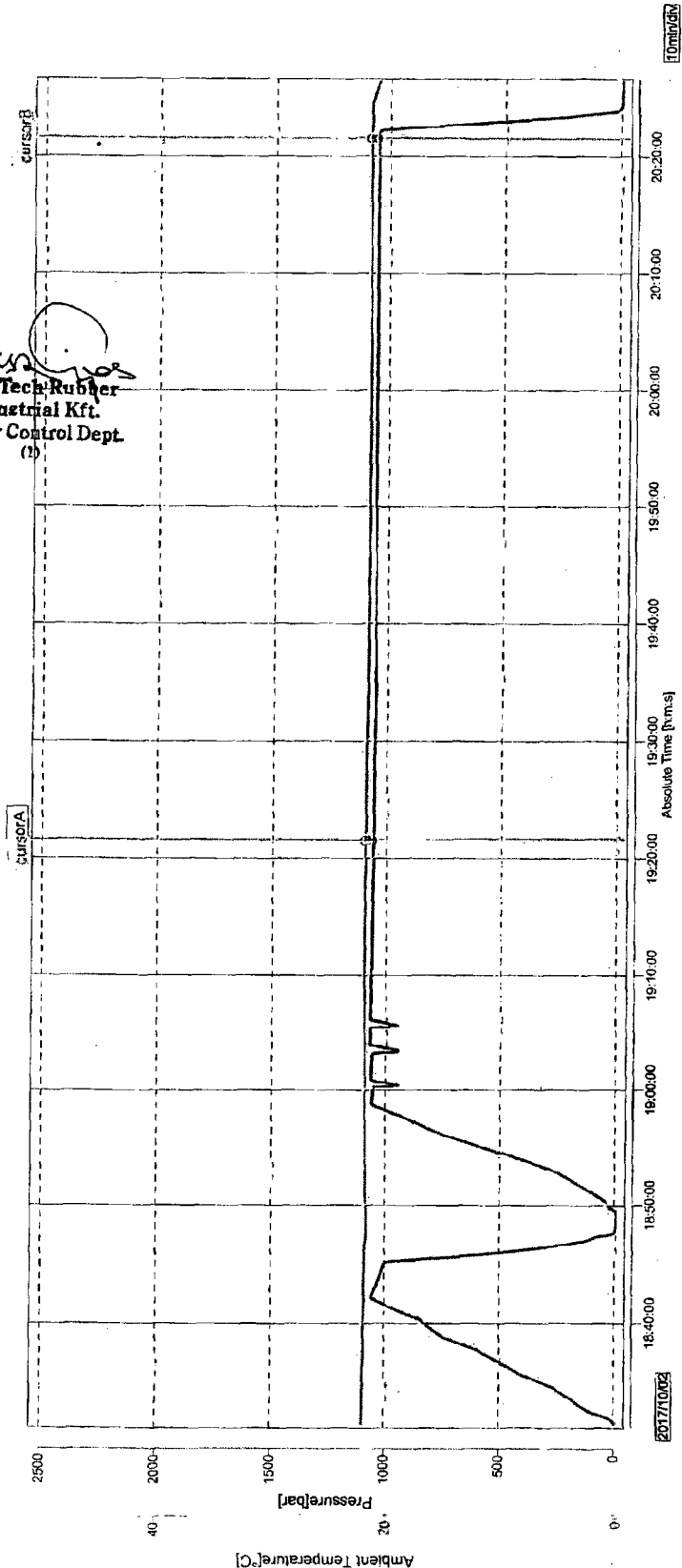
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Start Time : 2017/10/02 18:31:10.000
Stop Time : 2017/10/02 20:26:35.000

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Absolute Time	Value A	Value B	Value B-A
Tag Comment	1064.15	1055.97	-8.18
Pressure[bar]	21.93	21.73	-0.20
Ambient Temperature[°C]			

Signature
ContiTech Rubber
Industrial Kft.
Quality Control Dept.
(1)





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



ContiTech Fluid Technology

COPY

ContiTech Oil & Marine Corp. # 11535 Brittmoore Park Dr., Houston, TX 77041-6916 USA		Delivery Note	
NDTUSA- ODESSA 2500 W OREGON ODESSA TX 79764		Document No.	83854547
		Document Date	06/28/2017
Transport-Details - Shipping		Customer Number	11721
		Customer VAT No.	
Conditions Shipping Conditions 0 days Inco Terms EXW Houston Ex Works		Supplier Number	
		N° EORI:	FR4102795330002
		Purchase Order No.	13999606
		Purchase Order Date	06/26/2017
		Sales Order Number	974000
		Sales Order Date	06/26/2017
		Unloading Point	
		Page 1 of 2	
		Weights (Gross / Net)	
		Total Weight	1,700.000 LB
		Net Weight	1,700.000 LB
 <i>Buyer: Andras Kruppa</i> <i>E-mail: Andras.Kruppa@nabors.com</i> <i>PR#14438486</i> <i>Rig: X31</i>			
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 # <u>66-0945</u>		
	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
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 94103
Account #: 4942692294
ABA/Routing #: 121000248, SWIFT #: WFBUS65



ContiTech Fluid Technology

Conditions Shipping Conditions 0 days Inco Terms EXW Houston Ex Works		Delivery Note Document No. 83854547 Document Date 06/28/2017 Page 2 of 2	
<p>Repair of any external damage to hose body and end connections (limited to minor repairs) Clean & protect end connections Inspection Report</p> <p>Disposal of hose assembly if hose fails inspection and recertification process</p> <p>Please Flush Hoses before sending them to our Facility.</p> <p>Buyer: Andras Kruppa E-mail: Andras.Kruppa@nabors.com</p> <p>PR#14438486</p> <p>Rig: X31</p>			
Inner packages			
Quantity Packaging		Material	Charge
1	420"X15"X15" -Loose	OORECERTIFY	1
Package number	123198224		



Hydrostatic Test Certificate

ContiTech

Certificate Number 4000	COM Order Reference 974000	Customer Name & Address Nabors Lux Finance 2 S.a.r.L. 8-10 Avenue de la Gare L-1610 LUXEMBOURG
Customer Purchase Order No: 13999606		
Project:		
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Roger Suarez Date: 6/27/17	

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.

Item	Description	Qty	Serial Number	Work Item	Test Item	Inspector
------	-------------	-----	---------------	-----------	-----------	-----------

20

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

1

62205

10,000 psi

15,000 psi

60

Assess # 66-0945

Certificate of Conformity



ContiTech

Certificate Number 4000		COM Order Reference 974000	Customer Name/Address Nabors Lux Finance 2 S.a.r.L. 8-10 Avenue de la Gare L-1610 LUXEMBOURG
Customer Purchase Order No: 13999606			
Project:			
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA		Signed: Roger Suarez Date: 6/27/17	

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.

Item	Part Number	Description	Qty	Material	Inspection
------	-------------	-------------	-----	----------	------------

20

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

1

62205

ContiTech Standard

Assest # 66-0945

62205 (66-0945)
6 AM 7

JOB# 8720000000
PBC# 247000
HOSE DESCRIPTION: 3/4" x 100' (Hose-Miller 30)
TEST PRESSURE: 75-0000
CHART RECORDER #103400-000000
CHART SETTING: 75-0000
GBC REPRESENTATIVE: J. J. Jones
DATE: 8-27-73



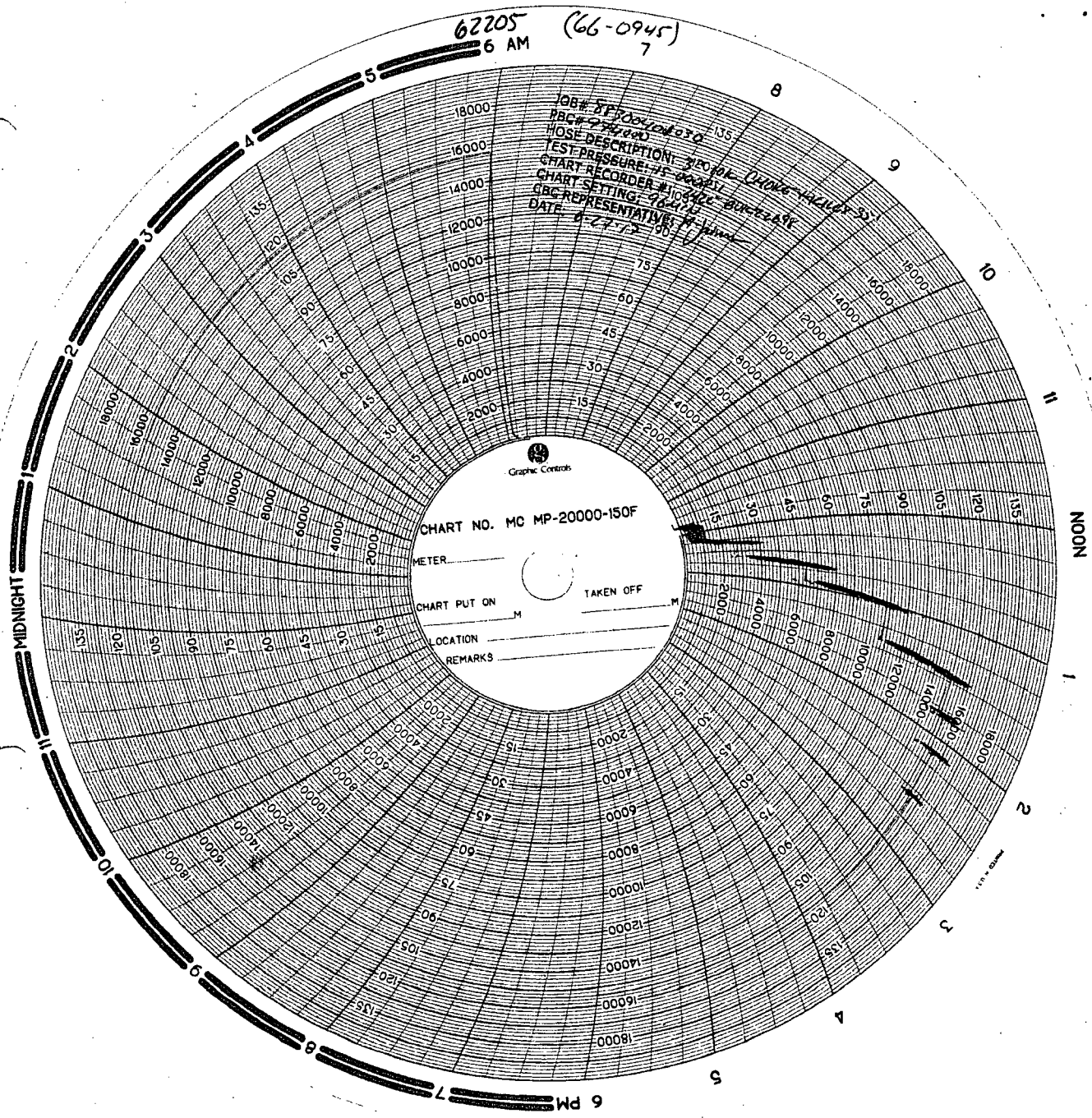
CHART NO. MC MP-20000-150F

METER _____

CHART PUT ON _____ M TAKEN OFF _____ M

LOCATION _____

REMARKS _____



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 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: 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-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.





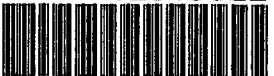

External Damage Pre – Hydro test
End A has minor dents at the edge of the seal face but did not compromise the hydrostatic pressure test. Additional care should be take in order to avoid further damage



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

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

Page 1 of 1
 QF97

(1) Ship-to party NDTUSA- ODESSA 2500 W OREGON ODESSA TX 79764		(2) Unloading point - storage location - usage	
(3) Delivery note no. 83854547 		(4) Vendor address (short name, plant, ZIP, city) ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston TX 77041-6916	
(8) Supplier ref. no. 00RECERTIFY 			
(9) Quantity 1 		(5) Net weight 1,700 LB	(6) Gross weight 1,700 LB
		(7) Number of packages 1	
(12) ContiTech Sales order no. 974000 		(10) Description of delivery, service Recertification of HP Hoses Se	
		(13) Packing date 06/28/17	(14) Engineering change status
(15) Package no. 123198224 		(16) Customer PO no. 13999606 	

Material label VDA 4902 Vers. 4

66-0945

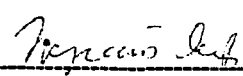
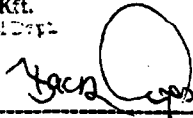
62205



ContiTech

CONTITECH RUBBER
Industrial Kft.

No: QC-DB- 298 / 2017
Page: 8 / 119

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 682	
PURCHASER: ContiTech Oil & Marine Corp.				P.O. N°: 4500984922	
CONTITECH RUBBER order N°: 987778		HOSE TYPE: 3" ID Choke and Kill Hose			
HOSE SERIAL N°: 73981		NOMINAL / ACTUAL LENGTH: 13,72 m / 13,80 m			
W.P. 69,0 MPa 10000 psi		T.P. 103,5 MPa 15000 psi		Duration: 60 min.	
Pressure test with water at ambient temperature					
See attachment (1 page)					
COUPLINGS Type		Serial N°		Quality	
3" coupling with		8077 8083		AISI 4130	
4 1/16" 10K API Swivel Flange end				AISI 4130	
Hub				AISI 4130	
				Heat N°	
				A0939Y	
				037184 85913	
				A0939Y	
Not Designed For Well Testing				API Spec 16 C 2 nd Edition– FSL2	
TAG NO.: 66-1486				Temperature rate: "B"	
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, 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		Quality Control	
03. October 2017.				ContiTech Rubber Industrial Kft. Quality Control Dept.  	

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

CONTITECH RUBBER
Industrial Kft.

No: QC-DB- 298 / 2017

Page: 9 / 119

1/1

5,000 sec
: 2017/10/02 18:31:10.000
: 2017/10/02 20:26:35.000

Sampling Int.
Start Time
Stop Time

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73980,73981

GX10

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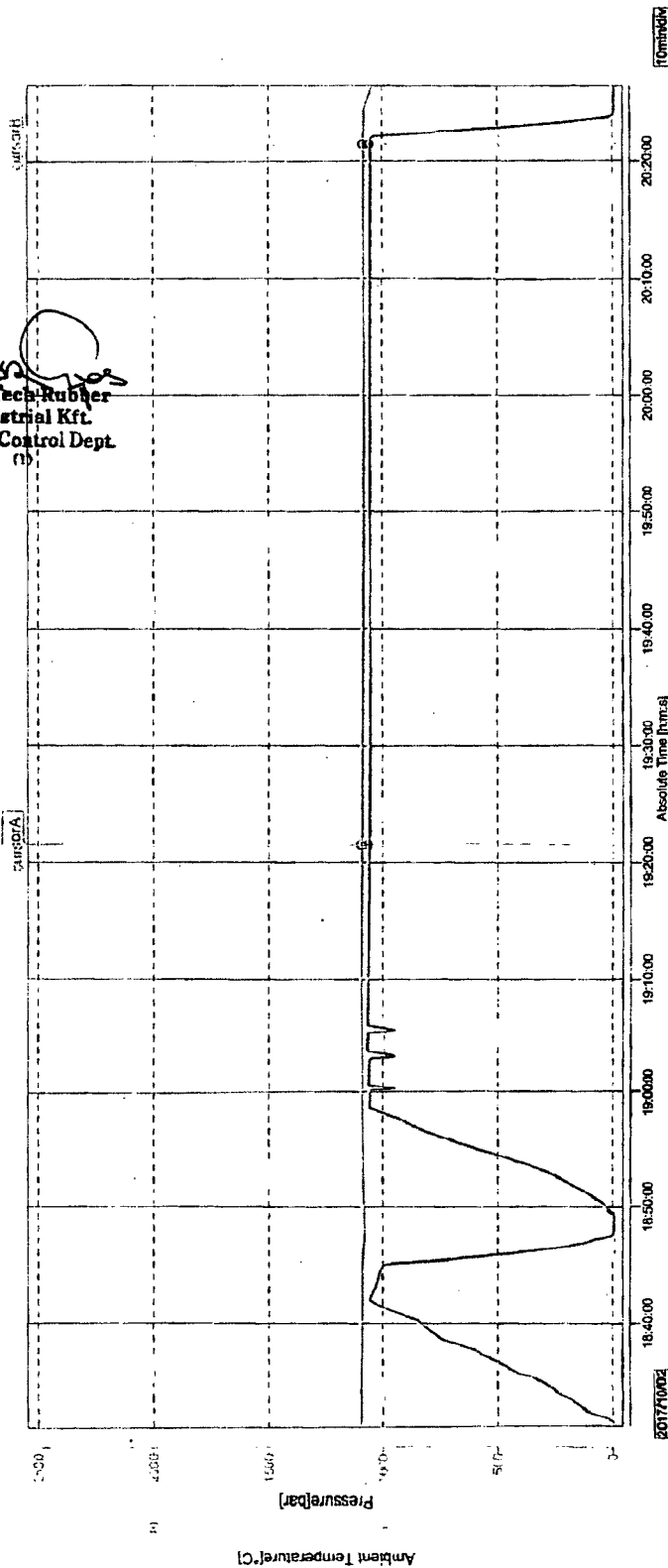
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File Message
Device Type
Serial No.
Data Count

Print Group
Print Range
Comment

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Tag Comment	Value A	Value B	Value B-A
Pressure[bar]	1064.15	1055.97	-8.18
Ambient Temperature[°C]	21.93	21.73	-0.20

[Signature]
ContiTech Rubber
Industrial Kft.
Quality Control Dept.





CONTITECH RUBBER
Industrial Kft.

No: QC-DB- 298 / 2017

Page: 21 / 119

ContiTech

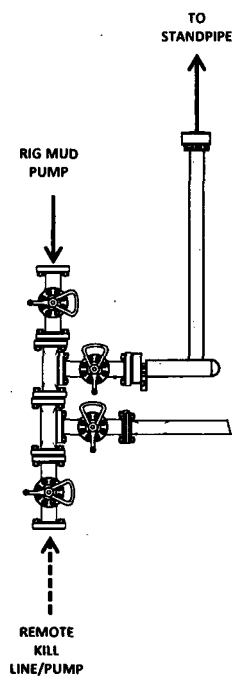
Hose Data Sheet

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

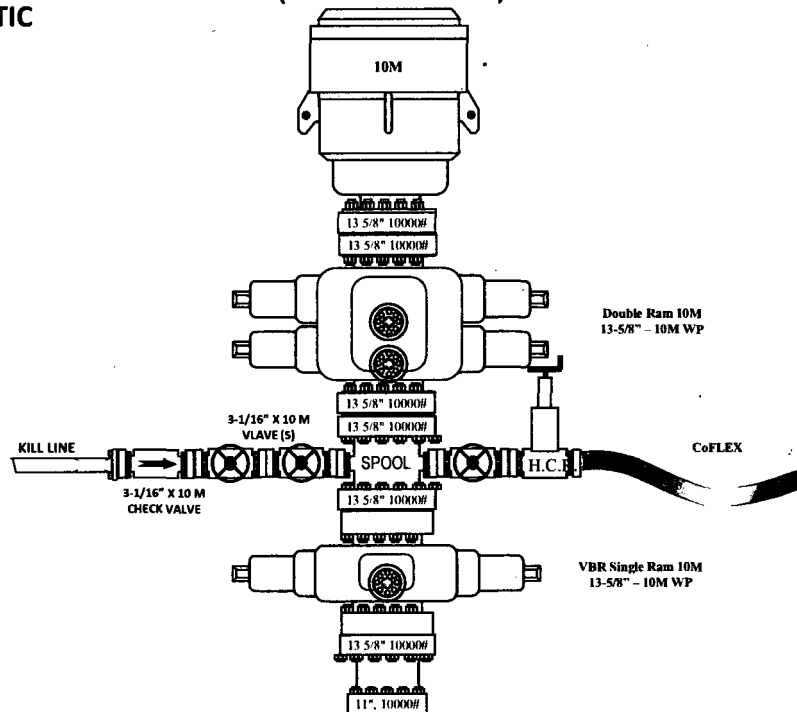

ContiTech Rubber
Industrial Kft.
QC2

10M BOP Stack

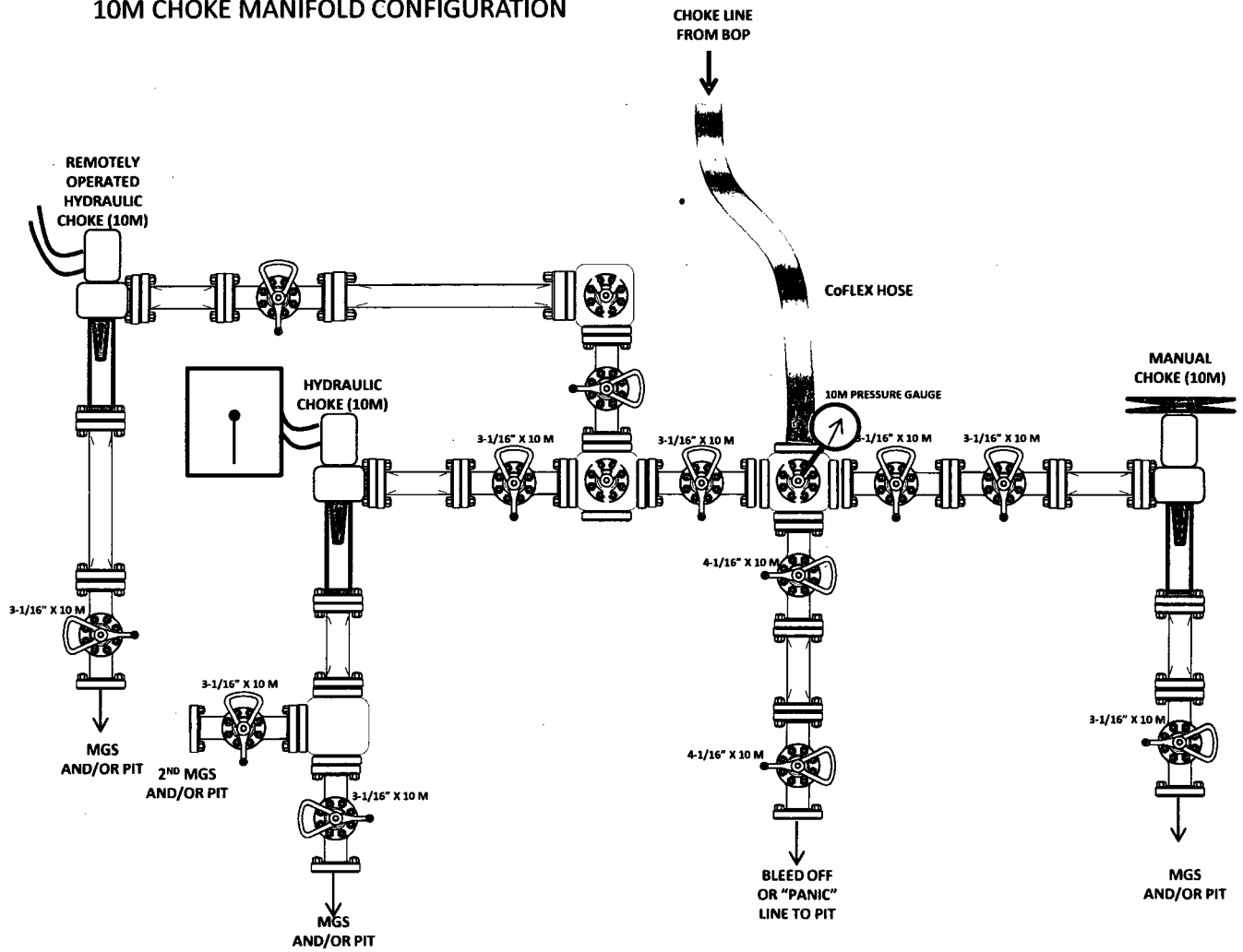
10M REMOTE KILL SCHEMATIC



10M BOP Stack (10M Annular)



10M CHOKE MANIFOLD CONFIGURATION





ContiTech Fluid Technology

COPY

ContiTech Oil & Marine Corp. # 11535 Brittmoore Park Dr., Houston, TX 77041-8918 USA		Delivery Note	
NDTUSA- ODESSA 2500 W OREGON ODESSA TX 79764		Document No.	83854547
		Document Date	06/28/2017
		Customer Number	11721
Transport-Details - Shipping		Customer VAT No.	
		Supplier Number	
		N° EORI:	FR4102795330002
		Purchase Order No.	13999606
		Purchase Order Date	06/26/2017
Conditions Shipping Conditions 0 days Inco Terms EXW Houston Ex Works		Sales Order Number	974000
		Sales Order Date	06/26/2017
		Unloading Point	
		Page 1 of 2	
		Weights (Gross / Net)	
		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			

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 #: 4942892294
ABA/Routing #: 121000248, SWIFT #: WFBUS6S



Conditions Shipping Conditions 0 days Inco Terms EXW Houston Ex Works		Delivery Note Document No. 83854547 Document Date 06/28/2017 Page 2 of 2	
<p>Repair of any external damage to hose body and end connections (limited to minor repairs) Clean & protect end connections Inspection Report</p> <p>Disposal of hose assembly if hose fails inspection and recertification process</p> <p>Please Flush Hoses before sending them to our Facility.</p> <p>Buyer: Andras Kruppa E-mail: Andras.Kruppa@nabors.com</p> <p>PR#14438486</p> <p>Rig: X31</p>			
Inner packages			
Quantity Packaging		Material	Charge
1	420"X15"X15" -Loose	OORECERTIFY	1
Package number 123198224			

Hydrostatic Test Certificate



ContiTech

Certificate Number 4000	COM Order Reference 974000	Customer Name & Address Nabors Lux Finance 2 S.a.r.L. 8-10 Avenue de la Gare L-1610 LUXEMBOURG
Customer Purchase Order No: 13999606		
Project:		
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Roger Suarez Date: 6/27/19	Accepted by Client Inspection

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.

ITEM	DESCRIPTION	QTY	TEST PRESSURE	TEST PRESSURE	TEST TIME (minutes)
------	-------------	-----	---------------	---------------	---------------------

20	RECERTIFICATION - 3" ID 10K Choke & Kill Hose x 35 ft OAL	1	62205	10,000 psi	15,000 psi	60
Asset # 66-0945						

Certificate of Conformity



ContiTech

Certificate Number 4000		COM Order Reference 974000	Customer Name Nabors Lux Finance 2 S.a.r.L. 8-10 Avenue de la Gare L-1610 LUXEMBOURG	
Customer Purchase Order No: 13999606				
Project:				
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA		Signed: Date: 6/27/13	Accepted by (ContiTech) Roger Suarez	

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.

Item	Description	Quantity	Standard
------	-------------	----------	----------

20

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

1

62205

ContiTech Standard

Assesst # 66-0945

62205 (66-0945)
6 AM 7

JOB# 2500000000 135
PBC# 2500000000 135
HOSE DESCRIPTION: 250 (1000-1000-55)
TEST PRESSURE: 250
CHART RECORDER: MC MP-20000-150F
CHART SETTING: 25000
GAC REPRESENTATIVE: J. J. J.
DATE: 6-27-77

Graphic Controls

CHART NO. MC MP-20000-150F

METER _____

CHART PUT ON _____ TAKEN OFF _____

LOCATION _____

REMARKS _____

MIDNIGHT

NOON

6 PM

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 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: BX155
Length Before Hydro Test: 35'	Length After Hydro test: 35'

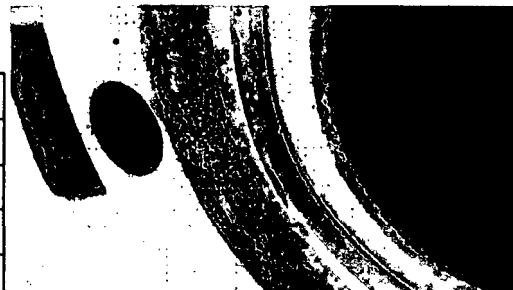
Conclusion: Hose #62205 passed the external inspection with no notable damage to the hose armor. The flange face on end A did have minor dents but did not affect the test outcome. It is advised that additional care be taken in order to avoid further damage to the flange face. Internal borescope of the 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-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

(1) Ship-to party NDTUSA- ODESSA 2500 W OREGON ODESSA TX 79764		(2) Unloading point - storage location - usage	
(3) Delivery note no. 83854547 		(4) Vendor address (short name, plant, ZIP, city) ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston TX 77041-6916	
(8) Supplier ref. no. 00RECERTIFY 			
(9) Quantity 1 		(5) Net weight 1,700 LB	(6) Gross weight 1,700 LB
		(7) Number of packages 1	
		(10) Description of delivery, service Recertification of HP Hoses Se	
(12) ContiTech Sales order no. 974000 		(13) Packing date 06/28/17	(14) Engineering change status
(15) Package no. 123198224 		(16) Customer PO no. 13999606 	

Material label VDA 4902 Vers. 4

66-0945

62205

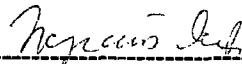
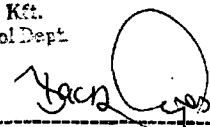


ContiTech

CONTITECH RUBBER
Industrial Kft.

No: QC-DB- 298 / 2017

Page: 8 / 119

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 682	
PURCHASER: ContiTech Oil & Marine Corp.				P.O. N°: 4500984922	
CONTITECH RUBBER order N°: 987778		HOSE TYPE: 3" ID Choke and Kill Hose			
HOSE SERIAL N°: 73981		NOMINAL / ACTUAL LENGTH: 13,72 m / 13,80 m			
W.P. 69,0 MPa 10000 psi		T.P. 103,5 MPa 15000 psi		Duration: 60 min.	
Pressure test with water at ambient temperature					
See attachment (1 page)					
COUPLINGS Type		Serial N°		Quality	
3" coupling with		8077 8083		AISI 4130	
4 1/16" 10K API Swivel Flange end				AISI 4130	
Hub				AISI 4130	
				037184 85913	
				A0939Y	
Not Designed For Well Testing					
API Spec 16 C 2 nd Edition– FSL2					
TAG NO.: 66-1486					
Temperature rate: "B"					
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, 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		Quality Control	
03. October 2017.				ContiTech Rubber Industrial Kft. Quality Control Dept.	
				 	

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

CONTITECH RUBBER
Industrial Kft.

No: QC-DB- 298 / 2017

Page: 9 / 119

1/1

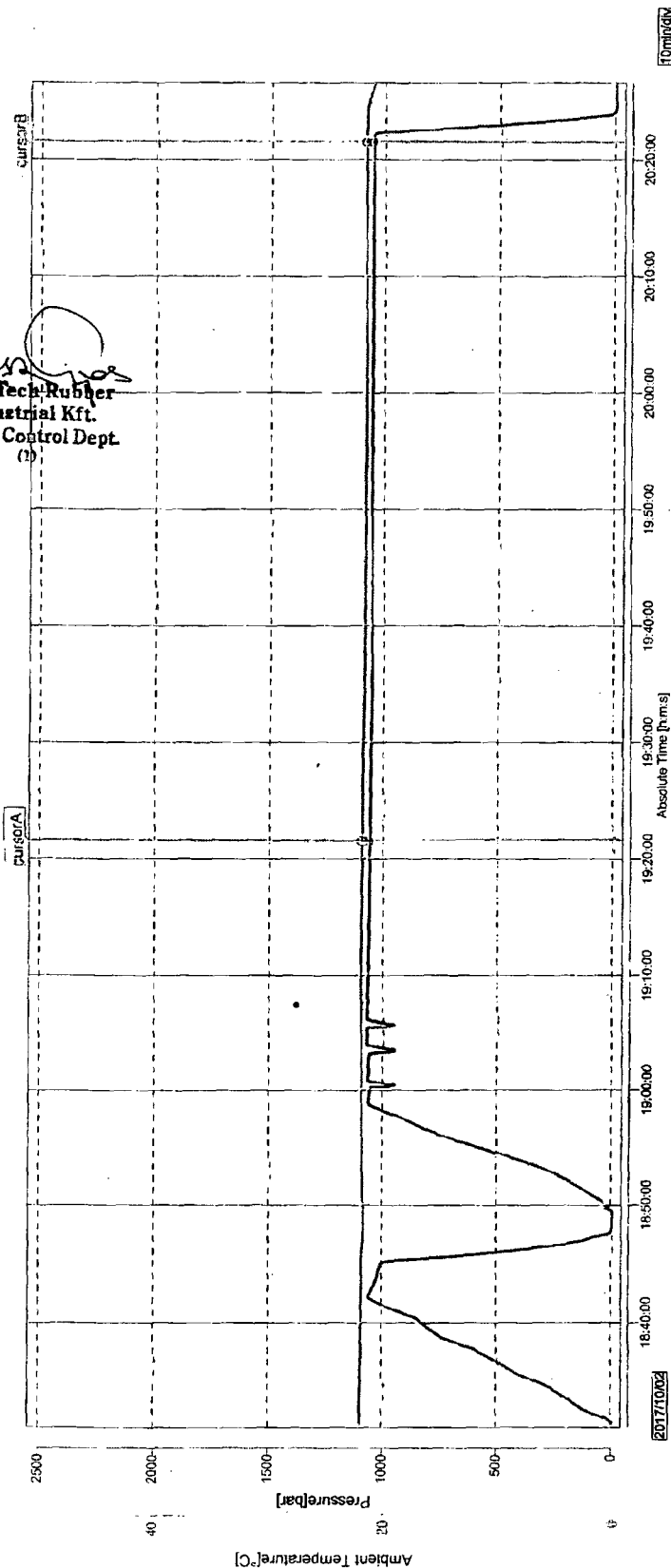
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File Message : 73980_73981
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Serial No. : SSP606399
Data Count : 1386

Print Group :
Print Range :
Comment :
Press-Temp : 2017/10/02 18:31:10.000 - 2017/10/02 20:26:35.000
142056635

Sampling Int. : 5.000 sec
Start Time : 2017/10/02 18:31:10.000
Stop Time : 2017/10/02 20:26:35.000

Data No.	Cursor A	Cursor B	Difference
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Absolute Time	2017/10/02 19:21:30.000	2017/10/02 20:21:30.000	01:00:00.000
Tag Comment	Value A	Value B	Value B-A
Pressure[bar]	1064.15	1055.97	-8.18
Ambient Temperature[°C]	21.93	21.73	-0.20

Signature
ContiTech Rubber
Industrial Kft.
Quality Control Dept.
(2)





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



ContiTech Fluid Technology

COPY

ContiTech Oil & Marine Corp. # 11535 Brittmoore Park Dr., Houston, TX 77041-6916 USA		Delivery Note	
NDTUSA- ODESSA 2500 W OREGON ODESSA TX 79764		Document No.	83854547
		Document Date	06/28/2017
		Customer Number	11721
Transport-Details - Shipping		Customer VAT No.	
		Supplier Number	
		N° EORI:	FR4102795330002
		Purchase Order No.	13999606
Conditions Shipping Conditions 0 days Inco Terms EXW Houston Ex Works		Purchase Order Date	06/26/2017
		Sales Order Number	974000
		Sales Order Date	06/26/2017
		Unloading Point	
		Page 1 of 2	
		Weights (Gross / Net)	
		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			

ContiTech Oil & Marine Corp.
11535 Brittmoore Park Drive
Houston, TX 77041
USAPhone: (832)-327-0141
Fax: (832)-327-0148
www.contitech-oil-gas.comManaging Director
(President)
Zuzana CzovakBank: Wells Fargo Bank, N.A.,
420 Montgomery Street, San Francisco, CA 94103
Account #: 4942692294
ABA/Routing #: 121000248, SWIFT #: WFBUI56S



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	
<p>Repair of any external damage to hose body and end connections (limited to minor repairs) Clean & protect end connections Inspection Report</p> <p>Disposal of hose assembly if hose fails inspection and recertification process</p> <p>Please Flush Hoses before sending them to our Facility.</p> <p>Buyer: Andras Kruppa E-mail: Andras.Kruppa@nabors.com</p> <p>PR#14438486</p> <p>Rig: X31</p>					
Inner packages					
Quantity Packaging		Material		Charge	
1 420"X15"X15" -Loose		OORECERTIFY		1	
Package number 123198224					



Hydrostatic Test Certificate

ContiTech

Certificate Number 4000	COM Order Reference 974000	Customer Name & Address Nabors Lux Finance 2 S.a.r.L. 8-10 Avenue de la Gare L-1610 LUXEMBOURG
Customer Purchase Order No: 13999606		
Project:		
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Roger Suarez Date: 6/2/17	

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.

Item	Part No	Description	Qty	Serial Number	Test Pressure	Test Temp	Test Date	Tested By
------	---------	-------------	-----	---------------	---------------	-----------	-----------	-----------

20

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

1

62205

10,000 psi

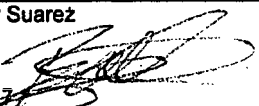
15,000 psi

60

Assess # 66-0945

Certificate of Conformity

ContiTech

Certificate Number 4000	COM Order Reference 974000	Customer Name/Address Nabors Lux Finance 2 S.a.r.L. 8-10 Avenue de la Gare L-1610 LUXEMBOURG
Customer Purchase Order No: 13999606		
Project:		
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed:  Date: 6/27/17	

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.

Item	Description	Quantity	Part Number	Specifications
------	-------------	----------	-------------	----------------

20

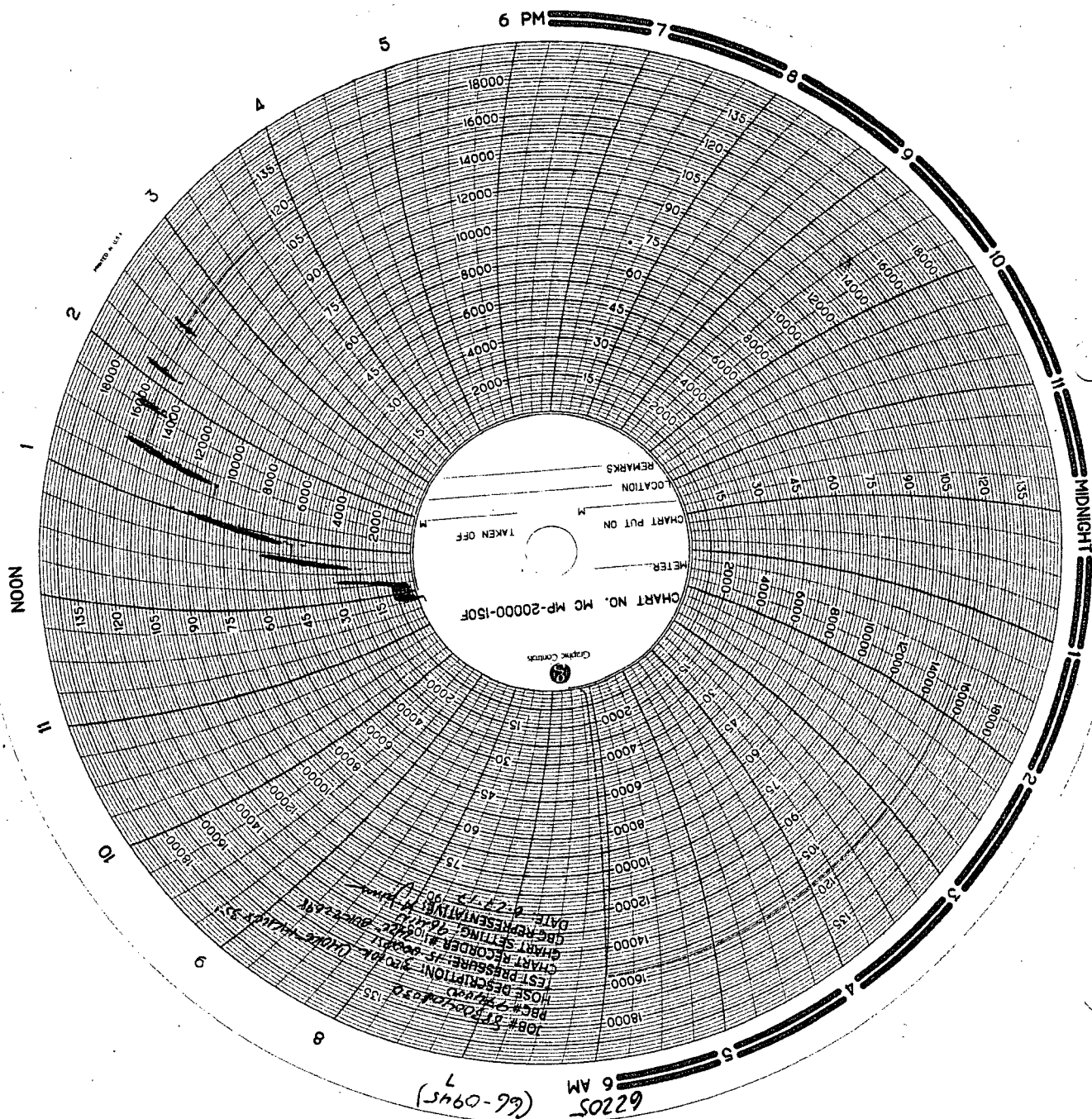
RECERTIFICATION - 3" ID 10K Choke & Kill Hose x 35 ft OAL

1

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 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: 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-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

(1) Ship to party NDTUSA- ODESSA 2500 W OREGON ODESSA TX 79764		(2) Unloading point - storage location - usage	
(3) Delivery note no. 83854547 		(4) Vendor address (short name, plant, ZIP, city) ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston TX 77041-6916	
(8) Supplier ref. no. 00RECERTIFY 			
(9) Quantity 1 		(5) Net weight 1,700 LB	(6) Gross weight 1,700 LB
(12) ContiTech Sales order no. 974000 		(7) Number of packages 1	
(15) Package no. 123198224 		(10) Description of delivery, service Recertification of HP Hoses Se	
		(13) Packing date 06/28/17	(14) Engineering change status
		(16) Customer PO no. 13999606 	

Material label VDA 4902 Vers. 4

66-0945

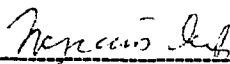
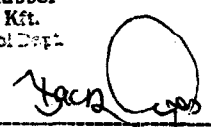
62205



ContiTech

CONTITECH RUBBER
Industrial Kft.

No: QC-DB- 298 / 2017
Page: 8 / 119

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE		CERT. N°: 682	
PURCHASER: ContiTech Oil & Marine Corp.		P.O. N°: 4500984922	
CONTITECH RUBBER order N°: 987778	HOSE TYPE: 3" ID Choke and Kill Hose		
HOSE SERIAL N°: 73981	NOMINAL / ACTUAL LENGTH: 13,72 m / 13,80 m		
W.P. 69,0 MPa 10000 psi	T.P. 103,5 MPa 15000 psi	Duration: 60 min.	
Pressure test with water at ambient temperature			
See attachment (1 page)			
COUPLINGS Type	Serial N°	Quality	Heat N°
3" coupling with	8077 8083	AISI 4130	A0939Y
4 1/16" 10K API Swivel Flange end		AISI 4130	037184 85913
Hub		AISI 4130	A0939Y
Not Designed For Well Testing		API Spec 16 C 2 nd Edition-- FSL2	
TAG NO.: 66-1486		Temperature rate: "B"	
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, 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	Quality Control	
03. October 2017.		ContiTech Rubber Industrial Kft. Quality Control Dept.  	

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

CONTITECH RUBBER
Industrial Kft.

No: QC-DB- 298 / 2017
Page: 9 / 119

1/1

5.000 sec
: 2017/10/02 18:31:10.000
: 2017/10/02 20:26:35.000

Sampling Int.
Start Time
Stop Time

020572_73980.73981.GEV,...020583_73980.73981.GEV

73980.73981

GK10

: S5P606399

: 1388

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142056635

File Name

File Message

Device Type

Serial No.

Data Count

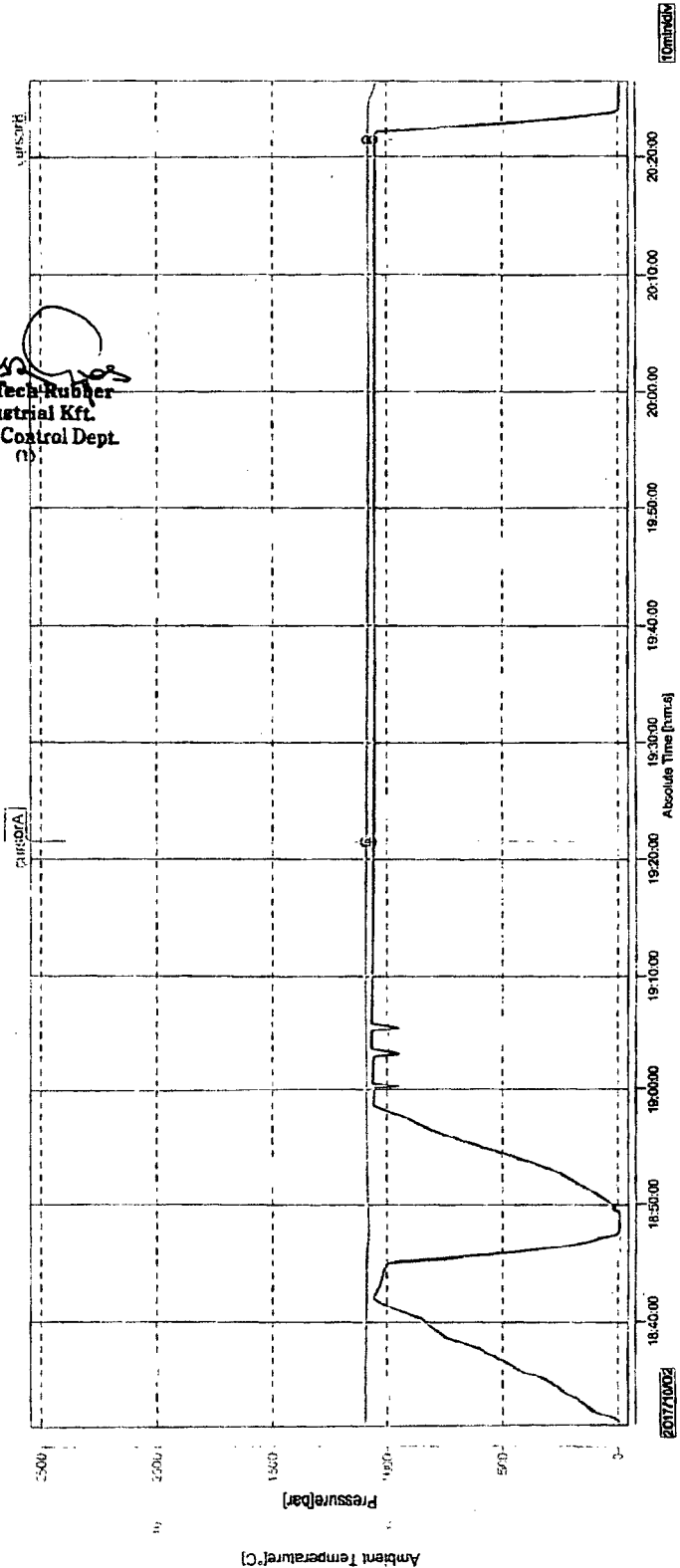
Print Group

Print Range

Comment

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Tag Comment	Value A	Value B	Value B-A
Pressure[bar]	1084.15	1055.97	-28.18
Ambient Temperature[°C]	21.93	21.73	-0.20

ContiTech Rubber
ContiTech Rubber
Industrial Kft.
Quality Control Dept.





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

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	1190	13.375"	54.5	J55	STC	2.12	5.92	7.93
12.25"	0	12140	9.625"	47	HCL80	BTC	1.45	1.03	1.97
8.5	0	22,726	5.5"	23	P110	BTC	1.75	2.07	2.46
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

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	1190	13.375"	54.5	J55	STC	2.12	5.92	7.93
12.25"	0	12140	9.625"	47	HCL80	BTC	1.45	1.03	1.97
8.5	0	22,726	5.5"	23	P110	BTC	1.75	2.07	2.46
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

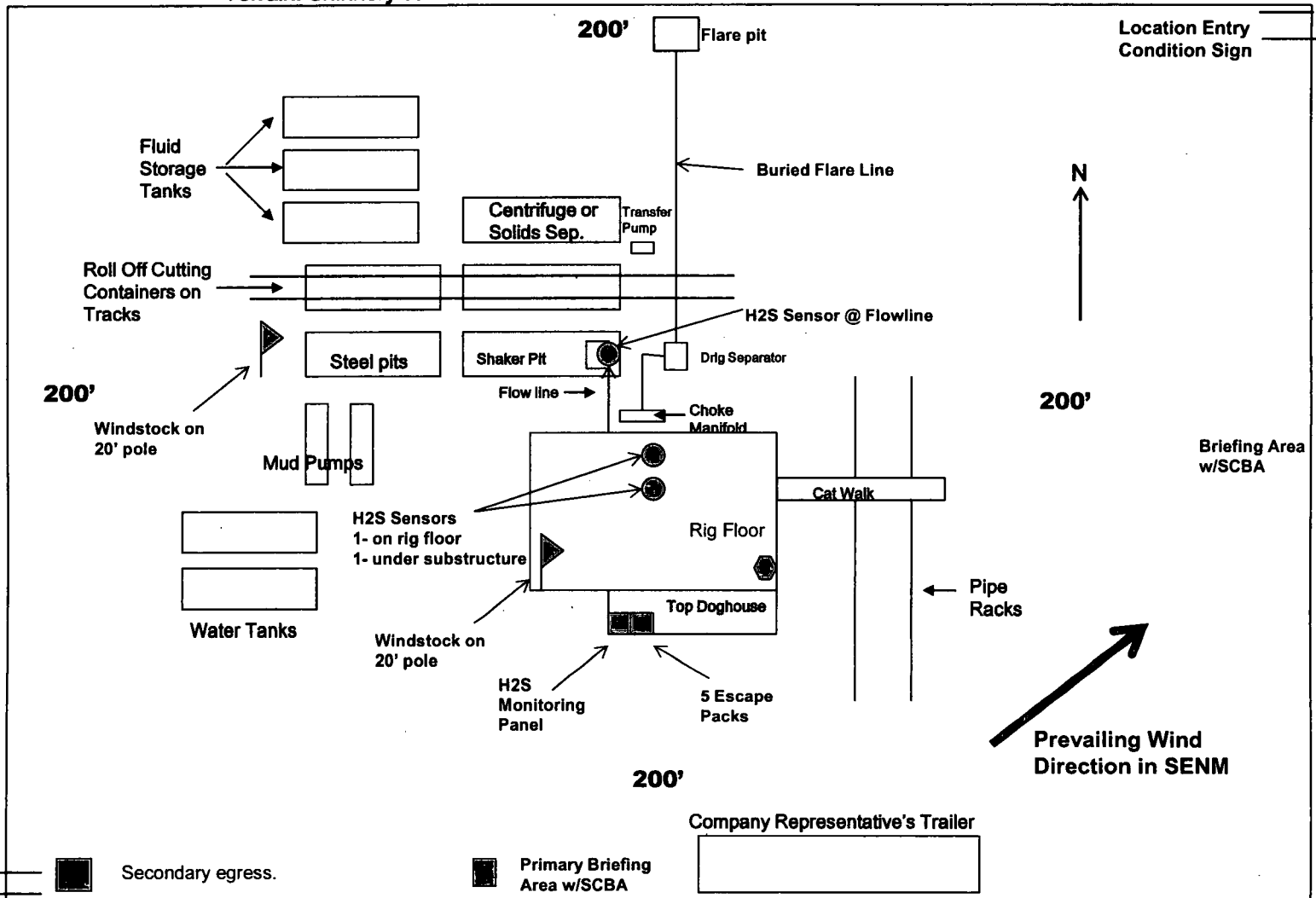
Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	1190	13.375"	54.5	J55	STC	2.12	5.92	7.93
12.25"	0	12140	9.625"	47	HCL80	BTC	1.45	1.03	1.97
8.5	0	22,726	5.5"	23	P110	BTC	1.75	2.07	2.46
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
H₂S Equipment Schematic
Terrain: Shinnery sand hills.

Well pad will be 400' x 400'
with cellar in center of pad



COG Operating, LLC - Fascinator Fed Com 706H

1. Geologic Formations

TVD of target	12,782' EOL	Pilot hole depth	NA
MD at TD:	22,726'	Deepest expected fresh water:	207'

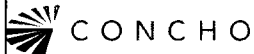
Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1104	Water	
Top of Salt	1301	Salt	
Base of Salt	5149	Salt	
Lamar	5475	Salt Water	
Bell Canyon	5498	Salt Water	
Cherry Canyon	6473	Oil/Gas	
Brushy Canyon	8081	Oil/Gas	
Bone Spring Lime	9324	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	Oil/Gas	
Wolfcamp	12569	Target Oil/Gas	

2. Casing Program

Hole Size	Casing		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	1190	13.375"	54.5	J55	STC	2.12	5.92	7.93
12.25"	0	12140	9.625"	47	HCL80	BTC	1.45	1.03	1.97
8.5	0	22,726	5.5"	23	P110	BTC	1.75	2.07	2.46
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 L L C
Project: Lea County, NM (NAD27 NME)
Site: Sec. 30, T 24 S., R 35 E
Well: Fascinator Fed Com 706H
Wellbore: Wellbore #1
Plan: Plan #1 (Fascinator Fed Com 706H/Wellbore #1)
N 894

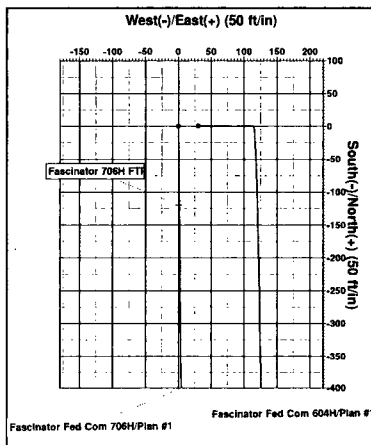
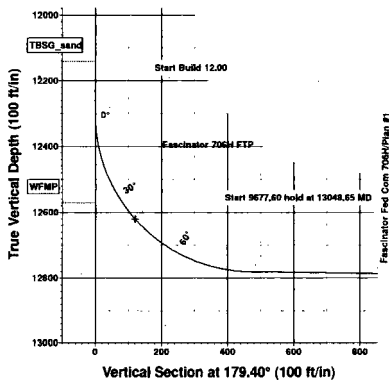
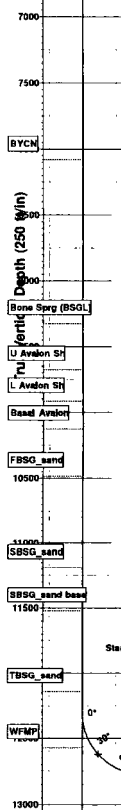
WELL DETAILS: Fascinator Fed Com 706H

Ground Elevation:: 3372.00
RKB Elevation: KB=30' @ 3402.00ft (N 894)
Rig Name: N 894

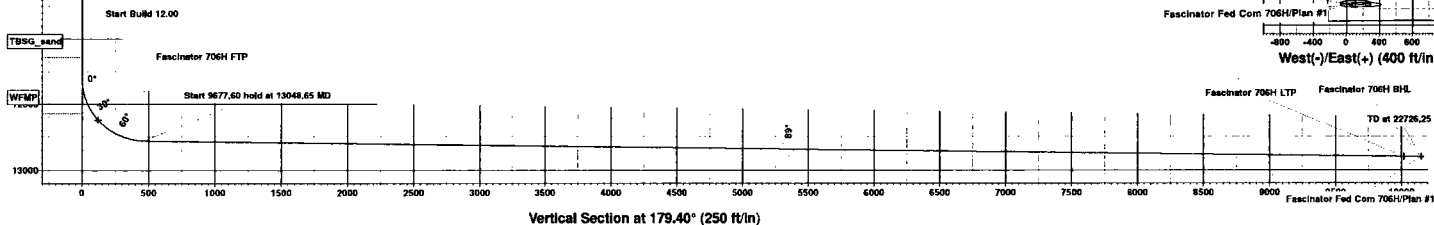
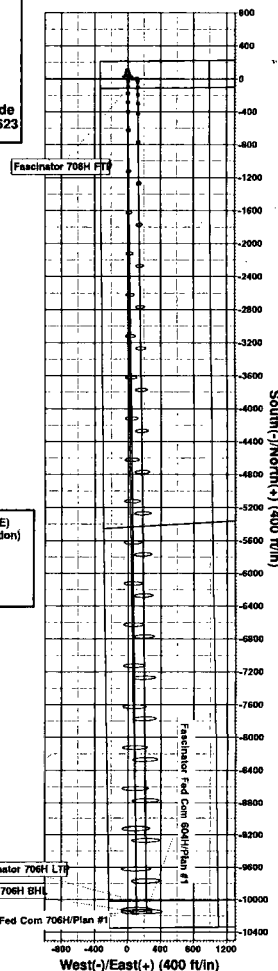
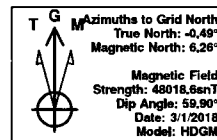
North	East	Lat	Long
435893.82	784505.49	32.195045	-103.413623

Planned Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	12304.57	0.00	0.00	12304.57	0.00	0.00	0.00	0.00	0.00	Start Build 12.00
3	13048.65	89.29	179.40	12782.00	-471.52	4.93	12.00	179.40	471.55	Start 9677.60 hold at 13048.65 MD
4	22726.25	89.29	179.40	12902.00	-10147.85	106.20	0.00	0.00	0.00	TD at 22726.25



PROJECT DETAILS: Lea County, NM (NAD27 NME)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1865
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Local North: Grid



COG Operating, LLC - Fasconator Fed Com 706H

	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 rd 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 nd 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?	

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	520	13.5	1.75	9	12	Lead: Class C + 4% Gel
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage1	1000	11	2.8	19	48	Lead: NeoCem
	300	16.4	1.1	5	8	Tail: Class H
DV Tool @ 5480'						
Inter. Stage2	760	11	2.8	19	48	Lead: NeoCem
	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
	2920	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 st Intermediate	0'	50%
Production	11,140'	35%

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	Type	x	Tested to:
12-1/4"	13-5/8"	5M	Annular	x	2500 psi
			Blind Ram		5M
			Pipe Ram	x	
			Double Ram	x	
			Other*		
8-3/4"	13-5/8"	10M	5M Annular	x	5000 psi
			Blind Ram		10M
			Pipe Ram	x	
			Double Ram	x	
			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.

Y	Formation integrity test will be performed per Onshore Order #2. 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 706H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
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 fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

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.
N	Coring? If yes, explain.

Additional 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)
Y	Mud log	Intermediate shoe to TD
N	PEX	

COG Operating, LLC - Fasconator Fed Com 706H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8310 psi at 12782' TVD
Abnormal Temperature	NO 185 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 (H ₂ S) monitors will be installed prior to drilling out the surface shoe. If H ₂ S 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	H ₂ S is present
Y	H ₂ S Plan attached

8. Other Facets of Operation

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

x	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan
x	5M Annular Variance

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit Original
to Appropriate
District Office

GAS CAPTURE PLAN

Date: 1/12/2018

☒ Original

Operator & OGRID No.: COG Operating LLC, OGRID 229137

☐ Amended - Reason for Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Fascinator Fed. Com #706H	30-025-	D-30-24S-35E	210' FNL & 330' FWL	2,337 MCF		Gas will connect to CTB TBD.

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to Versado, and will be connected to Eunice low/high pressure gathering system located in Lea County, New Mexico. It will require 0' to an undetermined amount of feet of pipeline to connect the facility to low/high pressure gathering system. COG Operating LLC provides (periodically) to Versado a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, COG Operating LLC and Versado have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Eunice Processing Plant located in Sec 3, Twn 22S, Rng 37E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Versado system at that time. Based on current information, it is COG Operating LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

1. Component and Preventer Compatibility Table

The table below covers drilling and casing of the 10M MASP portion of the well and outlines the tubulars and the compatible preventers in use. Combined with the mud program, the below documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

Component	OD	Preventer	RWP
Drill pipe	5"	Upper 4.5-7" VBR Lower 4.5-7" VBR	10M
HWDP	5"		
Jars	5"		
Drill collars and MWD tools	6.25-6.75"		
Mud Motor	6.75"		
Production casing	5.5"	Annular	5M
ALL	0-13-5/8"		
Open-hole	-	Blind Rams	10M

VBR = Variable Bore Ram with compatible range listed in chart.

2. Well Control and Shut-In Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are minimum tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. The maximum pressure at which well control is transferred from the annular to another compatible ram is 2500 psi.

Drilling:

1. Sound the alarm (alert rig crew)
2. Space out the drill string
3. Shut down pumps and stop the rotary
4. Shut-in the well with the annular with HCR and choke in closed position
5. Confirm the well is shut-in
6. Notify contractor and company representatives
7. Read and record the following data
 - Time of shut-in
 - SIDPP and SICP
 - Pit gain
8. If pressure has increased to or is anticipated to increase to 2500 psi, confirm spacing and close the upper pipe rams.
9. Prepare for well kill operation.

Tripping:

1. Sound alarm (alert rig crew)
2. Stab full opening safety valve and close the valve
3. Space out the drill string
4. Shut-in the well with the annular with HCR and choke in closed position
5. Confirm shut-in
6. Notify contractor and company representatives
7. Read and record the following data:

- Time of shut-in
 - SIDPP and SICP
 - Pit gain
8. If pressure has increased to or is anticipated to increase to 2500 psi, confirm spacing and close the upper pipe rams.
 9. Prepare for well kill operation.

Running Casing

1. Sound alarm (alert rig crew)
2. Stab crossover and valve and close the valve
3. Shut-in the well with annular with HCR and choke in closed position
4. Confirm shut-in
5. Notify contractor and company representatives
6. Read and record the following data
 - Time of shut-in
 - SIDPP and SICP
 - Pit gain
7. If pressure has increased to or is anticipated to increase to 2500 psi, confirm spacing and close the upper pipe rams.
8. Prepare for well kill operation

No Pipe in Hole (Open Hole)

1. At any point when pipe or BHA are not in BOP stack, well will be shut in with blind rams, HCR will be open and choke will be closed. If pressure increase is observed:
2. Sound alarm (alert crew)
3. Confirm shut-in
4. Notify contractor and company representatives
5. Read and record the following data
 - Time of shut-in
 - Time of pressure increase
 - SICP
6. Prepare for well kill operation

Pulling BHA through BOP Stack

1. Prior to pulling last joint/stand of drillpipe through the stack, perform a flow check. If well is flowing:
 - a. Sound alarm (alert crew)
 - b. Stab full opening safety valve and close the valve
 - c. Space out drill string with tooljoint just beneath the upper pipe ram.
 - d. Shut-in the well with upper pipe ram with HCR and choke in closed position
 - e. Confirm shut-in
 - f. Notify contractor and company representatives
 - g. Read and record the following data
 - Time of shut-in
 - SIDPP and SICP
 - Pit gain
 - h. Prepare for well kill operation.

2. With BHA in the stack:
 - a. If possible to pick up high enough, pull BHA clear of the stack
 - i. Follow "Open Hole" procedure above
 - b. If impossible to pick up high enough to pull BHA clear of the stack:
 - i. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
 - ii. Space out drill string with tool joint just beneath the upper pipe ram.
 - iii. Shut-in the well with upper pipe ram with HCR and choke in closed position
 - iv. Confirm shut-in
 - v. Notify contractor and company representatives
 - vi. Read and record the following:
 - Time of shut-in
 - SIDPP and SICP
 - Pit gain
 - vii. Prepare for well kill operation.

3. Well Control Drills

Well control drills are specific to the rig equipment, personnel and operation at the time a kick occurs. Each crew will execute one drill weekly relevant to ongoing operations, but will make a reasonable attempt to vary the type of drills. The drills will be recorded in the daily drilling log. Below are minimum tasks for respective well control drills.

Drilling/Pit:

Action	Responsible Party
Initiate Drill <ul style="list-style-type: none"> • Lift Flow Sensor or Pit Float to indicate a kick • Immediately record start time 	Company Representative / Rig Manager
Recognition <ul style="list-style-type: none"> • Driller and/or Crew recognizes indicator • Driller stop drilling, pick up off bottom and spaces out drill string, stop pumps and rotary • Conduct flow check 	Driller
Initiate Action <ul style="list-style-type: none"> • Sound alarm, notify rig crew that the well is flowing 	Company Representative / Rig Manager
Reaction <ul style="list-style-type: none"> • Driller moves BOP remote and stands by • Crew is at their assigned stations • Time is stopped • Record time and drill type in the Drilling Report 	Driller / Crew

Tripping Pit Drills (either in the hole or out of the hole)

Action	Responsible Party
Initiate Drill <ul style="list-style-type: none"> Lift Flow Sensor or Pit Float to indicate a kick Immediately record start time 	Company Representative / Rig Manager
Recognition <ul style="list-style-type: none"> Driller recognizes indicator Suspends tripping operations Conduct Flow Check 	Driller
Initiate Action <ul style="list-style-type: none"> Sound alarm, notify rig crew that the well is flowing 	Company Representative / Rig Manager
Reaction <ul style="list-style-type: none"> Position tool joint above rotary and set slips Stab FOSV and close valve Driller moves to BOP remote and stands by Crew is at their assigned stations Time is stopped Record time and drill type in the Drilling Report 	Driller / Crew

Choke

Action	Responsible Party
<ul style="list-style-type: none"> Have designated choke operator on station at the choke panel Close annular preventer Pressure annulus up 200-300 psi Pump slowly to bump the float and obtain SIDPP At choke operator instruction, slowly bring pumps online to slow pump rate while holding casing pressure constant at the SICP. Allow time for the well to stabilize. Mark and record circulating drillpipe pressure. Measure time lag on drillpipe gauge after choke adjustments. Hold casing pressure constant as pumps are slowed down while choke is closed. Record time and drill type in the Drilling Report 	Company Man / Rig Manager & Rig Crew



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

SUPO Data Report

08/03/2018

APD ID: 10400028757

Submission Date: 03/27/2018

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 706H

Well Type: OIL WELL

Well Work Type: Drill



[Show Final Text](#)

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

COG_Fascinator_706H_Exist_Rd_20180323090414.pdf

Existing Road Purpose: ACCESS

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

COG_Fascinator_706H_MapsPlats_20180323090429.pdf

New road type: TWO-TRACK

Length: 160

Feet

Width (ft.): 30

Max slope (%): 33

Max grade (%): 1

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns.

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 706H

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: Blading

Access other construction information: No turnouts are planned. Re-routing access road around proposed well location.

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: None necessary.

Road Drainage Control Structures (DCS) description: None needed.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

COG_Fascinator_706H_1Mile_Data_20180323090444.pdf

Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: A Central Tank Battery and facilities will be permitted and constructed at a later date (Once an onsite is completed). The battery and facilities will be installed according to API specifications.

Section 5 - Location and Types of Water Supply

Water Source Table

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 706H

Water source use type: INTERMEDIATE/PRODUCTION CASING

Water source type: OTHER

Describe type: Brine

Source latitude:

Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Source land ownership: COMMERCIAL

Water source transport method: TRUCKING

Source transportation land ownership: COMMERCIAL

Water source volume (barrels): 30000

Source volume (acre-feet): 3.866793

Source volume (gal): 1260000

Water source use type: STIMULATION, SURFACE CASING

Water source type: OTHER

Describe type: Fresh Water

Source latitude:

Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Source land ownership: PRIVATE

Water source transport method: PIPELINE

Source transportation land ownership: PRIVATE

Water source volume (barrels): 450000

Source volume (acre-feet): 58.001892

Source volume (gal): 18900000

Water source and transportation map:

COG_Fascinator_706H_BrineH2O_20180323090500.pdf

COG_Fascinator_706H_FreshH2O_20180323090509.pdf

Water source comments: Fresh water will be obtained from C-01414 RRR Cattle Company water well located in Section 10, T24S, R36E. Brine water will be obtained from the Malaga II Brine station located in Section 12, T23S, R28E.

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 706H

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: Caliche will be obtained from the actual well site if available. If not available onsite, caliche will be obtained from Bert Madera caliche pit located in Section 6. T25S. R35E. Phone 575-631-4444.

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drilling fluids and produced oil and water during drilling and completion operations

Amount of waste: 6000 barrels

Waste disposal frequency : One Time Only

Safe containment description: All drilling waste will be stored safely and disposed of properly

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Waste type: SEWAGE

Waste content description: Human waste and gray water

Amount of waste: 250 gallons

Waste disposal frequency : Weekly

Safe containment description: Waste will be properly contained and disposed of properly at a state approved disposal facility

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 706H

Waste type: GARBAGE

Waste content description: Garbage and trash produced during drilling and completion operations

Amount of waste: 125 pounds

Waste disposal frequency : Weekly

Safe containment description: Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly at a state approved disposal facility

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.) **Reserve pit width (ft.)**

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? YES

Description of cuttings location Roll off cuttings containers on tracks

Cuttings area length (ft.) **Cuttings area width (ft.)**

Cuttings area depth (ft.) **Cuttings area volume (cu. yd.)**

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 706H

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: YES

Ancillary Facilities attachment:

COG_Fascinator_706H_GCP_20180323090542.pdf

Comments: GCP Attached.

Section 9 - Well Site Layout

Well Site Layout Diagram:

COG_Fascinator_706H_Prod_Facility_20180323090555.pdf

Comments: A Central Tank Battery and facilities will be permitted and constructed at a later date (Once an onsite is completed). The battery and facilities will be installed according to API specifications.

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: FASCINATOR FEDERAL COM

Multiple Well Pad Number: 604H AND 706H

Recontouring attachment:

Drainage/Erosion control construction: If needed, immediately following pad construction approximately 400' of straw waddles will be placed on the south side and 400' on the east side of the location to reduce sediment impacts to fragile/sensitive soils.

Drainage/Erosion control reclamation: South 80' West 80'

Well pad proposed disturbance (acres): 3.67	Well pad interim reclamation (acres): 0.15	Well pad long term disturbance (acres): 3.35
Road proposed disturbance (acres): 0.06	Road interim reclamation (acres): 0.06	Road long term disturbance (acres): 0.06
Powerline proposed disturbance (acres): 0	Powerline interim reclamation (acres): 0	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 0	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 3.73	Total interim reclamation: 0.21	Total long term disturbance: 3.41

Disturbance Comments:

Reconstruction method: New construction of pad.

Topsoil redistribution: South 80' West 80'

Soil treatment: None

Existing Vegetation at the well pad: Shinnery Oak/Mesquite grassland

Existing Vegetation at the well pad attachment:

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 706H

Existing Vegetation Community at the road: Shinnery Oak/Mesquite grassland

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Shinnery Oak/Mesquite grassland

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: N/A

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre
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Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 706H

First Name: Rand

Last Name: French

Phone: (432)254-5556

Email: rfrench@concho.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: N/A

Weed treatment plan attachment:

Monitoring plan description: N/A

Monitoring plan attachment:

Success standards: N/A

Pit closure description: N/A

Pit closure attachment:

COG_Fascinator_706H_ClosedLoop_20180323090950.pdf

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: STATE OF NEW MEXICO

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 706H

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

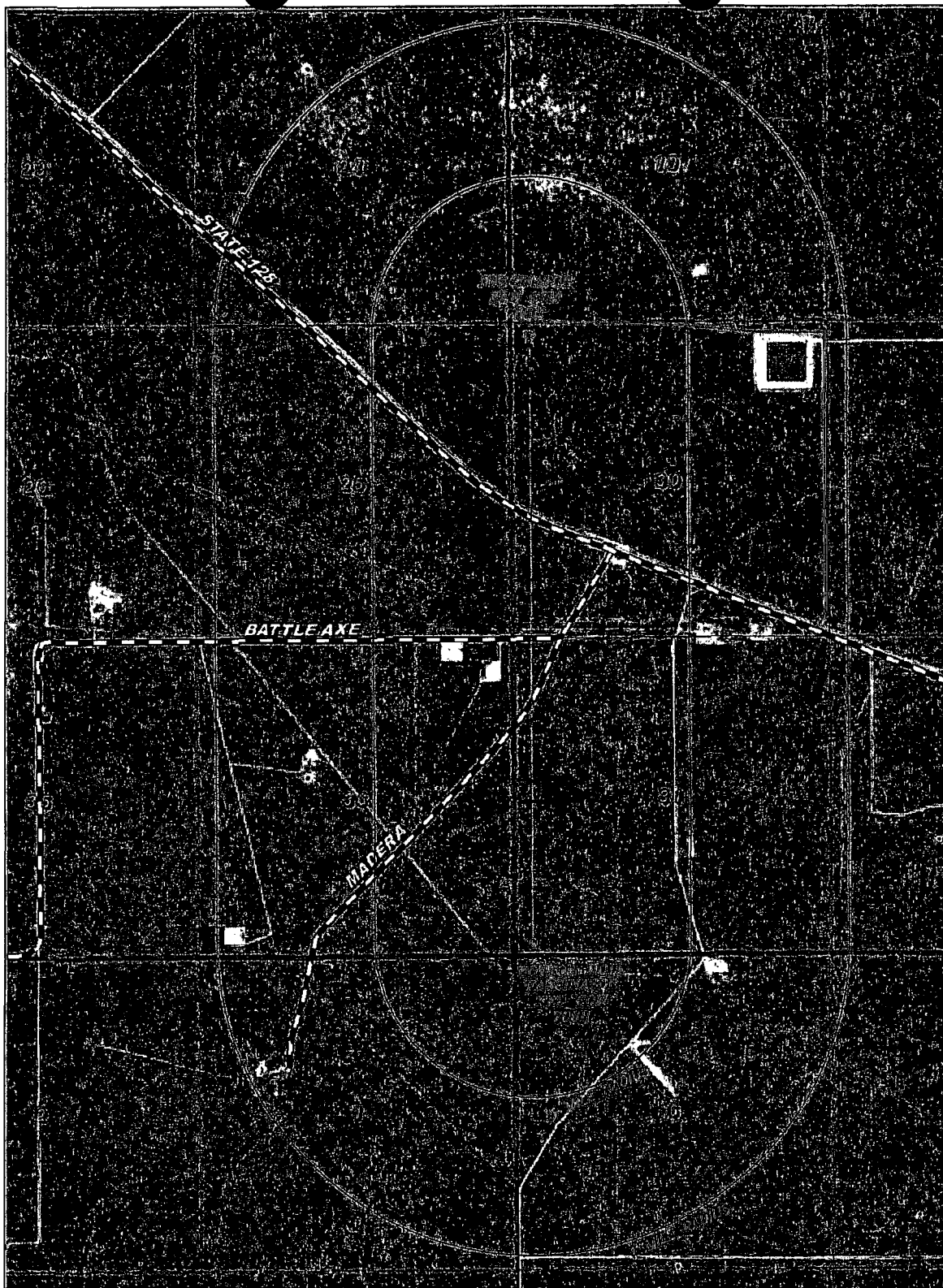
SUPO Additional Information:

Use a previously conducted onsite? YES

Previous Onsite information: Onsite completed on 11/9/2017 by Gerald Herrera (COG) and Jeff Robertson (BLM).

Other SUPO Attachment

COG_Fascinator_706H_Certification_20180323091142.pdf



FASCINATOR FED COM 706H AND BOTTOM HOLE LOCATION

Located 210' FNL and 330' FWL

Section 30, Township 24 South, Range 35 East,
N.M.P.M., Lea County, New Mexico.

basin
surveys
focused on excellence
in the oilfield

P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 - Office
(575) 392-2206 - Fax
basinsurveys.com

0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

W.O. Number: JG 33314

Survey Date: 10-3-2017

YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND

COG
OPERATING,
LLC

Surface Use Plan
COG Operating LLC
Fascinator Federal Com 706H
SHL: 210' FNL & 330' FWL UL D
Section 30, T24S, R35E
BHL: 200' FSL & 330' FWL UL M
Section 31, T24S, R35E
Lea County, New Mexico

OPERATOR CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access road proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or COG Operating LLC, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. Executed this 12th day of JANUARY, 2018.

Signed: Mayte Reyes

Printed Name: Mayte Reyes

Position: Regulatory Analyst

Address: 2208 W. Main Street, Artesia, NM 88210

Telephone: (575) 748-6945

E-mail: mreyes1@concho.com

Field Representative (if not above signatory): Rand French

Telephone: (575) 748-6940. E-mail: rfrench@concho.com



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

PWD Data Report

08/03/2018

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



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

Bond Info Data Report

08/03/2018

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB000215

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 706H

	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
PPP Leg #1	264 0	FSL	330	FWL	24S	35E	30	Aliquot NWS W	32.18837	- 103.4140 77	LEA	NEW MEXI CO	NEW MEXI CO	F	FEE	- 943 3	149 00	128 05
PPP Leg #1	0	FNL	330	FWL	24S	35E	31	Aliquot NWN W	32.18099	- 103.4140 6	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 014164	- 946 5	175 00	128 37
PPP Leg #1	132 0	FSL	330	FWL	24S	35E	31	Aliquot SWN W	32.17747	- 103.4140 6	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 132947	- 948 1	188 00	128 53
PPP Leg #1	264 0	FSL	330	FWL	24S	35E	30	Aliquot NWS W	32.17396	- 103.4140 43	LEA	NEW MEXI CO	NEW MEXI CO	F	FEE	- 948 4	190 00	128 56
EXIT Leg #1	330	FSL	330	FWL	24S	35E	31	Aliquot SWS W	32.16763	- 103.4140 31	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 132947	- 952 7	225 00	128 99
BHL Leg #1	200	FSL	330	FWL	24S	35E	31	Aliquot SWS W	32.16727	- 103.4141 24	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 132947	- 941 0	227 26	127 82