HOBBS O					MIK
AUG 1 6 2018	Carlon			FORM	APPROVED SURF
(March 2012) RECEIVED S DEPARTMENT OF BUREAU OF LAN	STATES THE INTERIOR D MANAGEMENT	ad Rield	l Om	5. Lease Serial No.	October 31, 2014
APPLICATION FOR PERM	IT TO DRILL O	R REENTER	hs	• 6. It Indian, Allotee	or Inbe Name
la. Type of work: DRILL	REENTER			7 If Unit or CA Agre	ement, Name and No.
lb. Type of Well: 🔽 Oil Well 🔲 Gas Well 🛄 Ot	<u>h</u> er Si	ingle Zone 🔲 Multij	ple Zone 🦯	8. Lease Name and T FASCINATOR FEL	Well No. 322255 DERAL COM 701H
2. Name of Operator COG OPERATING LLC	29137)	ĩ	\square	9. API Well-No.	- 46111
3a. Address 600 West Illinois Ave Midland TX 7970	3b. Phone No. (432)683-	0. (include area code) 7443		10 Field and Pool, or I WILDCAT / WOLF	Exploratory 48098 GAMP WOLFA
 Location of Well (Report location clearly and in accordan At surface NENW / 210 FNL / 2160 FWL / LAT At proposed prod. zone SESW / 200 FSL / 2310 F 	nce with any State requiren 32.195173 / LONG - WL / LAT 32.167269	nents.*) 103.408179	3	11. Sec., T. R. M. or B SEC 30 / T24S / R.	lk. and Survey or Area 35E / NMP
 Distance in miles and direction from nearest town or post miles 	office*			12. County or Parish LEA	13. State NM
15. Distance from proposed* location to nearest 200 feet property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of a 1961.36	acres in lease	17. Spacin 320	g Unit dedicated to this v	veli
 Distance from proposed location* to nearest well, drilling, completed, 1226 feet applied for, on this lease, ft. 	19: Propose 12761 fee	d Depth tt / 22726 feet	20. BLM/ FED: NI	BIA Bond No. on file MB000215	
Elevations (Show whether DF, KDB, RT, GL, etc.) 3345 feet	22 Approxi 07/01/20:	imate date work will sta 18	rt*	23. Estimated duration 30 days	n
	24. Atta	chments			
 Well plat certified by a registered surveyor. A Drilling Plan. 	or Onshore Oil and Gas	4. Bond to cover the litern 20 above).	nached to the he operatio	is form: ns unless covered by an	existing bond on file (see
3. A Surface Use Plan (if the location is on National Fores SUPO must be filed with the appropriate Forest Service O	st System Lands, the office).	 Operator certific Such other site BLM. 	cation specific info	ormation and/or plans as	may be required by the
25. Signature (Electronic Submission)	Name Mayt	(Printed/Typed) e Reyes / Ph: (575)	748-6945		Date 03/22/2018
itle Regulatory Analyst				<u></u>	
Approved by (Signature) (Electronic Submission)	Name Chris	(Printed/Typed) topher Walls / Ph: (575)234-2	234	Date 08/07/2018
itle Petroleum Engineer	Office CAR	: LSBAD			
Application approval does not warrant or certify that the appl conduct operations thereon./ Conditions of approval, if any, are attached.	licant holds legal or equi	itable title to those righ	ts in the sub	ject lease which would e	ntitle the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m states any false, fictitious or fraudulent statements or represer	nake it a crime for any p nations as to any matter w	person knowingly and within its jurisdiction.	willfully to n	nake to any department o	r agency of the United
(Continued on page 2) GCP Rec 08/16/18			-1	*(Instr	ructions on page 2)

APPROVED WITH CONDITIONS

Doublesided

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.

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.

NOTICES

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

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

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

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

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

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

(Continued on page 3)

and a second

(Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

1. SHL: NENW / 210 FNL / 2160 FWL / TWSP: 24S / RANGE: 35E / SECTION: 30 / LAT: 32.195173 / LONG: -103.408179 (TVD: 0 feet, MD: 0 feet) PPP: NENW / 0 FNL / 2310 FWL / TWSP: 24S / RANGE: 35E / SECTION: 31 / LAT: 32.180952 / LONG: -103.407662 (TVD: 12684 feet, MD: 17500 feet) PPP: NESW / 2640 FSL / 2310 FWL / TWSP: 24S / RANGE: 35E / SECTION: 30 / LAT: 32.188351 / LONG: -103.407679 (TVD: 12646 feet, MD: 14900 feet) PPP: NENW / 330 FNL / 2310 FWL / TWSP: 24S / RANGE: 35E / SECTION: 30 / LAT: 32.194844 / LONG: -103.407694 (TVD: 12616 feet, MD: 12900 feet) BHL: SESW / 200 FSL / 2310 FWL / TWSP: 24S / RANGE: 35E / SECTION: 31 / LAT: 32.167269 / LONG: -103.407694 (TVD: 12761 feet, MD: 22726 feet)

BLM Point of Contact

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

Review and Appeal Rights

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

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

Application Data Report

08/07/2018

APD	ID:	1040	0028700)

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Type: OIL WELL

Submission Date: 03/22/2018

Well Number: 701H Well Work Type: Drill

Highlighted data. referisite intest recentusternows

Show Final Text

Section 1 - General		
APD ID: 10400028700	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 penetra	ted 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 agreen	nent:
Agreement number:		
Agreement name:		
Keep application confidential? YES		
Permitting Agent? NO	APD Operator: COG OPI	ERATING LLC
Operator letter of designation:		
Operator Info		
Operator Organization Name: COG OPER/	ATING LLC	
Operator Address: 600 West Illinois Ave		
Operator PO Box:		Zip : 79701
Operator City: Midland State:	тх	
Operator Phone: (432)683-7443		
Operator Internet Address: RODOM@CON	ICHO.COM	

Section 2 - Well Information

Well in Master Development Plan? NO	Mater Development Plan name:	
Well in Master SUPO? NO	Master SUPO name:	
Well in Master Drilling Plan? NO	Master Drilling Plan name:	
Well Name: FASCINATOR FEDERAL COM	Well Number: 701H	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

Well Name: FASCINATOR FEDERAL COM

Well Number: 701H

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Desc	cribe d	other	miner	als:															
ls th	e prop	oosed	well	in a H	elium	prod	uctio	n area?	N Use E	Existing W	ell Pa	d? NO	N	ew s	surface o	listuri	bance	?	
Туре	e of W	ell Pa	d: MU	ILTIPL	.E WE	ELL			Multi	ple Well P	ad Nai	ne:	N	Number: 601H, 701H AND					
Well	Class	s: HOł	RIZON	ITAL					FASC Numl	CINATOR F	FEDER s:	AL CO	M 70)2H					
Well	Work	Туре	: Drill									;							
Well	Type:	OIL	NELL											•					
Desc	ribe \	Neli T	ype:																
Well	Well sub-Type: EXPLORATORY (WILDCAT)																		
Desc	Describe sub-type:																		
Dista	ance t	o tow	n : 12	Miles			Dis	tance to	o nearest v	vell: 1226	FT	Dist	ance t	o le	ease line	: 200	FT		
Rese	ervoir	well s	spacir	ng ass	igneo	d acre	s Me	asurem	ent: 320 A	cres		•							
Well	Vell plat: COG_Fascinator_701H_C102_20180322091034.pdf																		
Well	work	start	Date:	07/01	/2018				Durat	t ion: 30 D/	AYS								
[
	Section 3 - Well Location Table																		
Surv	еу Туј	pe: RI	ECTA	NGUL	AR														
Desc	ribe S	Survey	у Туро	Ð:		4													
Datu	m: NA	D83							Vertic	al Datum:	NAVE	88							
Surv	ey nu	mber:																	
	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	QM	TVD	
SHL Leg #1	210	FNL	216 0 ⁻	FWL	24S	35E	30	Aliquot NENW	32.19517 3	- 103.4081 79	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	334 5	0	0	
KOP Leg #1	210	FNL	216 0	FWL	24S	35E	30	Aliquot NENW	32.19517 3	- 103.4081 79	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	334 5	0	0	
PPP Leg #1	330	FNL	231 0	FWL	24S	35E	30	Aliquot NENW	32.19484 4	- 103.4076 94	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	- 927 1	129 00	126 16	

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

APD ID: 10400028700

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Number: 701H Well Work Type: Drill

Submission Date: 03/22/2018

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08/07/2018

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Drilling Plan Data Report

teleent ofteinges:

Show Final Text

Well Type: OIL WELL

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID I	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1	UNKNOWN	3345	0	0.	· · · · · · · · · · · · · · · · · · ·	NONE	No
2	RUSTLER	2270	1076	1076	<u></u>	NONE	No
3	TOP SALT	2086	1260	1260	SALT	NONE	No
4	BOTTOM SALT	-1762	5108	5108	ANHYDRITE	NONE	No
5	LAMAR	-2088	5434	5434	LIMESTONE	NATURAL GAS,OIL	No
6	BELL CANYON	-2111	5457	5457		NONE	No
7	CHERRY CANYON	-3086	6432	6432		NATURAL GAS,OIL	No
8	BRUSHY CANYON	-4694	8040	8040		NATURAL GAS,OIL	No
9	BONE SPRING LIME	-5937	9283	9283	SANDSTONE	NATURAL GAS,OIL	· No
10	UPPER AVALON SHALE	-6287	9633	9633	·····	NATURAL GAS,OIL	No
11		-6528	9874	9874		NATURAL GAS,OIL	No
12	BONE SPRING 1ST	-7096	10442	10442		NATURAL GAS,OIL	No
13	BONE SPRING 2ND	-7802	11148	11148	<u> </u>	NATURAL GAS,OIL	No
14	BONE SPRING 3RD	-8752	12098	12098 .		NATURAL GAS,OIL	No
15	WOLFCAMP	-9160	12506	12506	SHALE	NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Well Name: FASCINATOR FEDERAL COM

Well Number: 701H

Pressure Rating (PSI): 10M Rating Depth: 12761

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 **Reguesting 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_701H_10M_Choke_20180322090452.pdf

BOP Diagram Attachment:

COG_Fascinator_701H_10M_BOP_20180322090459.pdf

COG_Fascinator_701H_Flex_Hose_20180723130141.pdf

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_701H_5M_Choke_20180322090529.pdf

BOP Diagram Attachment:

COG_Fascinator_701H_5M_BOP_20180322090535.pdf

COG_Fascinator_701H_Flex_Hose_20180723130153.pdf

Well Name: FASCINATOR FEDERAL COM

Well Number: 701H

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	INTERMED IATE	12.2 5	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	PRODUCTI ON	8.5	5.5	NEW	API	N	0	22726	0	22726	-9411	- 29318	22726	P- 110	23	OTHER - BTC	1.75	2.07	DRY	2.47	DRY	2.47

Casing Attachments

Casing ID: 1

String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

.

Casing Design Assumptions and Worksheet(s):

COG_Fascinator_701H_Casing_Plan_20180322090620.pdf

Well Name: FASCINATOR FEDERAL COM

Well Number: 701H

sing Attachm	ents			•	
Casing ID:	2 5		TE		
Inspection [ocument:				
Spec Docun	nent:				
Tapered Stri	ng Spec:				
Casing Desi	gn Assumptio	ns and Worksheet(s):			
COG_I	ascinator_701	H_Casing_Plan_2018032	2090628.pdf		
Casing ID:	3 S	itring Type:PRODUCTIO	N		
Inspection D	ocument:				
Spec Docum	nent:				
Tapered Stri	ng Spec:				
Casing Desi	gn Assumptio	ns and Worksheet(s):			

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COG_Fascinator_701H_Casing_Plan_20180322090647.pdf

Section	4 - Ce	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	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	2227 6	400	2	12.7	800	35	Lead: 35:65:6 H BLEND	As needed

Well Name: FASCINATOR FEDERAL COM

Well Number: 701H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		0	2227 6	2930	1.24	14.4	3633	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.

1

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

	Circ	ulating Mediu	um Ta	able							
Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1210 0	2227 6	OIL-BASED MUD	10.5	12.5							ОВМ
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

Page 5 of 7

Well Name: FASCINATOR FEDERAL COM

Well Number: 701H

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: 8295

Anticipated Surface Pressure: 5521.24

Anticipated Bottom Hole Temperature(F): 180

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

COG_Fascinator_701H_H2S_Schem_20180322090914.pdf COG_Fascinator_701H_H2S_SUP_20180322090923.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

 $COG_Fascinator_701H_Direct_Plan_20180322090949.pdf$

COG_Fascinator_701H_AC_Rpt_20180322090955.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

COG_Fascinator_701H_Drill_Prog_20180716083224.pdf COG_Fascinator_701H_GCP_20180716083230.pdf

Other Variance attachment:

COG_5M_Annular_Variance_WCP_20180322084749.pdf

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





10M BOP Stack









ContiTech

QUALITY CONTROL	No.: QC-DB- 351 / 2016						
	Page : 1 / 88						
Hose No.:	Revision : 0						
72879	Date: 05. September 2016.						
	Prepared by : notur Viceolo						
	Appr. by:						

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 RUBBER	No: QC-DB- 351 / 2016			
Industrial Kft.	Page:	5 / 88		

ContiTech

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE					CERT. Nº:		1050	
PURCHASER:	ContiTech	Oil & Marine C	orp.		₽.O. №:		4500795683	
CONTITECH RUBBER order N	•: 54395 1	HOSE TYPE:	3"	ID		Choke an	d Kill Hose	
HOSE SERIAL Nº:	72879	NOMINAL / ACT	TUAL LI	ENGTH:		13,72 n	n / 13,80 m	
W.P. 69,0 MPa 10	0000 psi	T.P. 103,5	MPa	1500	io psi	Duration:	60	min.
Pressure test with water at ambient temperature	Pressure test with water at ambient temperature See attachment (1 page)							
COUPLINGS Typ	96	Serial	N°	ata www.mit	Qui	ality	Heat Nº	
3" coupling with)	2587	7		AISI	4130	J5251	
3 1/16" 10K API Swivel F	lange end				AISI	4130	036809	
Hub				AISI 4130		J6433		
3" coupling with	<u>ו</u>	2584	ŀ		AISI 4130		J5251	
3 1/16" 10K API b.w. Fla	ange end			AISI		4130	62580	
Not Designed For Well Testing API Spec 16 C 2 nd Edition– FSL2 Temperature rate:"B"								
WE CERTIFY THAT THE ABOVE	HOSE HAS BE			CCORDA	NCE WIT	H THE TERM	S OF THE ORDER	
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: 30. August 2016. 					yaen Cig	\$		

ContiTech Rubber Industrial Kft. | Budapesti úl 10. H-6728 Szeged | H-6701 P.O.Box 152 Szeged, Hungery Phone: +36 62 568 737 | Fax: +38 62 568 738 | e-mail: Info@fluid.contlitech.hu | Internet: www.contilech-rubber.hu; www.contilech.hu The Court of Caongrad County as Registry Court | Registry Court No: Cg.08-09-002502 | EU VAT No: HU11087209 Bank data Commerzbenk Zrt., Budepest | 14220108-28830003 ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE No: 1050

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CONTITECH RUBBER	No: QC-DB- 351 / 2016			
Industrial Kft.	Page:	6 / 88		





CONTITECH RUBBER	No: QC-DB- 351 / 2016				
Industrial Kft.	Page:	7 / 88			

ContiTech

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Hose Data Sheet

CRI Order No.	543951
Customer	ContiTech Oil & Marine Corp.
Customer Order No	4500795683 COM880841
Item No.	1
Ноѕе Туре	Flexible Hose
Standard	API SPEC 16C 2ND EDITION FSL2
Inside dia in inches	3
Length	45 ft
Type of coupling one end	FLANGE 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	
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

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ontiTech Rubber Industrial Kft. QC 2

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ContiTech Fluid Technology

ContiTech O	Marine Corp. # 1153	Brittmoore Park Dr., Houston, TX 77041-6916 USA	Delivery Note	
		Document No.	83352143	
ScanDrill Inc.		Document Date	10/05/2016	
9395 H TYLER	NWY 2767 TX 75708		Customer Number Customer VAT No. Supplier Number	15483
			N° EORI: Purchase Order No	FR41027953300021 143799
Transport-Details - Shipping		Purchase Order Date Sales Order Number Sales Order Date	07/01/2016 880841 07/05/2016	
			Unicading Point	
Conditi	ons		Page 1 of 3	i
Inco Te	ig Conditions erms	EXW Houston, TX EXW Works	-Weights (Gross / Ne Total Weight Net Weight	t) 2,323 LB 1,643 LB
	Buyer: Joe Ward E-mail: jward@se Tel: 903.597.536	candrill.com 8	······································	
	Payment Terms:			
	50% Due at orde 50% Due Prior to	r Placement Dispatch		
	Rev 01 - 092116	- Sales Tax added to the order.		
ltem	Material/Des	cription	Quantity	Weight
10	HCK3FA45IP	SIVS	1 PC	1,643 LB
	3" x 45ft, Cho	ke and Kill Hose, WP 10K		
	End A: 3.1/16" 10	K Flange, API Spec. 6A Type 6BX, Butt Welded) BX154	
	Stainless Steel 3	16 Lined Ring Groove - Sour		
,	End B: 3.1/16" 10	K Flange, API Spec 17D SV Swivel Flange, BX1	154	
	Standard: API SF	To Lined Ring Groove - Sour PEC 16C 2ND EDITION FSL2 - Monogrammed		
	Working Pressure	e: 10000 psi		
	Test Pressure: 15	5000 psi		
	Fire Rated: No			
	Armoured: Yes -	Stainless Steel 316L Interlock		
	Design Temperat	ure: -20 to 100°C		
	High Temperature	e Exposure / Survival @ 177 Deg C (internal in a	kick	
<u> </u>	situation) As Per-	API 160: B.12.5!		

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 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



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Loonations		Delivery Note	
Shipping Conditions	0 days	Document No.	83352143
Inco Terms	EXW Houston, TX	Document Date	10/05/2016
	Ex Works	Page 2	inf 2
		rayo 2	
l			
l			
Brand Name: Cont	Inental ContiTech	I	
1-1			
senal no:/20/9			
1. I			
Supplied with:			
2 x Safety Clamps			
2 x Lifting Collars D	Jouble Eyed		
2 x Safety Chains o	c/w Shackles Each End x 8ft		
Packing to ISPM-1	5/Heat Treated		
Packing type: Woo	oden Crate.		
Gross weight: 1056	ð 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/ship	ped in a vertical position		
HTS# 4009.42.005	0		
ECCN: EAR99	-		
COO: Hungary			
20 00TAX-SALES		1 PC	0 LB
SALES TAX %	8.25		
Buver: Joe Ward			
E-mail: jward@scar	ndrill.com		
Tel: 903.597.5368			
Payment Terms			
50% Due at order F	Planement		
50% Due Prior to D	Disoatch		
••••••••••••••••••••••••••••••••••••••			
Rev 01 - 092116 - 5	Sales Tax added to the order.		
Order/Item 880841/	/20 07/05/2016		

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Conditions Shipping Conditions Inco Terms	0 days EXW Houston, TX Ex Works	· · · · · · ·	Delivery Note Document No. Document Date Page 3 of	83352143 10/05/2016 3
Quantity Packaging 1 113 X 25.2 Package.number 1	X 110.2 INCH -Wooden crate 18448718	Materia HCK3F	al FA45IPSIVS	Charge 1
			· :	



Materiai label VDA 4902 Vers. 4

7

10M BOP Stack







ContiTech

QUALITY CONTROL	No.: QC-DB- 351 / 2016			
	Page: 1 / 88			
Hose No.:	Revision : 0			
72879	Date: 05. September 2016.			
	Prepared by : Nohut Ni 20/10			
	Appr. by:			

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 Rubber Industrial Kft. | Budepesti út 10. H-6728 Szeged | H-6701 P.O.Box 152 Szeged, Hungery Phone: +36 62 566 737 | Fax: +36 62 566 738 | e-mall: Info@filuid.contilech.hu | Internet: www.contitech.rubber.hu; www.contitech.hu The Court of Csongréd County as Registry Court | Registry Court No: Cg.08-09-002502 | EU VAT No: HU11087209 Bank date Commerzbank Zru, Budepest | 14220108-26830003



CONTITECH RUBBER	No: QC-DB- 351 / 2016			
Industrial Kft.	Page:	5 / 88		

ContiTech

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. Nº:		1050		
PURCHASER:	PURCHASER: ContiTech Oil & Marine Corp.				P.O. Nº:		4500795683	
CONTITECH RUBBER order N	•: 5439 51	HOSE TYPE:	3"	ID		Choke an	d Kill Hose	
HOSE SERIAL Nº:	72879	NOMINAL / AC	TUAL LE	ENGTH:		13,72 n	n / 13,80 m	
W.P. 69,0 MPa 10		T.P. 103,5	MPa	1500	0 psi	Duration:	60	min.
Pressure test with water at ambient temperature	Pressure test with water at ambient temperature See attachment (1 page)							
COUPLINGS Ty	90	Serial	N°		Qu	ality	Heat N°	
3" coupling with	ז	258	7		AISI	4130	J5251	
3 1/16" 10K API Swivel F	lange end	:			AISI	4130	036809	
Hub					AISI	4130	J6433	
3" coupling with	 ו	2584	4		AISI	4130	J5251	
3 1/16" 10K API b.w. Fl	ange end				AISI	41 30	62580	
Not Designed For Well Testing API Spec 16 C 2 nd Edition– FSL2 Temperature rate:"B"								
WE CERTIFY THAT THE ABOVE INSPECTED AND PRESSURE T	E HOSE HAS BE ESTED AS ABO	EN MANUFACTUR	RED IN A	CCORDA RESULT.	NCE WITI	H THE TERM	S OF THE ORDER	
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.								
	(GIN HUN	GARY/El	J			
Date: 30. August 2016.	Inspector		Quality	y Control	Cont In Qualit	iTech Rubb fustrial KR. y Control De ()_()	Youn Ci	5

ContiTech Rubber Industrial Kft. | Budapesti út 10. H-6728 Szeged | H-6701 P.O.Box 152 Szeged, Hungery Phone: +36 62 566 737 | Fax: +36 62 566 738 | e-mail: Info@fluid.contitech.hu | Internet: www.contitech-rubber.hu; www.contitech.hu The Court of Csongréd County as Registry Court Registry Court No: Cg.08-09-002502 | EU VAT No: HU11087209 Bank data Commerzbank Zrt., Budepest | 14220108-28630003 ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE No: 1050

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CONTITECH RUBBER	No: QC-DB- 351 / 2016			
Industrial Kft.	Page:	6 / 88		





CONTITECH RUBBER	No: QC-	DB- 351 / 2016
Industrial Kft.	Page:	7 / 88
	ContiTec	ch 🗌

Hose Data Sheet

CRI Order No.	543951
Customer	ContiTech Oil & Marine Corp.
Customer Order No	4500795683 COM880841
Item No.	1
Ноѕе Туре	Flexible Hose
Standard	API SPEC 16C 2ND EDITION FSL2
Inside dia in inches	3
Length	45 ft
Type of coupling one end	FLANGE 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	
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

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ContiTech Rubber Industrial Kft. QC 2

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ContiTech Fluid Technology

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ContiTech Q	II & Marine Corp. # 11535 E	Brittmoore Park Dr., Houston, TX 77041-6916 USA	Delivery Note	
-			Document No.	83352143
ScanD	rill Inc.		Document Date	10/05/2016
9395 H	WY 2767		Customer Number	15483
TILER	1X /5/08		Customer VAT No.	
			Supplier Number	
			N° EORI:	FR41027953300021
l			Purchase Order No.	143799
Transno	nt-Details - Shin	ning	Purchase Order Date	07/01/2016
lingushc	nt-Details - Onipi	ping	Sales Order Number	880841
			Sales Order Date	07/05/2016
			Unloading Point	
Conditi		· · · · · · · · · · · · · · · · · · ·	Page 1 of 3	
Shinnin	uns a Conditions	0 davs		
Inco Te	erms	EXW Houston, TX	Weights (Gross / Net)	· · · · · · · · · · · · · · · · · · ·
		Ex Works	Total Weight	2.323 LB
			Net Weight	1,643 LB
	Payment Terms: 50% Due at order a 50% Due Prior to L Rev 01 - 092116 -	Placement Dispatch Sales Tax added to the order.		
ltem	Material/Desci	ription	Quantity	Weight
10	HCK3FA45IPS	IVS	1 PC 1	,643 LB
	3" x 45ft, Choke	e and Kill Hose, WP 10K		
	End A: 3.1/16" 10k	K Flange, API Spec. 6A Type 6BX, Butt W	/elded, BX154	
	Stainless Steel 316	8 Lined Ring Groove - Sour		
	End B: 3.1/16" 10K	K Flange, API Spec 17D SV Swivel Flange	e, BX154	
	Stainless Steel 316	6 Lined Ring Groove - Sour		
	Standard: API SPE	EC 16C 2ND EDITION FSL2 - Monogram	imed	
	vvorking Pressure:			
	Fire Pated: No	ion hai		
	Amourady Vec - 9	tainless Steel 3161 Interlock		1
	Design Temperatur			
	High Temperature	Exposure / Survival @ 177 Deg C (intern:	al in a kick	
	situation) As Per A	PI 16C B.12.5		

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

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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



Conditions Shipping Conditions Inco Terms		0 days EXW Houston, TX Ex Works	Delivery Note Document No. Document Date Page 2 of 2	83352143 10/05/2016 3
	Brand Name: Co	ntinental ContiTech		
	serial no:72879			
	Supplied with:	-		
	2 x Salety Gamp	S Devela Evad		
	2 x Ching Collars	s c/w Shackles Each End x 8ft		
	Packing to ISPM-	15 Heat Treated		
	Packing type: Wo	poden Crate,		
	Gross weight: 10!	56 kg / 2323 lbs		
	Dimensions: 2870	0 x 640 x 2800 mm (L x W x H)		
	113 x 25.2 x 110.	2 inch		
	.To be handled/sh	ipped in a vertical position		
	HTS# 4009.42.00	950		
	ECCN: EAR99			
	COO: Hungary			
20	00TAX-SALES	6	1 PC	0 LB
	SALES TAX %	68.25		
	Buyer: Joe Ward			•
	E-mail: jward@sc Tel: 903.597.5368	andrill.com 3		
	Payment Terms:			
	50% Due at order	Placement.		
	50% Due Prior to	Dispatch		
	Rev 01 - 092116 -	- Sales Tax added to the order.		
	Order/Item 88084	1/20 07/05/2016		
	Customer's PO no	o./item 143799		



Conditions Shipping Conditions Inco Terms	0 days EXW Houston, TX Ex Works		Delivery Note Document No. Document Date Page 3 of	83352143 10/05/2016 3
Quantity Packagin 1 113 X 25.	g 2 X 110.2 INCH -Wooden crate	Materi HCK3	al FA45IPSIVS	Charge 1
Package number	1184487.18			
				· .



Material label VDA 4902 Vers. 4

Casing Program

Hole Size	Casing Interval		Csa. S	ze	Weight	Grade	Conn.	SF	SF Burst	SF
	From	То			(lbs)		••••	Collapse		Tension
17.5"	0	1145	13.37	5"	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	22,726	5.5"		23	P110	BTC	1.75	2.07	2.47
		BLM Minim				m Safet	/ Factor	1.125	1	1.6 Dry 1.8 Wet

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Intermediate casing will be kept at least 1/3 full while running casing.to mitigate collapse. Intermediate burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface. All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Casing Program

Hole Size	Casin From	g Interval To	Csg. Si	ze	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17.5"	0	1145	13.37	5"	54.5	J55	STC	2.21	6.15	8.24
12.25"	0	12100	9.625	n	47	HCL80	BTC	1.46	1.03	1.97
8.5	0	22,726	5.5"		23	P110	BTC	1.75	2.07	2.47
	BL				M Minimu	m Safety	y Factor	1.125	1	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Intermediate burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface. All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Casing Program

Hole Size Casing Inte		g interval	Cen S	170	Weight	Grada	Conn	SF	SE Buret	SF
nole Size	From	То	03y. 3120		(lbs)	Giaue	Com.	Collapse	SF Buist	Tension
17.5"	0	1145	13.37	5"	54.5	J55	STC	2.21	6.15	8.24
12.25"	0	12100	9.625	"	47	HCL80	втс	1.46	1.03	1.97
8.5	0	22,726	5.5"		23	P110	BTC	1.75	2.07	2.47
				BL	M Minimu	m Safety	y Factor	1.125	1	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Intermediate burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface. All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

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COG Operating, LLC - Fasconator Fed Com 701H

1. Geologic Formations

TVD of target	12,761' 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	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	

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2. Casing Program

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Hole Size	Casing		Con 6	Weight		Grade	Conn	SF	SE Buret	SF
HOIE SIZE	From	То	Csy. 5	12.6	(lbs)	Grade	Com.	Collapse	SF Buist	Tension
17.5"	0	1145	13.37	5"	54.5	J55	STC	2.21	6.15	8.24
12.25"	ο	12100	9.625	5"	47	HCL80	втс	1.46	1.03	1.97
8.5	0	22,726	5.5"		23	P110	втс	1.75	2.07	2.47
BLM Minimum Sa					n Safety	Factor	1.125	1	1.6 Dry 1.8 Wet	

Intermediate casing will be kept at least 1/3 full while running casing.to mitigate collapse. Intermediate burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface. All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

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COG _perating, LLC - Fasconator Fed Com 701H

	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.	Ý
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?	

COG Operating, LLC - Fasconator Fed Com 701H

3. Cementing Program

Casing	# Sks	Wt. Ib/ gal	Yld ft3/ sack	H₂0 gal/sk	500# Comp. Strength (hours)	Slurry Description
S. unf	500	13.5	1.75	9	12	Lead: Class C + 4% Gel
Sun.	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Inter.	1000	11	2.8	19	48	Lead: NeoCem
Stage1	300	16.4	1.1	5	8	Tail: Class H
				DV Toc	J @ 5440'	· · · ·
Inter.	750	11	2.8	19	48	Lead: NeoCem
Stage2	100	14.8	1.35	6.34	8	Tail: Class C + 2% Cacl
E E Brod	400	12.7	2	10.6	16	Lead: 35:65:6 H Blend
5.5 FIGU	2930	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	11,100'	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	Ту	pe	x	Tested to:	
			Ann	ular	Х	2500 psi	
	13-5/8"		Blind Ram			5M	
12-1/4"		5M	Pipe Ram		Х		
			Double Ram		Х		
			Other*				
			5M Ai	nnular	х	5000 psi	
	13-5/8"	Bli		Ram			
8-3/4"		10M	Pipe	Ram	X		
			Double	e 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.

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

COG Operating, LLC - Fasconator Fed Com 701H

5. Mud Program

	Depth	Time	Weight	Viecesity	
From	То	Гуре	(ppg)	viscosity	vvaler Loss
0	Surf. Shoe	FW Gel	8.4 - 8.6	28-29	N/C
Surf csg	Int shoe	Diesel Brine Emul	8.6 - 9.4	30-40	N/C
Int shoe	Lateral TD	OBM	10.5 - 12.5	30-40	20

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

Wha	t will be used	to monitor	the loss or g	gain of fluid	1?	PVT/Pasc	on/Visual N	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		
Ν	PEX			

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8295 psi at 12761' TVD
Abnormal Temperature	NO 180 Deg. F.

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

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

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

N H2S is present

Y H2S Plan attached

8. Other Facets of Operation

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

x	H2S Plan.
x	BOP & Choke Schematics.
x Directional Plan	
×	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"		
HWDP	5"		
Jars	5"	Upper 4.5-7" VBR	1014
Drill collars and MWD tools	6.25-6.75"	Lower 4.5-7" VBR	
Mud Motor	6.75"		
Production casing	5.5"		
ALL	0-13-5/8"	Annular	5M
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:

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

GAS CAPTURE PLAN

Date: 1/12/2018

 \boxtimes Original

Operator & OGRID No.: COG Operating LaC, 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, recomplete 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 #701H	Fed.	Com	30-025-	•	C-30-24S-35E	210' FNL & 2160' FWF	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 <u>Versado</u>, and will be connected to <u>Eunice low/high</u> pressure gathering system located in <u>Lea</u> County, New Mexico. It will require <u>0' to an undetermined amount of feet</u> of pipeline to connect the facility to low/high pressure gathering system. <u>COG Operating LLC</u> provides (periodically) to <u>Versado</u> a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, <u>COG Operating LLC</u> and <u>Versado</u> have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at <u>Eunice</u> Processing Plant located in Sec 3, Twn 22S, Rng 37E, <u>,Lea</u> County, New Mexico. The actual flow of the cas 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 <u>Versado</u> system at that time. Based on current information, it is <u>COG Operating LLC's</u> 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



- 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 Lift Flow Sensor or Pit Float to indicate a kick Immediately record start time 	Company Representative / Rig Manager
 Recognition 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 Sound alarm, notify rig crew that the well is flowing 	Company Representative / Rig Manager
 Reaction 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					
 Lift Flow Sensor or Pit Float to indicate a kick Immediately record start time 	Company Representative / Rig Manager				
Recognition					
 Driller recognizes indicator Suspends tripping operations Conduct Flow Check 	Driller				
 Initiate Action Sound alarm, notify rig crew that the well is flowing 	Company Representative / Rig Manager				
Reaction					
 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
 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

08/07/2018

APD ID: 10400028700

Operator Name: COG OPERATING LLC

Well Name: FASCINATOR FEDERAL COM

Well Type: OIL WELL

Submission Date: 03/22/2018

Well Number: 701H

Row(s) Exist? NO

30

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Show Final Text

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

COG_Fascinator_701H_Exist_Rd_20180322085207.pdf

Existing Road Purpose: ACCESS

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_701H_MapsPlats_20180322085223.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:

Well Name: FASCINATOR FEDERAL COM

Well Number: 701H

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_701H_1Mile_Data_20180322085450.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: 701H
Water source use type: INTERMEDIATE/PRODUCTION C	ASING 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 CASIN	G 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_701H_BrineH2O_20180322085618.pdf	· · ·
COG_Fascinator_701H_FreshH2O_20180322085628.pdf	
Water source comments: Fresh water will be obtained from C I0, T24S, R36E. Brine water will be obtained from the Malaga I New water well? NO	-01414 RRR Cattle Company water well located in Section I Brine station located in Section 12. T23S. R28E.
New Water Well Info	
Well latitude: Well Longitude:	Well datum:
Well target aquifer:	

Est. depth to top of aquifer(ft):

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing outside diameter (in.):

Well casing type:

Est thickness of aquifer:

Well casing inside diameter (in.):

Well Name: FASCINATOR FEDERAL COM

Well Number: 701H

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 Disposal location ownership: COMMERCIAL

FACILITY **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**:

Sale containmaint attacimment.

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

Disposal location description: Trucked to an approved disposal facility

Well Name: FASCINATOR FEDERAL COM

Well Number: 701H

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 Disposal location ownership: COMMERCIAL FACILITY

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

Well Name: FASCINATOR FEDERAL COM

Well Number: 701H

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: YES

Ancillary Facilities attachment:

COG_Fascinator_701H_GCP_20180322085652.pdf

Comments: GCP Attached.

Section 9 - Well Site Layout

Well Site Layout Diagram:

COG_Fascinator_701H_Prod_Facility_20180322090139.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	Well pad interim reclamation (acres):	Well pad long term disturbance
(acres): 3.67	0.15	(acres): 3.35
Road proposed disturbance (acres):	Road interim reclamation (acres): 0.99	Road long term disturbance (acres):
0.99 Powerline proposed disturbance (acres): 0 Pipeline proposed disturbance	Powerline interim reclamation (acres): 0 Pipeline interim reclamation (acres): 0	Powerline long term disturbance (acres): 0 Pipeline long term disturbance
(acres): 0 Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	(acres): 0 Other long term disturbance (acres): 0
Total proposed disturbance: 4.66	Total interim reclamation: 1.14	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:

Well Name: FASCINATOR FEDERAL COM

Well Number: 701H

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 type:

Seed name:

Source name:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Seed Type

Seed source:

Total pounds/Acre:

Source address:

Proposed seeding season:

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

Pounds/Acre.

Seed Summary

Well Name: FASCINATOR FEDERAL COM

Email: rfrench@concho.com

Last Name: French

First Name: Rand

Phone: (432)254-5556

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_701H_ClosedLoop_20180322090222.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:

SER LOCAL DIFFER 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: 701H

Section 12 - Other Information

Right of Way needed? NO

ROW Type(s):

Use APD as ROW?

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_701H_Certification_20180322090236.pdf

Surface Use Plan COG Operating LLC Fascinator Federal Com 701H SHL: 210' FNL & 2160' FWL UL C Section 30, T24S, R35E BHL: 200' FSL & 2310' FWL UL N 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 12^{+10} day of 7^{-10} and 7^{-10}

Signed:

Printed Name: Mayte Reyes Position: Regulatory Analyst Address: 2208 W. Main Street, Artesia, NM 88210 Telephone: (575) 748-6945 E-mail: <u>mreyes1@concho.com</u> Field Representative (if not above signatory): Rand French Telephone: (575) 748-6940. E-mail: <u>rfrench@concho.com</u>



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

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: 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: Decribe 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:

PWD disturbance (acres):

PWD Data Report

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe 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:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

PWD disturbance (acres):

PWD disturbance (acres):

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:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: 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: Other PWD discharge volume (bbl/day): Other PWD type description: Other PWD type attachment: Have other regulatory requirements been met?

Other regulatory requirements attachment:

Injection well name:

Injection well API number:

PWD disturbance (acres):

PWD disturbance (acres):

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

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:

Bond Info Data Report

08/07/2018

Well Name: FASCINATOR FEDERAL COM

Well Number: 701H



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	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	QW	TVD .
PPP Leg #1	264 0	FSL	231 0	FWL	24S	35E	30	Aliquot NESW	32.18835 1	- 103.4076 79	LEA	NEW MEXI CO	NEW MEXI CO	F	FEE	- 930 1	149 00	126 46
PPP Leg #1	0	FNL	231 0	FWL	24S	35E	31	Aliquot NENW	32.18095 2	- 103.4076 62	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 014164	- 933 9	175 00	126 84
EXIT Leg #1	330	FSL	231 0	FWL	24S	35E	31	Aliquot SESW	32.16762 5	- 103.4076 31	LEA	NEW MEXI CO	NEW MEXI CO	F	FEE	- 941 2	225 00	127 57
BHL Leg #1	200	FSL	231 0	FWL	24S	35E	31	Aliquot SESW	32.16726 9	- 103.4076 3	LEA	NEW MEXI CO	NEW MEXI CO	F	FEE	- 941 6	227 26	127 61



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



Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently 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 the company I represent, 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.

NAME: Mayte ReyesSigned on: 03/22/2018Title: Regulatory AnalystStreet Address: 2208 W Main StreetStreet Address: 2208 W Main StreetZip: 88210City: ArtesiaState: NMZip: 88210Phone: (575)748-6945Field Representative concho.comField RepresentativeField RepresentativeRepresentative Name: Rand FrenchStreet Address: 2208 West Main StreetCity: ArtesiaState: NMZip: 88210

Phone: (575)748-6940

Email address: rfrench@concho.com