

Carlsbad HOBBS OCD

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

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 (229/137)		7. If Unit or CA Agreement, Name and No.
3a. Address 600 West Illinois Ave Midland TX 79701		8. Lease Name and Well No. (322255) FASCINATOR FEDERAL COM 702H
3b. Phone No. (include area code) (432)683-7443		9. API Well No. 30-025-46112
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface NENW / 210 FNL / 2100 FWL / LAT 32.195173 / LONG -103.408373 At proposed prod. zone SESW / 200 FSL / 1930 FWL / LAT 32.16727 / LONG -103.408858		10. Field and Pool, or Exploration WILDCAT / WOLECAMP (95098) WOLFPHONE
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	17. Spacing Unit dedicated to this well 320
18. Distance from proposed location* to nearest well, drilling, completed, 1282 feet applied for, on this lease, ft.	19. Proposed Depth 12862 feet / 22827 feet	20. BLM/BIA Bond No. on file FED: NMB000215
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3346 feet	22. Approximate date work will start* 07/01/2018	23. Estimated duration 30 days

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

- |  |   |
|--|---|
| 1. Well plat certified by a registered surveyor.   | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan.  | 5. Operator certification   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. 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 03/22/2018
Title Regulatory Analyst		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Christopher Walls / Ph: (575)234-2234	Date 08/07/2018
Title Petroleum Engineer		

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)

SCP Rec 08/16/18

APPROVED WITH CONDITIONS  
Approval Date: 08/07/2018

K2  
08/17/18

## 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: NENW / 210 FNL / 2100 FWL / TWSP: 24S / RANGE: 35E / SECTION: 30 / LAT: 32.195173 / LONG: -103.408373 ( TVD: 0 feet, MD: 0 feet )  
PPP: NENW / 0 FNL / 1930 FWL / TWSP: 24S / RANGE: 35E / SECTION: 31 / LAT: 32.18096 / LONG: -104.40889 ( TVD: 12785 feet, MD: 17600 feet )  
PPP: NESW / 2640 FSL / 1930 FWL / TWSP: 24S / RANGE: 35E / SECTION: 30 / LAT: 32.188355 / LONG: -103.408907 ( TVD: 12747 feet, MD: 15000 feet )  
PPP: NENW / 330 FNL / 1930 FWL / TWSP: 24S / RANGE: 35E / SECTION: 30 / LAT: 32.194842 / LONG: -103.408922 ( TVD: 12717 feet, MD: 13000 feet )  
BHL: SESW / 200 FSL / 1930 FWL / TWSP: 24S / RANGE: 35E / SECTION: 31 / LAT: 32.16727 / LONG: -103.408858 ( TVD: 12862 feet, MD: 22827 feet )

### BLM Point of Contact

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

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## **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.

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

## Application Data Report

08/07/2018

APD ID: 10400028703

Submission Date: 03/22/2018

Highlighted data  
reflects the most  
recent changes

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 702H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

### Section 1 - General

APD ID: 10400028703

Tie to previous NOS?

Submission Date: 03/22/2018

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: 702H

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: 702H

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: 601H, 701H AND 702H

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: 1282 FT

Distance to lease line: 200 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: COG\_Fascinator\_702H\_C102\_20180322092600.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	210 0	FWL	24S	35E	30	Aliquot NENW 3	32.19517 3	- 103.4083 73	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	334 6	0	0
KOP Leg #1	210	FNL	210 0	FWL	24S	35E	30	Aliquot NENW 3	32.19517 3	- 103.4083 73	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	334 6	0	0
PPP Leg #1	330	FNL	193 0	FWL	24S	35E	30	Aliquot NENW 2	32.19484 2	- 103.4089 22	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	- 937 1	130 00	127 17



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

## Drilling Plan Data Report

08/07/2018

APD ID: 10400028703

Submission Date: 03/22/2018

Highlighted data  
reflects the most  
recent changes

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 702H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

### Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	UNKNOWN	3346	0	0	DOLOMITE	NONE	No
2	RUSTLER	2269	1076	1076		NONE	No
3	TOP SALT	2085	1260	1260	SALT	NONE	No
4	BOTTOM SALT	-1763	5108	5108	ANHYDRITE	NONE	No
5	LAMAR	-2089	5434	5434	LIMESTONE	NATURAL GAS,OIL	No
6	BELL CANYON	-2112	5457	5457		NONE	No
7	CHERRY CANYON	-3087	6432	6432		NATURAL GAS,OIL	No
8	BRUSHY CANYON	-4695	8040	8040		NATURAL GAS,OIL	No
9	BONE SPRING LIME	-5938	9283	9283	SANDSTONE	NATURAL GAS,OIL	No
10	UPPER AVALON SHALE	-6288	9633	9633		NATURAL GAS,OIL	No
11		-6529	9874	9874		NATURAL GAS,OIL	No
12	BONE SPRING 1ST	-7097	10442	10442		NATURAL GAS,OIL	No
13	BONE SPRING 2ND	-7803	11148	11148		NATURAL GAS,OIL	No
14	BONE SPRING 3RD	-8753	12098	12098		NATURAL GAS,OIL	No
15	WOLFCAMP	-9161	12506	12506	SHALE	NATURAL GAS,OIL	Yes

### Section 2 - Blowout Prevention

**Operator Name:** COG OPERATING LLC

**Well Name:** FASCINATOR FEDERAL COM

**Well Number:** 702H

**Pressure Rating (PSI):** 10M

**Rating Depth:** 12862

**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\_702H\_10M\_Choke\_20180322093335.pdf

**BOP Diagram Attachment:**

COG\_Fascinator\_702H\_10M\_BOP\_20180322093341.pdf

COG\_Fascinator\_702H\_Flex\_Hose\_20180723130055.pdf

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**Pressure Rating (PSI):** 5M

**Rating Depth:** 12100

**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\_702H\_5M\_Choke\_20180322093456.pdf

**BOP Diagram Attachment:**

COG\_Fascinator\_702H\_5M\_BOP\_20180322093503.pdf

COG\_Fascinator\_702H\_Flex\_Hose\_20180723130046.pdf

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Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 702H

### 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	1145	0	1145	-9411	-10581	1145	J-55	54.5	STC	2.21	6.15	DRY	8.24	DRY	8.24
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	12100	0	12100	-9411	-21491	12100	HCL-80	47	OTHER - BTC	1.46	1.03	DRY	1.97	DRY	1.97
3	PRODUCTION	8.5	5.5	NEW	API	N	0	22827	0	22727	-9411	-29318	22827	P-110	23	OTHER - BTC	1.74	2.05	DRY	2.45	DRY	2.45

#### Casing Attachments

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COG\_Fascinator\_702H\_Casing\_Plan\_20180322093728.pdf

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 702H

#### Casing Attachments

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COG\_Fascinator\_702H\_Casing\_Plan\_20180322093714.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COG\_Fascinator\_702H\_Casing\_Plan\_20180322093721.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	1145	500	1.75	13.5	8.75	50	Class C	4% Gel
SURFACE	Tail		0	1145	250	1.34	14.8	335	50	Class C	2% CaCl2
INTERMEDIATE	Lead		0	1210 0	1000	2.8	11	2800	50	Lead: NEOCEM	As needed
INTERMEDIATE	Tail		0	1210 0	300	1.1	16.4	330	50	Class H	As needed
PRODUCTION	Lead		0	2282 7	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: 702H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		0	2282 7	2960	1.24	14.4	2670	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
1210 0	2282 7	OIL-BASED MUD	10.5	12.5							OBM
0	1145	OTHER : FW Gel	8.4	8.6							FW Gel
1145	1210 0	OTHER : Diesel Brine Emulsion	8.6	9.4							Diesel Brine Emulsion

**Operator Name:** COG OPERATING LLC

**Well Name:** FASCINATOR FEDERAL COM

**Well Number:** 702H

### 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:** 8365

**Anticipated Surface Pressure:** 5535.36

**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\_702H\_H2S\_Schem\_20180322094300.pdf

COG\_Fascinator\_702H\_H2S\_SUP\_20180322094307.pdf

### Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

COG\_Fascinator\_702H\_AC\_Report\_20180322094348.pdf

COG\_Fascinator\_702H\_Direct\_Plan\_20180322094358.pdf

**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

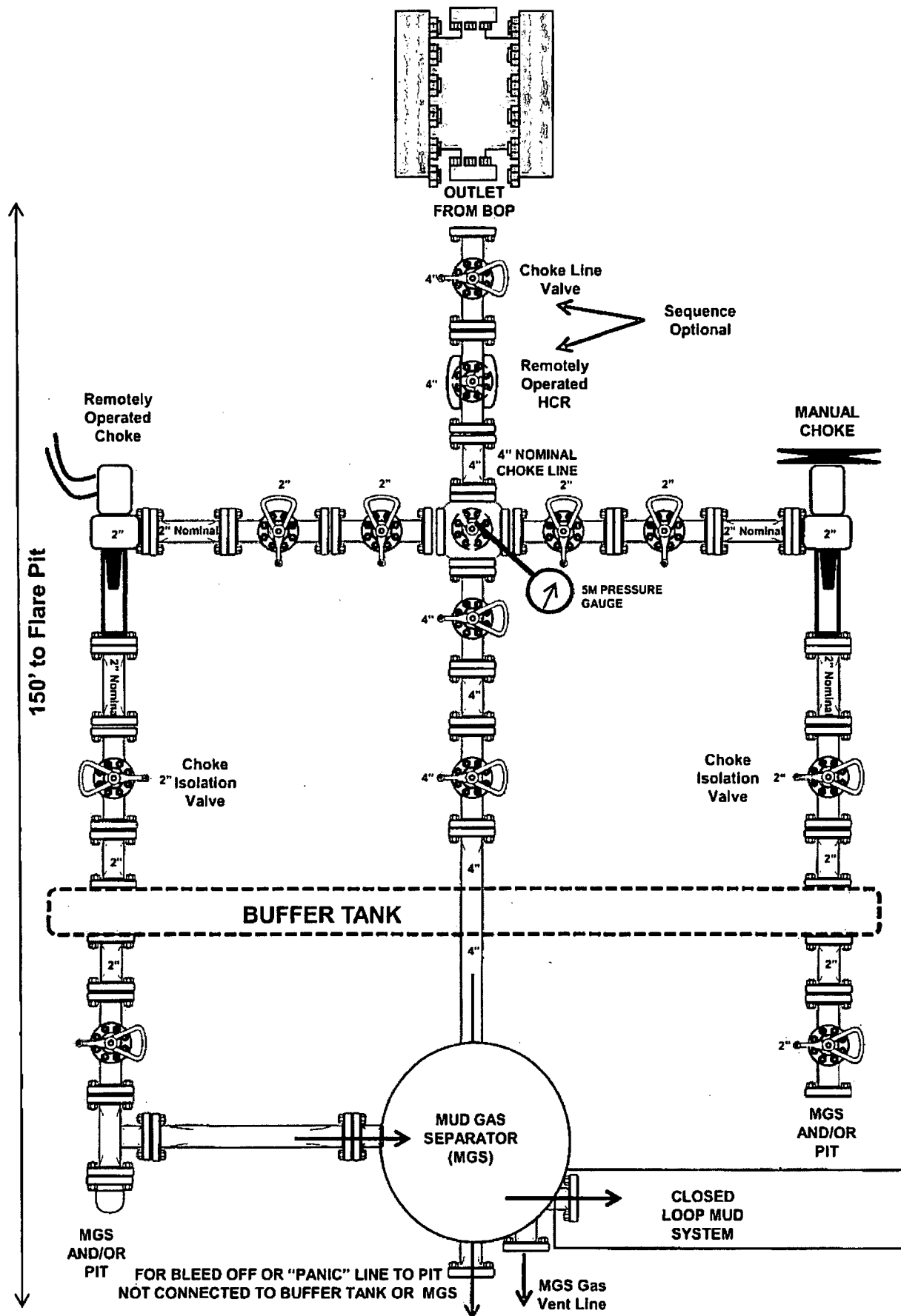
COG\_Fascinator\_702H\_GCP\_20180716083353.pdf

COG\_Fascinator\_702H\_Drill\_Prog\_20180716083428.pdf

**Other Variance attachment:**

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

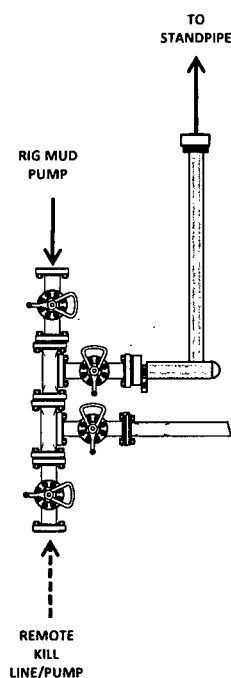
# 5M Choke Manifold Equipment (WITH MGS + CLOSED LOOP)



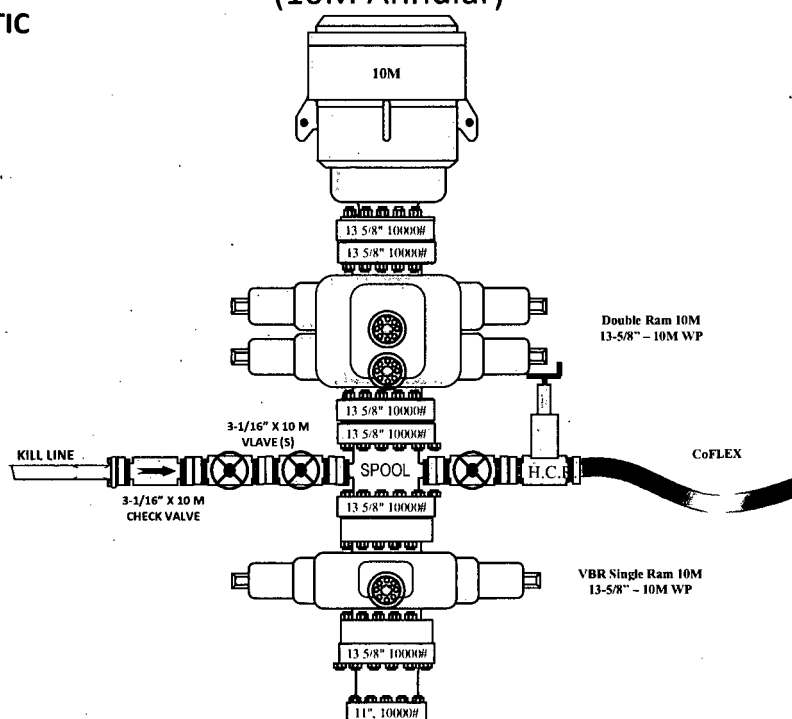


## 10M BOP Stack

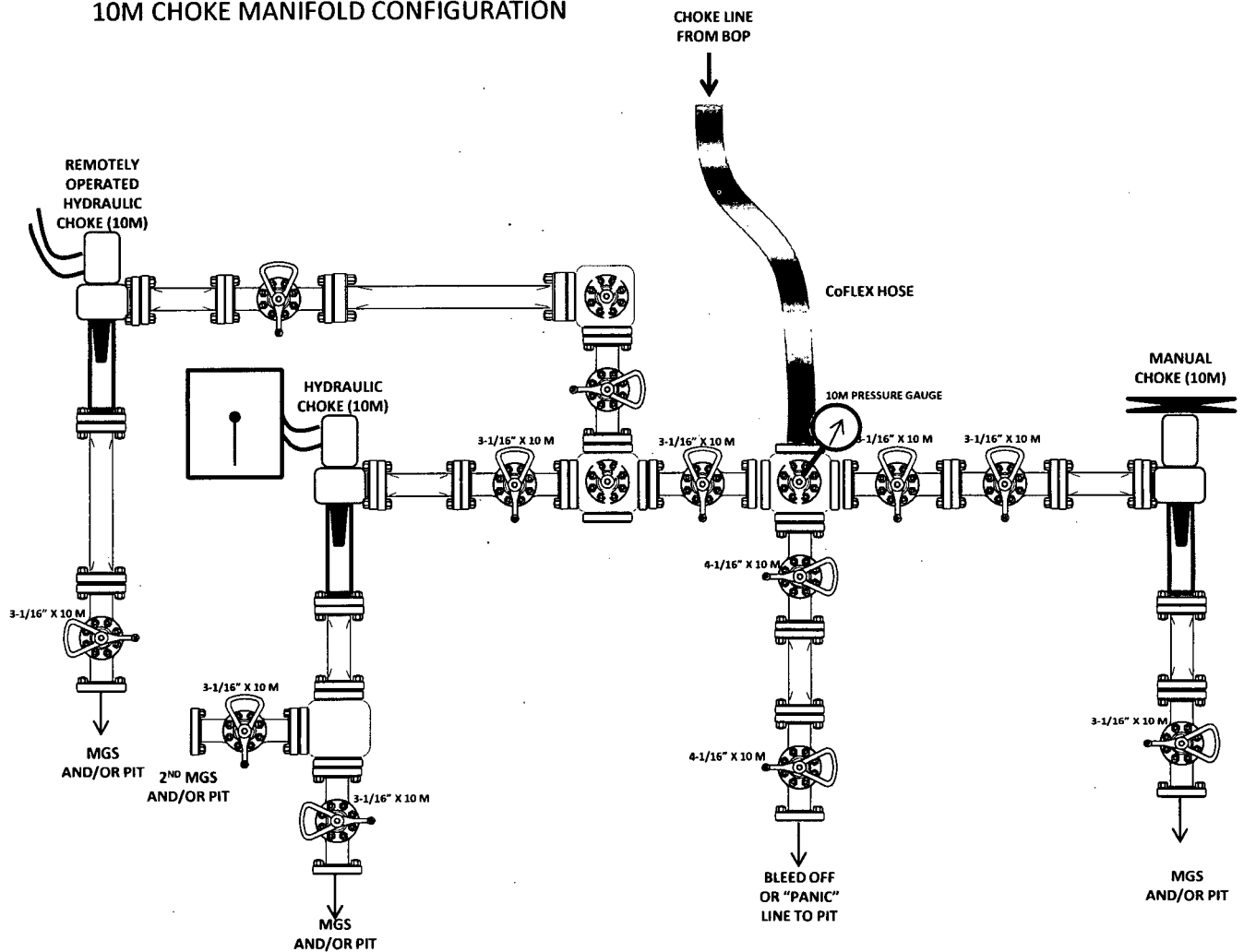
## 10M REMOTE KILL SCHEMATIC



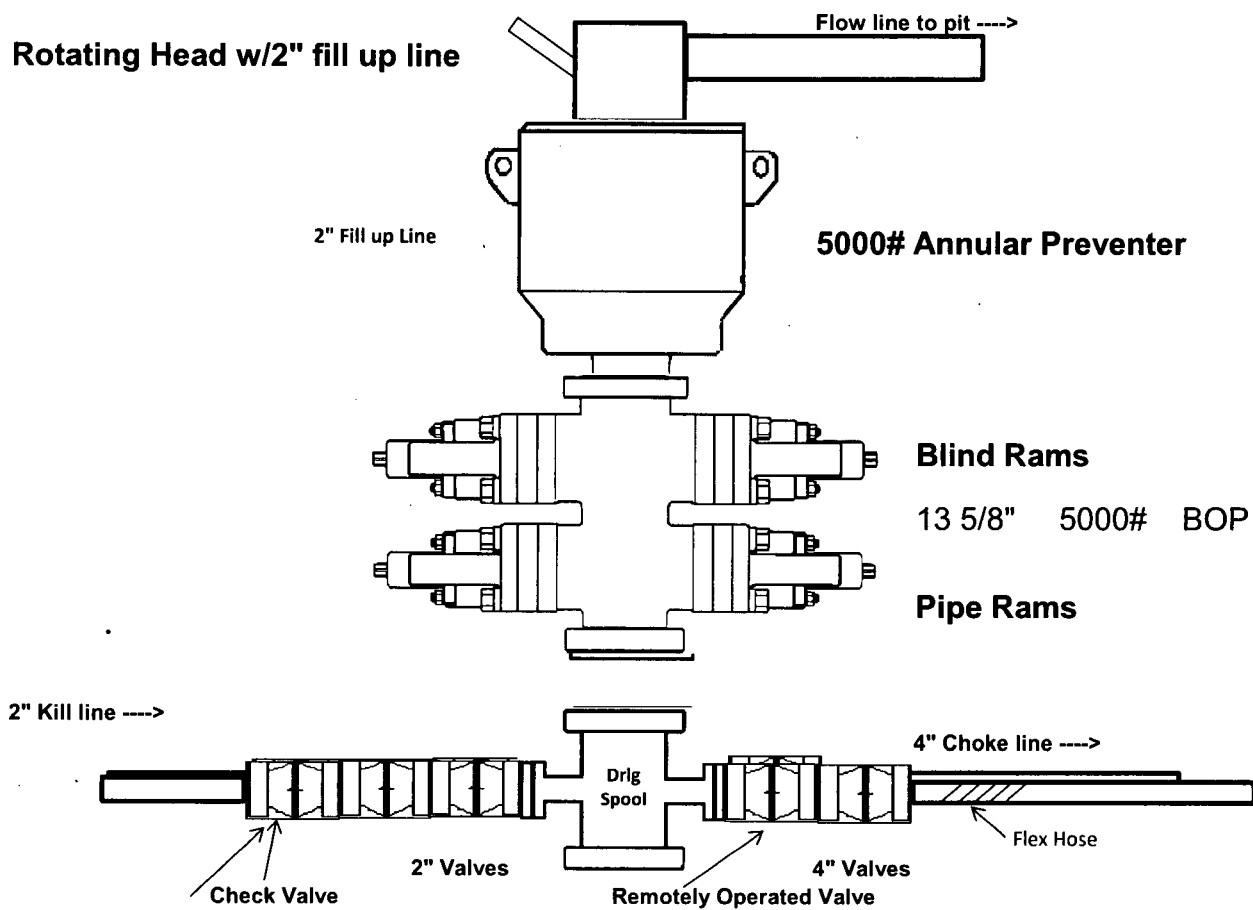
## 10M BOP Stack (10M Annular)



# 10M CHOKE MANIFOLD CONFIGURATION



## 5,000 psi BOP Schematic







ContiTech

QUALITY CONTROL	No.: QC-DB- 351 / 2016
	Page : 1 / 88
Hose No.: 72879	Revision : 0
	Date: 05. September 2016.
	Prepared by : <i>Michał K. Zolko</i>
	Appr. by: <i>SSG</i>

# CHOKE AND KILL HOSE

id.: 3" 69 MPa x 13,72 m (45 ft)

## DATA BOOK

Purchaser: SCANDRILL

Purchaser Order No.: 143799

ContiTech Rubber Order No.: 543951

ContiTech Oil & Marine Corp. Order No.:  
4500795683 COM880841

**NOT DESIGNED FOR WELL TESTING**



ContiTech

CONTITECH RUBBER  
Industrial Kft.

No: QC-DB- 351 / 2016

Page: 5 / 88

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 1050	
PURCHASER: ContiTech Oil & Marine Corp.				P.O. N°: 4500795683	
CONTITECH RUBBER order N°: 543951		HOSE TYPE: 3" ID		Choke and Kill Hose	
HOSE SERIAL N°: 72879		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		2587		AISI 4130	
3 1/16" 10K API Swivel Flange end				AISI 4130	
Hub				AISI 4130	
3" coupling with		2584		AISI 4130	
3 1/16" 10K API b.w. Flange end				AISI 4130	
<b>Not Designed For Well Testing</b>					
<b>API Spec 16 C 2<sup>nd</sup> Edition- FSL2</b>					
<b>Temperature rate:"B"</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	
30. August 2016.				ContiTech Rubber Industrial Kft. Quality Control Dept. <i>Robert Kiskolc</i> <i>Yves</i>	

ATTACHMENT OF QUALITY CONTROL  
INSPECTION AND TEST CERTIFICATE  
No: 1050

CONTITECH RUBBER  
Industrial Kft.

No: QC-DB- 351 / 2016  
Page: 6 / 88

1/1

Sampling Int. : 5.000 sec  
Start Time : 2016/08/29 21:12:25.000  
Stop Time : 2016/08/29 23:00:50.000

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File Message : 72879

Device Type : GX10

Serial No. : SSP606399

Data Count : 1302

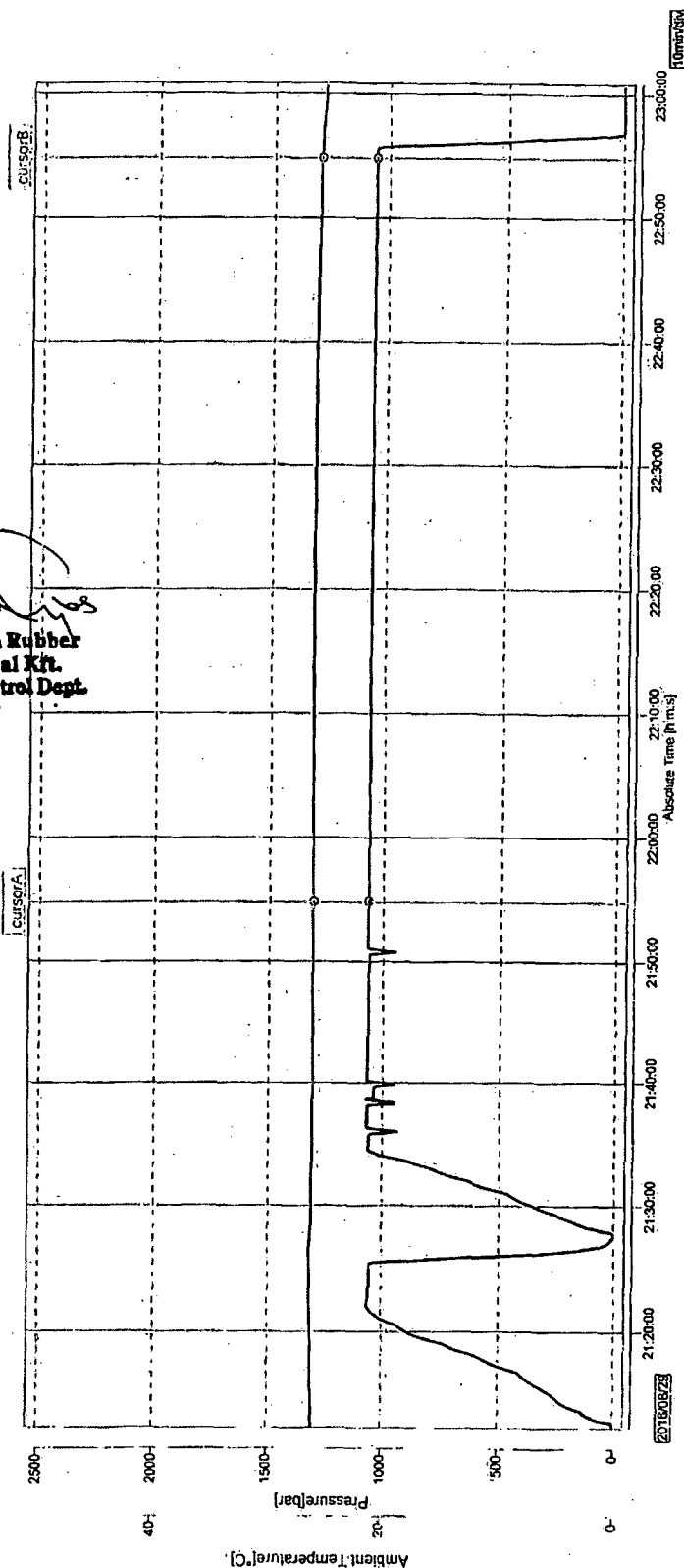
Print Group : Press-Temp

Print Range : 2016/08/29 21:12:25.000 - 2016/08/29 23:00:50.000

Comment : 142056635

Data No.	Cursor A	Cursor B	Difference
509	2016/08/29 21:12:25.000	2016/08/29 22:54:50.000	01:00:00.000
Absolute Time	2016/08/29 21:12:25.000	2016/08/29 22:54:50.000	01:00:00.000
Tag Comment	Value A	Value B	Value B-A
Pressure[bar]	1058.16	1054.43	-13.73
Ambient Temperature[°C]	26.17	25.88	-0.29

ContiTech Rubber  
Industrial Kft.  
Quality Control Dept.  
(3)





CONTITECH RUBBER  
Industrial Kft.

No: QC-DB- 351 / 2016

Page: 7 / 88

ContiTech

## Hose Data Sheet

CRI Order No.	543951
Customer	ContiTech Oil & Marine Corp.
Customer Order No	4500795683 COM880841
Item No.	1
Hose Type	Flexible Hose
<b>Standard</b>	<b>API SPEC 16C 2ND EDITION FSL2</b>
Inside dia in inches	3
Length	45 ft
Type of coupling one end	FLANGE 3.1/16" 10K API SPEC 6A TYPE 6BX, BUTT WELDED, BX154ST.ST. LINED R.GR. SOUR
Type of coupling other end	FLANGE 3.1/16" 10K API SPEC 17D SV SWIVEL FLANGE, BX154 ST.ST. LINED R.GR. 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	Yes
Safety wire rope	No
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

*Szabo S1*  
ContiTech Rubber  
Industrial Kft.  
QC2



ContiTech Fluid Technology

<b>ContiTech Oil &amp; Marine Corp. # 11535 Brittonmoore Park Dr., Houston, TX 77041-6916 USA</b>		<b>Delivery Note</b>	
ScanDrill Inc. 9395 HWY 2767 TYLER TX 75708		Document No.	<b>83352143</b>
		Document Date	<b>10/05/2016</b>
<b>Transport Details - Shipping</b>		Customer Number	15483
		Customer VAT No.	
		Supplier Number	
		N° EORI:	FR41027953300021
		Purchase Order No.	143799
		Purchase Order Date	07/01/2016
		Sales Order Number	880841
		Sales Order Date	07/05/2016
		Unloading Point	
<b>Conditions</b>		<b>Page 1 of 3</b>	
Shipping Conditions	0 days		
Inco Terms	EXW Houston, TX		
	Ex Works		
<b>Weights (Gross / Net)</b>			
		Total Weight	2,323 LB
		Net Weight	1,643 LB
 <i>Buyer: Joe Ward</i> <i>E-mail: jward@scandrift.com</i> <i>Tel: 903.597.5368</i>  <i>Payment Terms:</i> <i>50% Due at order Placement</i> <i>50% Due Prior to Dispatch</i>  <i>Rev 01 - 092116 - Sales Tax added to the order.</i>			
<b>Item</b>	<b>Material/Description</b>	<b>Quantity</b>	<b>Weight</b>
10	HCK3FA45IPSIVS 3" x 45ft, Choke and Kill Hose, WP 10K End A: 3.1/16" 10K Flange, API Spec. 6A Type 6BX, Butt Welded, BX154 Stainless Steel 316 Lined Ring Groove - Sour End B: 3.1/16" 10K Flange, API Spec 17D SV Swivel Flange, BX154 Stainless Steel 316 Lined Ring Groove - Sour Standard: API SPEC 16C 2ND EDITION FSL2 - Monogrammed Working Pressure: 10000 psi Test Pressure: 15000 psi Fire Rated: No Armoured: Yes - Stainless Steel 316L Interlock Design Temperature: -20 to 100°C High Temperature Exposure / Survival @ 177 Deg C (internal in a kick situation) As Per API 16C B.12.5!	1 PC	1,643 LB

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

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

Managing Director  
(President)  
Zuzana Czovak

Bank: JPMorgan Chase,  
707 Travis St, 9 Floor N, Houston, TX 77002  
Account: 08100044552  
ABA/Routing: 021000021, ACH: 111000614



ContiTech Fluid Technology

<b>Conditions</b> Shipping Conditions 0 days Inco Terms EXW Houston, TX Ex Works		<b>Delivery Note</b> Document No. 83352143 Document Date 10/05/2016 Page 2 of 3	
<p>Brand Name: Continental ContiTech</p> <p>serial no:72879</p> <p>Supplied with: 2 x Safety Clamps 2 x Lifting Collars Double Eyed 2 x Safety Chains c/w Shackles Each End x 8ft</p> <p>Packing to ISPM-15 Heat Treated Packing type: Wooden Crate, Gross weight: 1056 kg / 2323 lbs Dimensions: 2870 x 640 x 2800.mm (L x W x H) 113 x 25.2 x 110.2 inch To be handled/shipped in a vertical position</p> <p>HTS# 4009.42.0050 ECCN: EAR99 COO: Hungary</p> <p>20 00TAX-SALES 1 PC 0 LB SALES TAX %8.25 Buyer: Joe Ward E-mail: jward@scandrift.com Tel: 903.597.5368</p> <p>Payment Terms: 50% Due at order Placement 50% Due Prior to Dispatch</p> <p>Rev 01 - 092116 - Sales Tax added to the order.</p> <p>Order/Item 880841/20 07/05/2016 Customer's PO no./Item 143799</p>			
<b>Inner packages</b>			






ContiTech Fluid Technology

<b>Conditions</b>		<b>Delivery Note</b>	
Shipping Conditions	0 days	Document No.	83352143
Inco Terms	EXW Houston, TX	Document Date	10/05/2016
	Ex Works	Page 3 of 3	

Quantity	Packaging	Material	Charge
1	113 X 25.2 X 110.2 INCH -Wooden crate	HCK3FA45IPSIVS	1
Package number 118448718			

(1) Ship-to party <b>ScanDrill Inc.</b> <b>9395 HWY 2767</b> <b>TYLER TX 75708</b>		(2) Unloading point - storage location - usage	
(3) Delivery note no. <b>83352143</b>  		(4) Vendor address (short name, plant, ZIP, city) <b>ContiTech Oil &amp; Marine Corp.</b> <b>11535 Brittmoore Park Drive</b> <b>Houston TX 77041-6916</b>	
(8) Supplier ref. no.			
(9) Quantity		(5) Net weight <b>1,643 LB</b>	(6) Gross weight <b>2,323 LB</b>
(12) Contitech Sales order no.		(7) Number of packages <b>1</b>	
SN: 72879		(10) Description of delivery, service	
(13) Packing date <b>10/07/16</b>		(14) Engineering change status	
(15) Package no. <b>118448718</b>  		(16) Customer PO no. <b>143799</b>  	

Material label VDA 4902 Vers. 4

<b>Sender/Vendor</b> <b>Vendor-no.</b> <b>ContiTech Oil &amp; Marine Corp.</b> <b>11535 Brittmoore Park Drive</b> <b>77041-6916 Houston</b>		<b>Recipient</b> <b>Sender no. at shipping carrier</b> <h2 style="text-align: center;">Freight Order</h2>	
<b>Loading point</b> <b>3301 / CT O&amp;M Corp Houston</b>		<b>Date</b> <b>10-05-2016</b> <b>Relation-no.</b>	
<b>Sending-/loading-ref.number</b> <b>31127221</b>		<b>Shipping carrier</b> <b>Carrier-no.</b>	
<b>Recipient</b> <b>Cust.-no.</b> <b>15483</b> <b>ScanDrill Inc.</b> <b>9395 HWY 2767</b> <b>TYLER TX 75708</b> <b>USA</b>		<b>Phone</b> <b>Fax</b>	
<b>Deliv./Uploading point</b>		<b>Sender comment for the shipping carrier</b>	
<b>Delivery-note-no.</b> <b>Packaging number</b>		<b>Incoming date</b> <b>Incoming time</b>	
<b>Delivery(ies):</b> <b>83352143</b>  <b>118448718</b>	<b>Quan.</b> <b>1</b>	<b>Packaging</b> <b>113 X 25.2 X</b> <b>110.2 INCH</b>	<b>S</b> <b>Contents</b> <b>3" x 45ft, Choke and Kill Hose, WP</b> <b>10K</b> <b>SALES TAX %8.25</b>
<b>Net-weight LB</b> <b>1643</b>		<b>Gross-weight LB</b> <b>1,054</b>	
<b>Total:</b>		<b>1</b>	<b>Volume / working width approx</b>
<b>Total:</b>		<b>1643</b>	<b>1,054</b>
<b>Prepayment of charges</b> <b>Ex Works</b>		<b>Cust. order number</b> <b>143799</b> <b>Acont assignmt</b> <b>Means of transp. no.</b> <b>Truck code</b> <b>Disp. type</b> <b>Truck (Subco)</b>	
<b>Sales order no. / PO no.</b> <b>SO: 880841 / PO: 143799</b>		<b>Acknowledgment of receipt of the gds recipient:</b> <b>Shipment above complete and in</b> <b>Received in correct state.</b>	
<b>Driver's confirmation of reception</b> <b>Shipment above complete and in</b> <b>Taken over in correct state.</b>		<b>Company stamp/signature</b>	
<b>Date</b>	<b>Time</b>	<b>Signature</b>	

Vendor-no.

Sending-/Loading-Ref.number



Sender/Vendor

Vendor-no.

ContiTech Oil & Marine Corp.  
11535 Brittmoore Park Drive  
77041-6916 Houston

Loading point

3301 / CT O&amp;M Corp Houston

Sending-/loading-ref.number

31127221

Recipient

Cust.-no.

15483

ScanDrill Inc.  
9395 HWY 2767  
TYLER TX 75708  
USA

Deliv./Uploading point

Recipient

Sender no. at shipping carrier

# Freight Order

Date

10-05-2016

Relation-no.

--	--	--

Shipping carrier

Carrier-no.

Phone

Fax

Page 1 von 1

Sender comment for the shipping carrier

Incoming date

Incoming time

Delivery-note-no. Packaging number	Quan.	Packaging	S	Contents	Net- weight LB	Gross- weight LB
Delivery(ies): 83352143  118448718	1	113 X 25.2 X 110.2 INCH		3" x 45ft, Choke and Kill Hose, WP 10K SALES TAX %8.25	1643	1,054
Total:		1	Volume / working width approx		Total:	1643 1,054

Prepayment of charges

Ex Works

Sales order no. / PO no.

SO: 880841 / PO: 143799

Cust. order number

143799

Accont assignmt

Means of transp. no.

Truck code

Disp. type

Truck (Subco

Acknowledgment of receipt of the goods recipient:

Shipment above complete and in  
Received in correct state.

Company stamp/signature

Driver's confirmation of reception

Shipment above complete and in  
Taken over in correct state.

Date

Time

Signature

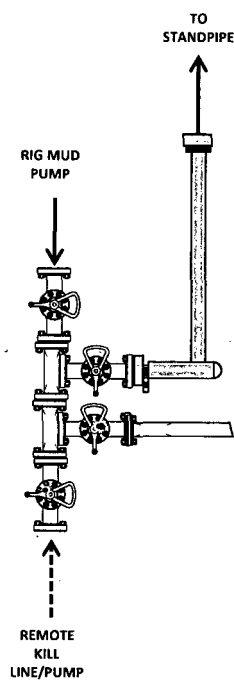
Vendor-no.

Sending-/Loading-Ref.number

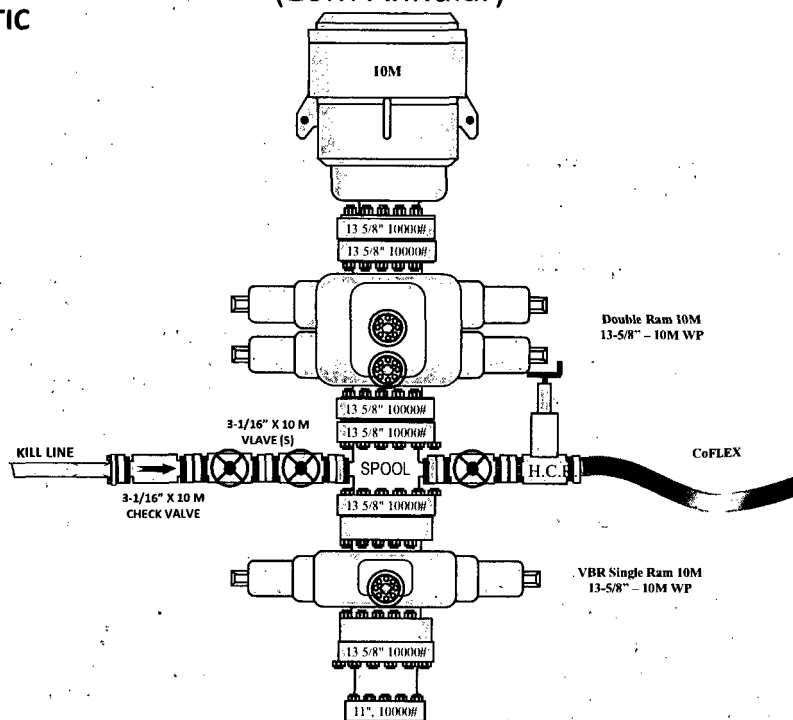


## 10M BOP Stack

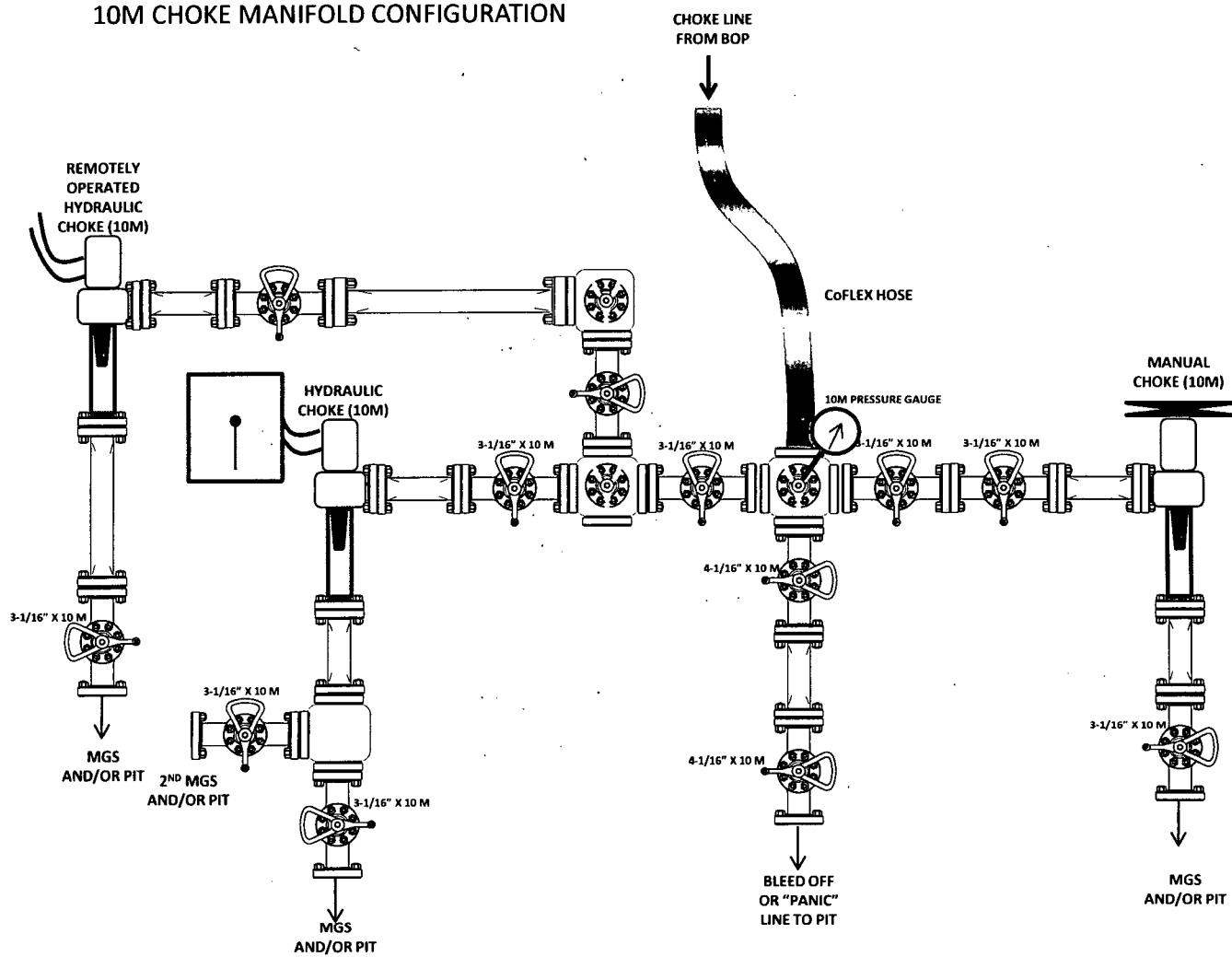
### 10M REMOTE KILL SCHEMATIC



## 10M BOP Stack (10M Annular)



# 10M CHOKE MANIFOLD CONFIGURATION





ContiTech

QUALITY CONTROL	No.: QC-DB- 351 / 2016
	Page : 1 / 88
Hose No.: 72879	Revision : 0
	Date: 05. September 2016.
	Prepared by : <i>András Kócska</i>
	Appr. by: <i>SSG</i>

# CHOKE AND KILL HOSE

id.: 3" 69 MPa x 13,72 m (45 ft)

## DATA BOOK

Purchaser: SCANDRILL

Purchaser Order No.: 143799

ContiTech Rubber Order No.: 543951

ContiTech Oil & Marine Corp. Order No.:  
4500795683 COM880841

**NOT DESIGNED FOR WELL TESTING**



ContiTech

CONTITECH RUBBER  
Industrial Kft.

No: QC-DB- 351 / 2016

Page: 5 / 88

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 1050	
PURCHASER: ContiTech Oil & Marine Corp.				P.O. N°: 4500795683	
CONTITECH RUBBER order N°: 543951		HOSE TYPE: 3" ID		Choke and Kill Hose	
HOSE SERIAL N°: 72879		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		2587		AISI 4130	
3 1/16" 10K API Swivel Flange end				AISI 4130	
Hub				AISI 4130	
3" coupling with		2584		AISI 4130	
3 1/16" 10K API b.w. Flange end				AISI 4130	
Not Designed For Well Testing					
API Spec 16 C 2 <sup>nd</sup> Edition- FSL2					
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	
30. August 2016.				ContiTech Rubber Industrial Kft. Quality Control Dept. <i>Robert Nikolic</i> <i>Yuan</i>	

ATTACHMENT OF QUALITY CONTROL  
INSPECTION AND TEST CERTIFICATE  
No: 1050.

CONTITECH RUBBER  
Industrial Kft.

No: QC-DB- 351 / 2016  
Page: 6 / 88

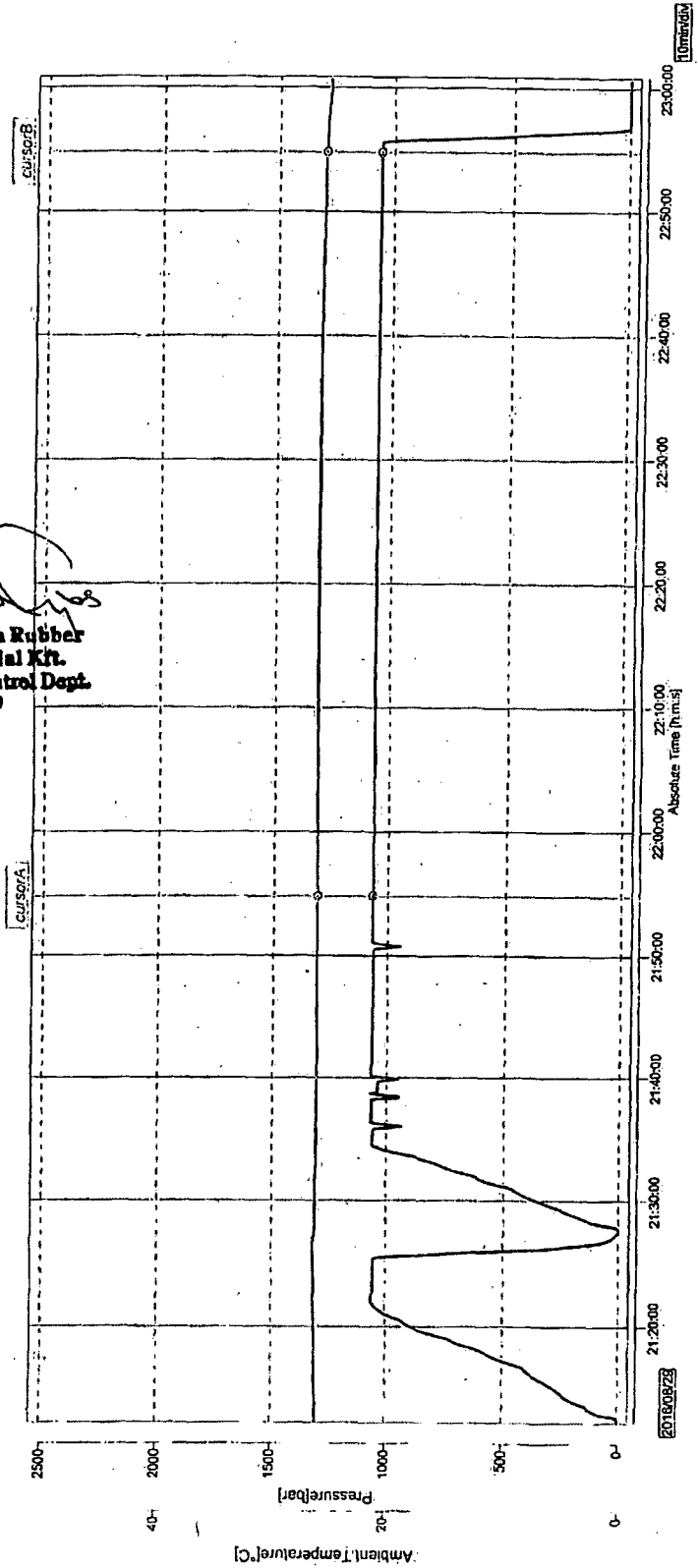
1/1

File Name : 014986\_72879.GEV, ...,014986\_72879.GEV  
File Message : 72879  
Device Type : GX10  
Serial No. : SSP606399  
Data Count : 1302  
Print Group : Press-Temp  
Print Range : 2016/08/29 21:12:25.000 - 2016/08/29 23:00:50.000  
Comment : 142056635

Sampling Int. : 5.000 sec  
Start Time : 2016/08/29 21:12:25.000  
Stop Time : 2016/08/29 23:00:50.000

Data No.	Cursor A	Cursor B	Difference
509	2016/08/29 21:12:25.000	2016/08/29 22:54:50.000	01:00:00.000
Tap Comment	Value A	Value B	Value B-A
Pressure[bar]	1058.16	1054.43	-13.73
Ambient Temperature[°C]	26.17	25.88	-0.29

*[Signature]*  
ContiTech Rubber  
Industrial Kft.  
Quality Control Dept.  
(3)





CONTITECH RUBBER  
Industrial Kft.

No: QC-DB- 351 / 2016

Page: 7 / 88

ContiTech

## Hose Data Sheet

CRI Order No.	543951
Customer	ContiTech Oil & Marine Corp.
Customer Order No	4500795683 COM880841
Item No.	1
Hose Type	Flexible Hose
<b>Standard</b>	<b>API SPEC 16C 2ND EDITION FSL2</b>
Inside dia in inches	3
Length	45 ft
Type of coupling one end	FLANGE 3.1/16" 10K API SPEC 6A TYPE 6BX, BUTT WELDED, BX154ST.ST. LINED R.GR. SOUR
Type of coupling other end	FLANGE 3.1/16" 10K API SPEC 17D SV SWIVEL FLANGE, BX154 ST.ST. LINED R.GR. 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	Yes
Safety wire rope	No
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

*Szabo S1*  
ContiTech Rubber  
Industrial Kft.  
QC2



ContiTech Fluid Technology

<b>ContiTech Oil &amp; Marine Corp. # 11535 Brittonmoore Park Dr., Houston, TX 77041-6916 USA</b>		<b>Delivery Note</b>	
ScanDrill Inc. 9395 HWY 2767 TYLER TX 75708		Document No.	<b>83352143</b>
		Document Date	<b>10/05/2016</b>
Transport-Details - Shipping		Customer Number	15483
		Customer VAT No.	
		Supplier Number	
		N° EORI:	FR41027953300021
		Purchase Order No.	143799
		Purchase Order Date	07/01/2016
		Sales Order Number	880841
		Sales Order Date	07/05/2016
		Unloading Point	
Conditions		<b>Page 1 of 3</b>	
Shipping Conditions	0 days		
Inco Terms	EXW Houston, TX		
	Ex Works		
		<b>Weights (Gross / Net)</b>	
		Total Weight	2,323 LB
		Net Weight	1,643 LB
 <b>Buyer: Joe Ward</b> <b>E-mail: jward@scandril.com</b> <b>Tel: 903.597.5368</b>  <b>Payment Terms:</b> 50% Due at order Placement 50% Due Prior to Dispatch  Rev 01 - 092116 - Sales Tax added to the order.			
<b>Item</b>	<b>Material/Description</b>	<b>Quantity</b>	<b>Weight</b>
10	HCK3FA45IPSI VS 3" x 45ft, Choke and Kill Hose, WP 10K End A: 3.1/16" 10K Flange, API Spec. 6A Type 6BX, Butt Welded, BX154 Stainless Steel 316 Lined Ring Groove - Sour End B: 3.1/16" 10K Flange, API Spec 17D SV Swivel Flange, BX154 Stainless Steel 316 Lined Ring Groove - Sour Standard: API SPEC 16C 2ND EDITION FSL2 - Monogrammed Working Pressure: 10000 psi Test Pressure: 15000 psi Fire Rated: No Armoured: Yes - Stainless Steel 316L Interlock Design Temperature: -20 to 100°C High Temperature Exposure / Survival @ 177 Deg C (internal in a kick situation) As Per API 16C B.12.5!	1 PC	1,643 LB

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

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

Managing Director  
(President)  
Zuzana Czovek

Bank: JPMorgan Chase,  
707 Travis St, 9 Floor N, Houston, TX 77002  
Account: 08100044552  
ABA/Routing: 021000021, ACH: 111000614





ContiTech Fluid Technology

<b>Conditions</b> Shipping Conditions 0 days Inco Terms EXW Houston, TX Ex Works		<b>Delivery Note</b> Document No. 83352143 Document Date 10/05/2016 Page 2 of 3	
<p>Brand Name: Continental ContiTech</p> <p>serial no:72879</p> <p>Supplied with: 2 x Safety Clamps 2 x Lifting Collars Double Eyed 2 x Safety Chains c/w Shackles Each End x 8ft</p> <p>Packing to ISPM-15 Heat Treated Packing type: Wooden Crate, Gross weight: 1056 kg / 2323 lbs Dimensions: 2870 x 640 x 2800 mm (L x W x H) 113 x 25.2 x 110.2 inch To be handled/shipped in a vertical position</p> <p>HTS# 4009.42.0050 ECCN: EAR99 COO: Hungary</p> <p>20 00TAX-SALES 1 PC 0 LB SALES TAX %8.25 Buyer: Joe Ward E-mail: jward@scandrift.com Tel: 903.597.5368</p> <p>Payment Terms: 50% Due at order Placement 50% Due Prior to Dispatch</p> <p>Rev 01 - 092116 - Sales Tax added to the order.</p> <p>Order/Item 880841/20 07/05/2016 Customer's PO no./item 143799</p>			
<b>Inner packages</b>			



ContiTech Fluid Technology

<b>Conditions</b>		<b>Delivery Note</b>	
Shipping Conditions	0 days	Document No.	83352143
Inco Terms	EXW Houston, TX	Document Date	10/05/2016
	Ex Works	Page 3 of 3	
<b>Quantity Packaging</b>		<b>Material</b>	<b>Charge</b>
1	113 X 25.2 X 110.2 INCH -Wooden crate	HCK3FA45IPSIVS	1
Package number	118448718		

(1) Ship-to party <b>ScanDrill Inc.</b> <b>9395 HWY 2767</b> <b>TYLER TX 75708</b>		(2) Unloading point - storage location - usage	
(3) Delivery note no. <b>83352143</b>  		(4) Vendor address (short name, plant, ZIP, city) <b>ContiTech Oil &amp; Marine Corp.</b> <b>11535 Brittmoore Park Drive</b> <b>Houston TX 77041-6916</b>	
(8) Supplier ref. no.			
(9) Quantity		(5) Net weight <b>1,643 LB</b>	(6) Gross weight <b>2,323 LB</b>
(12) ContiTech Sales order no.		(7) Number of packages <b>1</b>	
SN: 72879		(10) Description of delivery, service	
(13) Packing date <b>10/07/16</b>		(14) Engineering change status	
(15) Package no. <b>118448718</b>  		(16) Customer PO no. <b>143799</b>  	

Material label VDA 4902 Vers. 4

Sender/Vendor

Vendor-no.

ContiTech Oil & Marine Corp.  
11535 Brittmoore Park Drive  
77041-6916 Houston

Loading point

3301 / CT O&amp;M Corp Houston

Sending-/loading-ref.number

31127221

Recipient

Cust.-no.

15483

ScanDrill Inc.  
9395 HWY 2767  
TYLER TX 75708  
USA

Deliv./Uploading point

Recipient

Sender no. at shipping carrier

# Freight Order

Date

10-05-2016

Relation-no.

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Shipping carrier

Carrier-no.

Phone

Fax

Page 1 von 1

Sender comment for the shipping carrier

Incoming date

Incoming time

Delivery-note-no. Packaging number	Quan.	Packaging	S	Contents	Net- weight LB	Gross- weight LB
Delivery(ies): 83352143  118448718	1	113 X 25.2 X 110.2 INCH		3" x 45ft, Choke and Kill Hose, WP 10X SALES TAX %8.25	1643	1,054
Total:		1	Volume / working width approx		Total:	1643 1,054

Prepayment of charges

Ex Works

Sales order no. / PO no.

SO: 880841 / PO: 143799

Cust. order number 143799

Accont assignmt

Means of transp. no.

Truck code

Disp. type

Truck (Subco)

Acknowledgment of receipt of the gds recipient:

Shipment above complete and in  
Received in correct state.

Company stamp/signature

Driver's confirmation of reception

Shipment above complete and in  
Taken over in correct state.

Date

Time

Signature

Vendor-no.

Sending-/Loading-Ref.number



Sender/Vendor

Vendor-no.

ContiTech Oil & Marine Corp.  
11535 Brittmoore Park Drive  
77041-6916 Houston

Loading point

3301 / CT O&amp;M Corp Houston

Sending-/loading-ref. number

31127221

Recipient

Cust.-no.

15483

ScanDrill Inc.  
9395 HWY 2767  
TYLER TX 75708  
USA

Deliv./Uploading point

Recipient

Sender no. at shipping carrier

# Freight Order

Date

10-05-2016

Relation-no.

--	--	--

Shipping carrier

Carrier-no.

Phone

Fax

Page 1 von 1

Sender comment for the shipping carrier

Incoming date

Incoming time

Delivery-note-no. Packaging number	Quan.	Packaging	S	Contents	Net- weight LB	Gross- weight LB
Delivery(ies): 83352143  118448718	1	113 X 25.2 X 110.2 INCH		3" x 45ft, Choke and Kill Hose, WP 10K SALES TAX %8.25	1643	1,054
Total:		1	Volume / working width approx		Total:	1643 1,054

Prepayment of charges

Ex Works

Sales order no. / PO no.

SO: 880841 / PO: 143799

Cust. order number

143799

Acct assignmt

Means of transp. no.

Truck code

Disp. type

Truck (Subco)

Acknowledgmt of receipt of the gds recipient:

Shipment above complete and in  
Received in correct state.

Company stamp/signature

Driver's confirmation of reception

Shipment above complete and in  
Taken over in correct state.

Date

Time

Signature

Vendor-no.

Sending-/Loading-Ref. number



# Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	1145	13.375"	54.5	J55	STC	2.21	6.15	8.24
12.25"	0	12100	9.625"	47	HCL80	BTC	1.46	1.03	1.97
8.5	0	22,827	5.5"	23	P110	BTC	1.74	2.05	2.45
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

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

# Casing Program

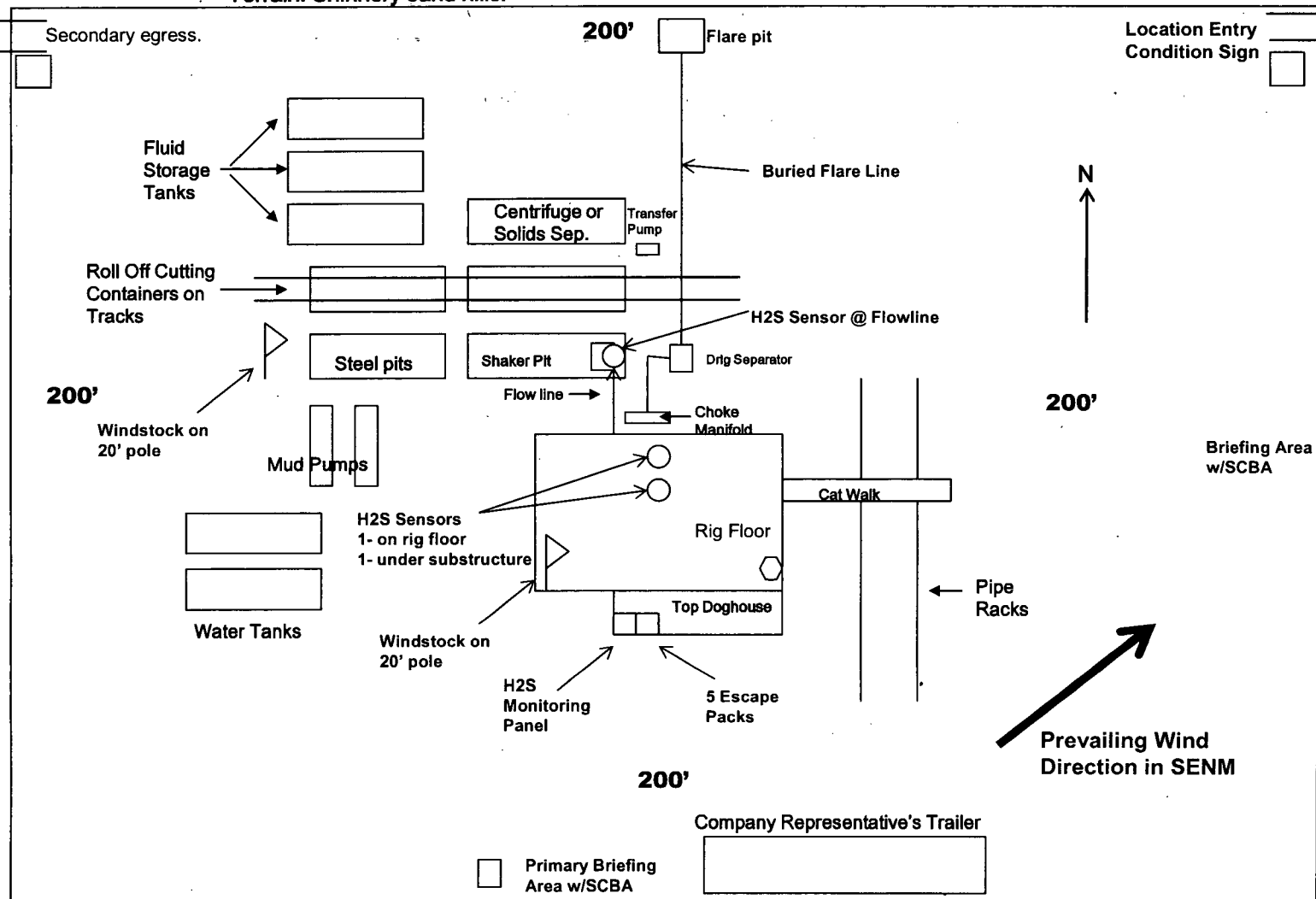
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All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

COG Operating LLC  
H<sub>2</sub>S Equipment Schematic  
Terrain: Shinnery sand hills.

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



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 #702H	30-025-	C-30-24S-35E	210' FNL & 2100' 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

# COG Operating, LLC - Fascinator Fed Com 702H

## 1. Geologic Formations

TVD of target	12,862' EOL	Pilot hole depth	NA
MD at TD:	22,827'	Deepest expected fresh water:	207'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards
Quaternary Fill	Surface	Water	
Rustler	1076	Water	
Top of Salt	1260	Salt	
Base of Salt	5108	Salt	
Lamar	5434	Salt Water	
Bell Canyon	5457	Salt Water	
Cherry Canyon	6432	Oil/Gas	
Brushy Canyon	8040	Oil/Gas	
Bone Spring Lime	9283	Oil/Gas	
U. Avalon Shale	9633	Oil/Gas	
L. Avalon Shale	9874	Oil/Gas	
1st Bone Spring Sand	10442	Oil/Gas	
2nd Bone Spring Sand	11148	Oil/Gas	
3rd Bone Spring Sand	12098	Oil/Gas	
Wolfcamp	12506	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	1145	13.375"	54.5	J55	STC	2.21	6.15	8.24
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8.5	0	22,827	5.5"	23	P110	BTC	1.74	2.05	2.45
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

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

### 3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft <sup>3</sup> / sack	H <sub>2</sub> O gal/sk	500# Comp Strength (hours)	Slurry Description
Surf.	500	13.5	1.75	9	12	Lead: Class C + 4% Gel
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl <sub>2</sub>
Inter. Stage1	1000	11	2.8	19	48	Lead: NeoCem
	300	16.4	1.1	5	8	Tail: Class H
DV Tool @ 5440'						
Inter. Stage2	750	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
	2960	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results

Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 <sup>st</sup> Intermediate	0'	50%
Production	11,100'	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.

## 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	

## 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8365 psi at 12862' 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 <sub>2</sub> S) monitors will be installed prior to drilling out the surface shoe. If H <sub>2</sub> 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 <sub>2</sub> S is present
Y	H <sub>2</sub> S Plan attached

## 8. Other Facets of Operation

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

x	H <sub>2</sub> S Plan.
x	BOP & Choke Schematics.
x	Directional Plan
x	5M Annular Variance

## 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"		10M
Open-hole	-		

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

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

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

**Choke**

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



APD ID: 10400028703

Submission Date: 03/22/2018

Highlighted data  
reflects the most  
recent changes

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 702H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

### Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

COG\_FASCINATOR\_702H\_Exist\_Rd\_20180322094422.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\_702H\_MapsPlats\_20180322094435.pdf

New road type: TWO-TRACK

Length: 3079

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:** 702H

**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\_702H\_1Mile\_Data\_20180322094448.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:** 702H

**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\_702H\_BrineH2O\_20180322094504.pdf

COG\_Facinator\_702H\_FreshH2O\_20180322094558.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:** 702H

**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:** 702H

**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:** 702H

### Section 8 - Ancillary Facilities

**Are you requesting any Ancillary Facilities?:** YES

**Ancillary Facilities attachment:**

COG\_Fascinator\_702H\_GCP\_20180322094641.pdf

**Comments:** GCP Attached.

### Section 9 - Well Site Layout

**Well Site Layout Diagram:**

COG\_Fascinator\_702H\_Prod\_Facility\_20180322094700.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:** 601H, 701H AND 702H

**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

**Road proposed disturbance (acres):** 0.99

**Powerline proposed disturbance (acres):** 0

**Pipeline proposed disturbance (acres):** 0

**Other proposed disturbance (acres):** 0

**Total proposed disturbance:** 4.66

**Well pad interim reclamation (acres):** 0.15

**Road interim reclamation (acres):** 0.99

**Powerline interim reclamation (acres):** 0

**Pipeline interim reclamation (acres):** 0

**Other interim reclamation (acres):** 0

**Total interim reclamation:** 1.14

**Well pad long term disturbance (acres):** 3.35

**Road long term disturbance (acres):** 0.99

**Powerline long term disturbance (acres):** 0

**Pipeline long term disturbance (acres):** 0

**Other long term disturbance (acres):** 0

**Total long term disturbance:** 4.34

**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:** 702H

**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:** 702H

**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\_702H\_ClosedLoop\_20180322094721.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:** 702H

### 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\_702H\_Certification\_20180322095349.pdf

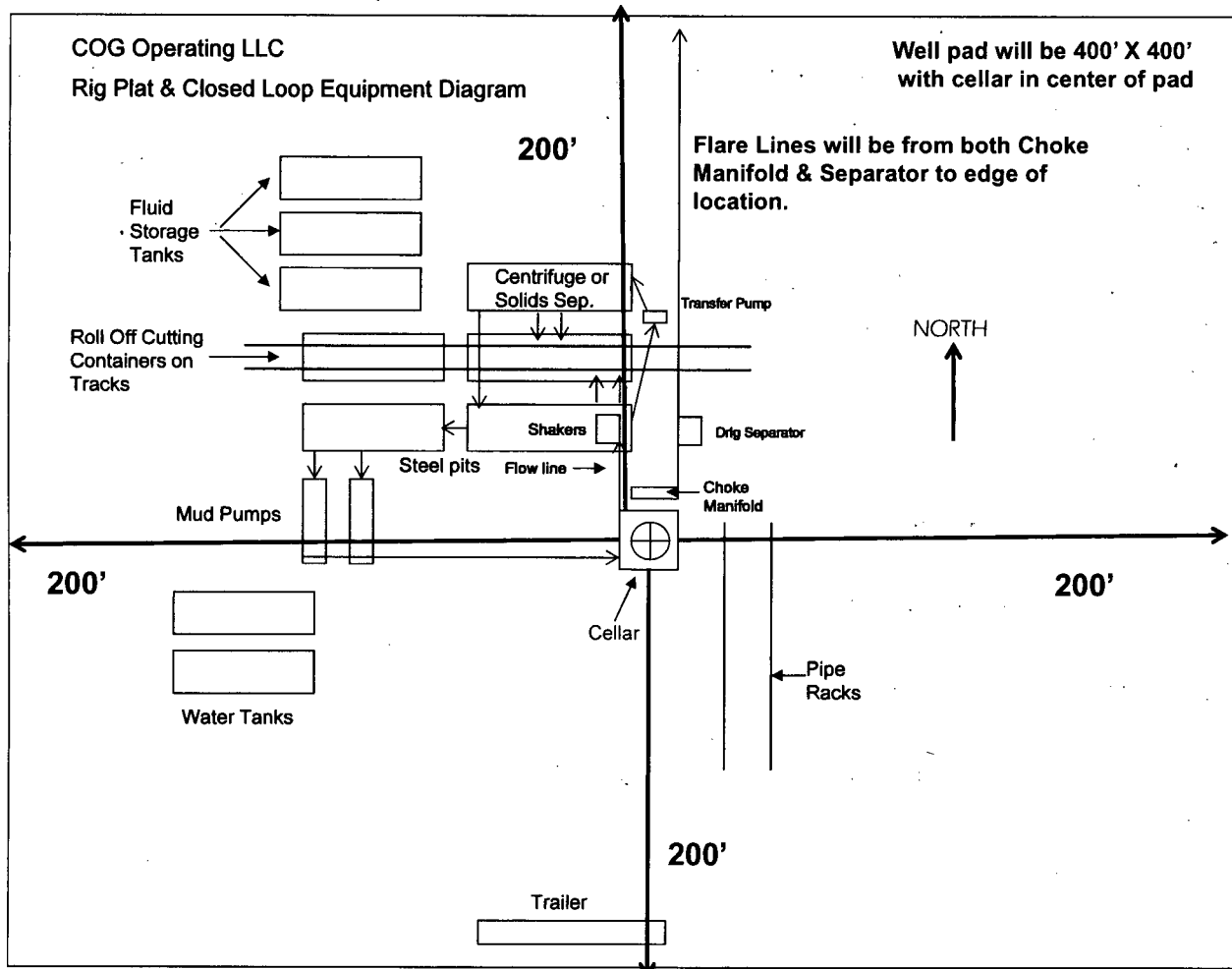


Exhibit 1

"I further certify that COG will comply with Rule 19.15.17 NMAC by using a Closed Loop System."

*Surface Use Plan*  
*COG Operating LLC*  
*Fascinator Federal Com 702H*  
*SHL: 210' FNL & 2100' FWL      UL C*  
*Section 30, T24S, R35E*  
*BHL: 200' FSL & 1930' FWL      UL N*  
*Section 31, T24S, R35E*  
*Lea County, New Mexico*

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### **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 12<sup>th</sup> 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](mailto:mreyes1@concho.com)

Field Representative (if not above signatory): Rand French

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



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

## PWD Data Report

08/07/2018

### 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:

Assigned injection well API number?

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Injection well name:

Injection well API number:

### **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

08/07/2018

### 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: