Form 3160-3 (March 2012)

OCD Hobbs

•	FORM APPROVED
	OMB No. 1004-0137
Е	xpires October 31, 2014

5.	Lease Serial	No.
NM	Lease Serial NM120907	~

	DEPARTI	MENT OF THE	INTERI	ORAPP A	٠ · ·	CD	5. Lease Serial No. NMNM120907	_
	DEPARTI BUREAU APPLICATION FO DRILL	R PERMIT TO	DRIL4	OR REEN	TER 18		6. If Indian, Allotee	or Tribe Name
la. Type of work:	DRILL	REENT	ER	- C/	ED		7 If Unit or CA Agre	
lb. Type of Well:	Oil Well Gas	Well Other	Į.	Single Zone	Multi	ple Zone /	8. Lease Name and i	
2. Name of Operat	or COG PRODUCTIO	NLLC (2/7	755]	Mi	N F		9. APÌ Wèll-No.	44634
3a. Address 2208	West Main Street Arte	sia NM 88210		ic No. (include d 48-6940	rea code)		10. Field and Pool, or I WILDCAT / BONE	\ , , , , ~ ,
At surface SW	l (Report location clearly of /SW / 240 FSL / 1050 l d. zone NWSW / 2410 l	FWL / LAT 32.167	475 / LON	NG -103.6505		951	11. Sec., T. R. M. or B SEC 35 / T24S / R	·
	and direction from nearest			//	2,00,007	001	12. County or Parish LEA	13. State NM
15. Distance from pr location to neares property or lease (Also to nearest of	1 240 feet		16. No. 1840	of acres in leas	(F)	17. Spacir 240	ng Unit dedicated to this v	well
18. Distance from pro to nearest well, di applied for, on th	rilling, completed, 573 fee	et ·	9376 1	posed Depth eet / 16540 f		FED: N	BIA Bond No. on file MB000860	
21. Elevations (Sho 3522 feet	w whether DF, KDB, RT,	GL, etc.)	I/ / · ·	proximate date v /2017/	vork will sta	ırt*	23. Estimated duration 30 days	n . :
			24. 7	Attachments				
A Drilling Plan. A Surface Use Pl SUPO must be fil	by a registered surveyor. an (if the location is on Ned with the appropriate For	ational Forest System	1 Lands, th	Iten ie 5. Ope	i 20 above). rator certifi th other site	cation		existing bond on file (see
25. Signature (Ele	ctronic-Submission)			lame (Printed/1 Nayte Reyes)748-6945	;	Date 10/17/2017
Title Regulatory A	nalyst	>						
Approved by (Signatur				lame (Printed/I ody Layton /		234-5959		Date 03/22/2018
Title Supervisor Multip	ole Resources			office CARLSBAD				
Application approval conduct operations the	does not warrant or certify	that the applicant ho			to those rigl	nts in the sul	bject lease which would e	entitle the applicant to
Title 18 U.S.C. Section States any false, fictiti	n 1001 and Title 43 U.S.C. Sous or fraudulent statemer	ection 1212, make it a its or representations a	crime for a s to any ma	nny person knov tter within its ju	vingly and risdiction	willfully to r	nake to any department o	or agency of the United
	Rec 04/09 17 ASS 98	3/18 8/ TUS 20/ APPRO	vro 1	VITH CO	NDIT	IONS	. 1	ructions on page 2)
	·_			ite: 03/22			,	

INSTRUCTIONS

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

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

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

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

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

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

NOTIÇES

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

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

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

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

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

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

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

(Continued on page 3)

(Form 3160-3, page 2)

Approval Date: 03/22/2018

Additional Operator Remarks

Location of Well

1. SHL: SWSW / 240 FSL / 1050 FWL / TWSP: 24S / RANGE: 32E / SECTION: 35 / LAT: 32.167475 / LONG: -103.650593 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 330 FSL / 660 FWL / TWSP: 24S / RANGE: 32E / SECTION: 35 / LAT: 32.167719 / LONG: -103.651853 (TVD: 5750 feet, MD: 5750 feet)

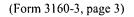
BHL: NWSW / 2410 FSL / 660 FWL / TWSP: 24S / RANGE: 32E / SECTION: 26 / LAT: 32.187975 / LONG: -103.651851 (TVD: 9376 feet, MD: 16540 feet)

BLM Point of Contact

Name: Sipra Dahal

Title: Legal Instruments Examiner

Phone: 5752345983 Email: sdahal@blm.gov



Approval Date: 03/22/2018

Review and Appeal Rights

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



(Form 3160-3, page 4)

Approval Date: 03/22/2018



APD ID: 10400023412

Well Type: OIL WELL

I.S. Department of the Interior **BUREAU OF LAND MANAGEMENT**

Well Name: EIDER FEDERAL

Application Data Report

Submission Date: 10/17/2017

Highlighted data

reflects the most

recent changes

Well Number: 201H

Show Final Text

Well Work Type: Drill

Section 1 - General

Operator Name: COG PRODUCTION LLC

APD ID:

10400023412

Tie to previous NOS?

Submission Date: 10/17/2017

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: NMNM120907

Lease Acres: 1840

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 PRODUCTION LLC

Operator letter of designation:

Operator Info

Operator Organization Name: COG PRODUCTION LLC

Operator Address: 2208 West Main Street

Zip: 88210

Operator PO Box:

Operator City: Artesia

State: NM

Operator Phone: (575)748-6940

Operator Internet Address: mreyes1@concho.com

Section 2 - Well Information

Well in Master Development Plan? NO

Mater Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: EIDER FEDERAL

Well Number: 201H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WILDCAT

Pool Name: BONE SPRING

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

Well Name: EIDER FEDERAL

Well Number: 201H

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: EIDER Number: 101H, 201H, 102H,

FEDERAL

301H, 302H, 202H

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 22 Miles

Distance to nearest well: 573 FT

Distance to lease line: 240 FT

Reservoir well spacing assigned acres Measurement: 240 Acres

Well plat:

COG_Eider_201H_C102_20171017080317.pdf

Well work start Date: 02/01/2017

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
240	FSL	105 0	FWL	24\$	32E	35	sws	32.16747 5	- 103.6505 93	LEA	NEW MEXI	NEW MEXI	F		352 2	0	0
240	FSL	105 0	FWL	248	32E	35	sws	32.16747 5	- 103.6505 93	1	NEW MEXI	–	F		352 2	0	0
330	FSL	660	FWL	24S	32E	35	sws	32.16771 9	- 103.6518 53		NEW MEXI	NEW MEXI	F	NMNM 120907	- 222 8		575 0

Well Name: EIDER FEDERAL

Well Number: 201H

	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
	231	FSL	660	FWL	24S	32E	26		32.18770	-	LEA	1		F	NMNM	-	163	935
	0						Ì	NWS	1	103.6518		MEXI	MEXI		120907	582	50	0
										51						8		
	241	FSL	660	FWL	248	32E	26		32.18797	-	LEA	NEW	NEW	F	NMNM	- `	165	937
	0							NWS	5	103.6518		MEXI	MEXI		120907	585	40	6
1										51		,				4		

New Mexico al Resources Department Form C-102 TION DIVISION Revised August 1, 2011 Submit one copy to appropriate . FRANCIS DR. District Office Mexico 87505 O AMENDED REPORT - PW -REAGE DEDICATION PLAT Pool Name 5-__iring y Name Well Number 'EDE⁄RAL 201H No. r Name Elevation ETION, LLC 55 3521.7 Location North/South lin Feet from the East/West line ιίD County the 4-S 32 1050 WEST LEA Bol Different From Surface wnship Ra North/South line Feet from the East/West line County !4-S WEST 32 660 LEA fill Consolid 40 ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED A) . NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION ٧C OPERATOR CERTIFICATION OPERATOR CERTIFICATION

I hereby certify that the information
herein is true and complete to the best of
my knowledge and belief, and that this
organization either owns a working interest
or unlessed mineral interest in the land
including the proposed bottom hale location
or has a right to drill this well at this
location pursuant to a contract with an
owner of such mineral or working interest,
or to a voluntary pooling agreement or a
compulsory pooling order heretofore entered
by the director. MAD B3 NME MAD 83 NME <u>PROPRISED BOTTOM</u> <u>HOLE LOCATION</u> Y=432X87.9 N X=752138.9 E LAT.=32.187975' N LONG.=103.651851' V Y=433014.4 N X=752820 0 E Signatur 10 Printed Name **@** 10.com E-mail Address SURVEYOR CERTIFICATION SECTION 26 I hereby certify that the well location above on this plat was plotted from field noted of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. SECTION 35)7 'A 'S Date of Survey Signature & 5d d of Professional Surveyor HARCRON CHAO SEM WEXIC NAD 83 NME SURFACE LOCATION Y=425332.6 N 17777 X=752595.4 E LAT.=32.167475' N LONG.=103.650593° W c=425082.4 N Y=425095.2 N 6.9 E X=752867.3 E CHAD HARCROY 17777 W.O. # 17-1013 DRAWN BY: JH



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

Drilling Plan Data Report

03/26/2018

APD ID: 10400023412

Submission Date: 10/17/2017

Highlighted data

Operator Name: COG PRODUCTION LLC

Well Number: 201H

reflects the most

recent changes

Show Final Text

Well Type: OIL WELL

Well Name: EIDER FEDERAL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation		1	True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1	QUATERNARY	3522	0	0	·	NONE	No
2	RUSTLER	2595	927	927		NONE	, No
3	TOP SALT	2262	1260	1260		NONE	No
4	BASE OF SALT	-1072	4594	4594		NONE	No
5	LAMAR	-1300	4822	4822		NONE	No
6	BELL CANYON	-1328	4850	4850		NONE	No
7	CHERRY CANYON	-2237	5759	5759		NATURAL GAS,OIL	No
8	BRUSHY CANYON	-3617	7139	7139	SCHIST	NATURAL GAS,OIL	No
9	BONE SPRING LIME	-5259	8781	8781	.	NATURAL GAS,OIL	No
10	UPPER AVALON SHALE	-5604	9126	9126		NATURAL GAS,OIL	No
11		-5784	9306	9306		NATURAL GAS,OIL	Yes
12		-5974	9496	9496		NATURAL GAS,OIL	No
13	BONE SPRING 1ST	-6336	9858	9858		NATURAL GAS,OIL	No

Section 2 - Blowout Prevention

Well Name: EIDER FEDERAL Well Number: 201H

Pressure Rating (PSI): 2M

Rating Depth: 4625

Equipment: Annular. 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 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.

Choke Diagram Attachment:

COG_Eider_201H_2M_Choke_20171017082049.pdf

BOP Diagram Attachment:

COG_Eider_201H_2M_BOP_20171017082056.pdf COG_Eider_102H_Flex_Hose_20171017082132.pdf

Pressure Rating (PSI): 3M

Rating Depth: 9376

Equipment: Annular, Blind Ram, Pipe Ram. 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 Choke Manifold.

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.

Choke Diagram Attachment:

COG_Eider_201H_3M_Choke_20171017082207.pdf

BOP Diagram Attachment:

COG_Eider_201H_3M_BOP_20171017082213.pdf

COG Eider 102H Flex Hose 20171017082221.pdf

Well Name: EIDER FEDERAL

Well Number: 201H

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	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	Ν	0	955	0	955			955	J-55	54.5	STC	2.59	1.35	DRY	9.88	DRY	9.88
2	l	12.2 5	9.625	NEW	API	Y	0	4625	0	4625		,	4625	L-80	40	LTC	1.27	1.6	DRY	5.73	DRY	5.73
3	PRODUCTI ON	8.75	5.5	NEW	API	N	0	16540	0	16540	-		16540	P- 110	17	LTC	1.65	2.96	DRY	2.79	DRY ·	2.79

Casing Attachments

Casing ID: 1

String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $COG_Eider_201H_Casing_Plan_20171017082329.pdf$

Well Name: EIDER FEDERAL Well Number: 201H

Casing Attachments

Casing ID: 2

String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

COG_Eider_201H_Casing_Plan_20171017082321.pdf

Casing Design Assumptions and Worksheet(s):

COG_Eider_201H_Casing_Plan_20171017082314.pdf

Casing ID: 3

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $COG_Eider_201H_Casing_Plan_20171017082307.pdf$

Section 4 - Cement

String Type	Lead/Tail	Stage Tool	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	955	380	1.75	13.5	665	50	Class C	4% Gel + 1% CaCl2
SURFACE	Tail			955	250	1.34	14.8	335	50	Class C	2% CaCI2
INTERMEDIATE	Lead		955	4625	870	2	12.7	1740	50	Lead: 35:65:6 C Blend	As needed.
INTERMEDIATE	Tail			4625	250	1.34	14.8	335	50	Tail: Class C	2% CaC12
PRODUCTION	Lead		4625	1654 0	660	2.5	11.9	1650	25	Lead: 50:50:10 H Blend	As needed.

Well Name: EIDER FEDERAL

Well Number: 201H

String Type	Lead/Tail	Stage Tool	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail			1654	1950	1.24	14.4	2418	25	Tail: 50:50:2	As needed.
				0						Class H Blend	

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 requirement 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)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
955	4625	OTHER : Saturated Brine	10	10.1							Saturated Brine
4625	1654 0	OTHER : Cut Brine	8.6	9.3							Cut Brine
0	955	OTHER : FW Gel	8.6	8.8							FW Gel

Well Name: EIDER FEDERAL Well Number: 201H

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:

OTH

Other log type(s):

CNL/GR

Coring operation description for the well:

None planned.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4535

Anticipated Surface Pressure: 2472.28

Anticipated Bottom Hole Temperature(F): 150

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_Eider_201H_H2S_Plan_20171017082836.pdf COG_Eider_201H_H2S_Schematic_20171017082845.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

COG_Eider_201H_AC_Report_20171017082900.pdf COG_Eider_201H_Direct_Plan_20171017082908.pdf

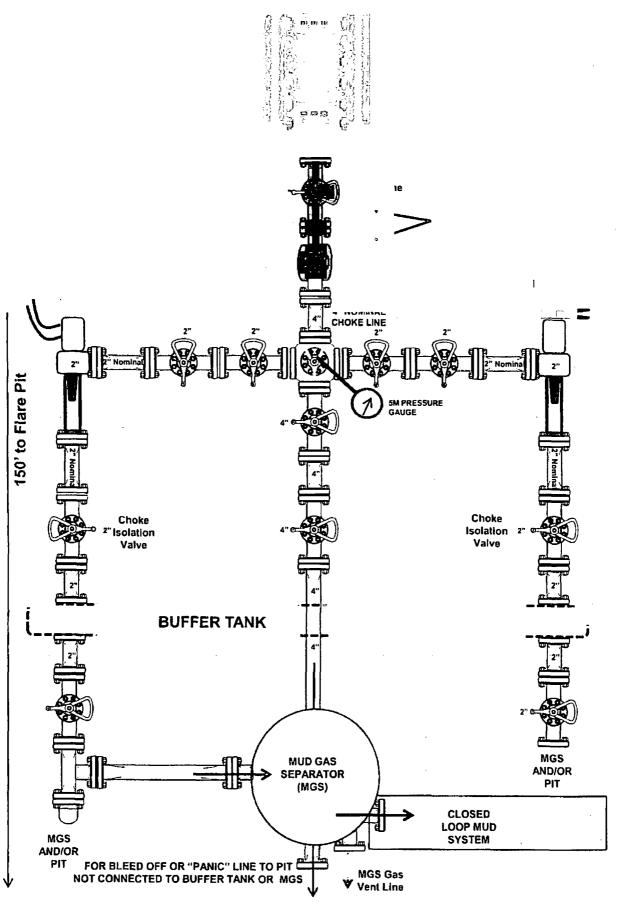
Other proposed operations facets description:

Other proposed operations facets attachment:

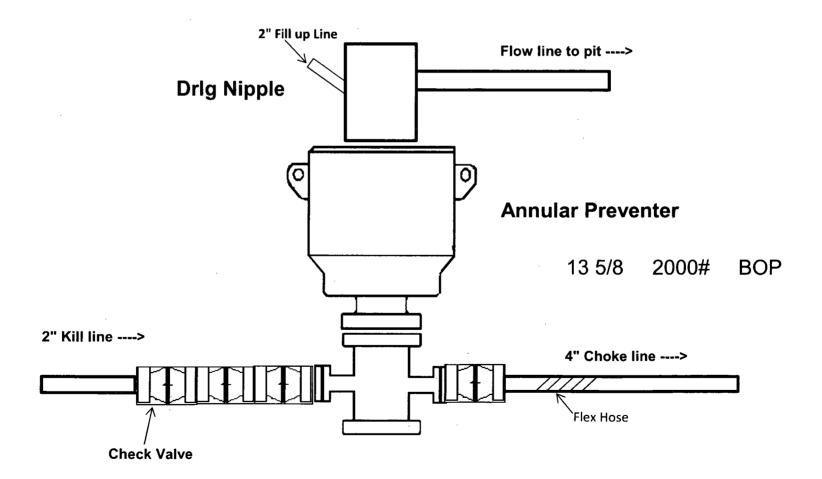
COG_Eider_201H_Drill_Plan_20171017082918.pdf

Other Variance attachment:

CLOSED LOOP)



2,000 psi BOP Schematic





TECHNIP Umbilicals Inc. COFLEXIP® Products and Solutions

Quality Control Department

Control Report Dated

6/27/2017

COFLEXIP® Products and Solutions FLEXIBLE PIPE TEST CERTIFICATE

Customer

OFS CANADA INC

Line Number

L16883

Line Serial Number

L16883-201

Part Number

076 60414 05 05

Application

3" X 30' 10K CHOKE / KILL LINE

COFLEXIP® Products Division certifies that the results of the test and controls performed on the above mentioned flexible pipe is as follows:

Internal Diameter	3	inches
Length	30.46	feet
Working Pressure	10000	psi
Test Pressure	15000	psi
As per attached recorder chart	4	hours
Test Duration		

9/11-6-167

THIRD PARTY INSPECTION FIRM OR CUSTOMER REPRESENTATIVE

DQAC 1124 Rev 4 17 Apr 1

Date Printed:

8/28/2017 8:56:23 AM

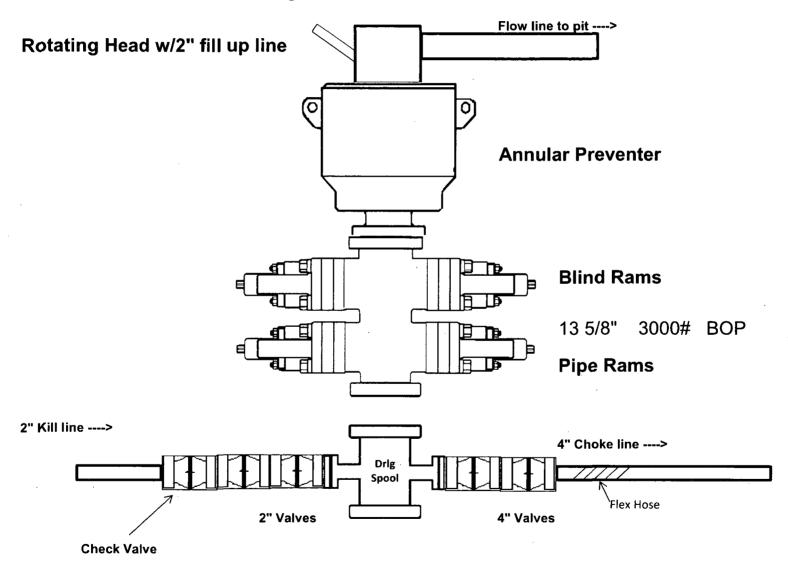
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					MV (by		armation Acce 574								
					0 - 20000	Tag Press 15000 Pressure Surge	Temperatur SN		Special Instructions	Witness?	ABEL	QC Information Input	Line SVN	CUSTOME DIC OFS CANADA INC	
							Station 05					Input		manon input	
						Arm Mannum		Substitution of the control of the c	:	Test Procedure	8 V	Third Party	JUAN		
						ing Maranum soon control									i
 (Gab) sumano		5 5 5 E	666	5 5 2 5		0000 0000									

CORVIDA NAV COCCE

MEDICAL MEDICA (DE/DIA MEDICA)

CLOS,OS TO CLOS,OS NA

3,000 psi BOP Schematic





TECHNIP Umbilleals Inc. COFLEXIP® Products and

Quality Control Department

Control Report Dated

6/27/2017

COFLEXIP® Products and Solutions FLEXIBLE PIPE TEST CERTIFICATE

Customer

OFS CANADA INC

Line Number

L16883

Line Serial Number

L16883-201

Part Number

076 60414 05 05

Application

3" X 30' 10K CHOKE / KILL LINE

COFLEXIP® Products Division certifies that the results of the test and controls performed on the above mentioned flexible pipe is as follows:

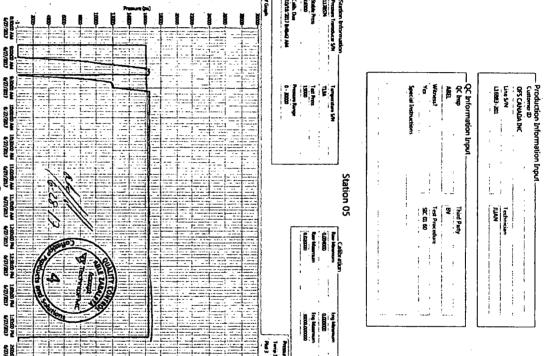
Internal Diameter	3	inches
Length	30.46	feet
Working Pressure	10000	psi
Test Pressure	15000	psi
As per attached recorder chart	4	hours
Test Duration		

6/28/2017 8:56:23 AM

THIRD PARTY INSPECTION FIRM OR CUSTOMER REPRESENTATIVE

DQAC 1124 Rev 4

Test Configuration 12 Zone



Casing Program

Hole Size	Ca	asing	Csg. Size	Weight Code		Conn.	SF	SF Burst	SF
Hole Size	From	То	Csg. Size	(lbs)	Graue	Comi.	Collapse	or burst	Tension
17.5"	0	955	13.375"	54.5	J55	STC	2.59	1.35	9.88
12.25"	0	4000	9.625"	40	J55	LTC	1.22	1.10	3.25
12.25"	4000	4625	9.625"	40	L80	LTC	1.27	1.60	5.73
8.75"	0	16,540	5.5"	17	P110	LTC	1.65	2.96	2.79
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

Uala Cina	Ca	asing	Com Sino	Weight	Grade	C	SF	SF Burst	SF
Hole Size	From	То	Csg. Size	(lbs)	Grade	Conn.	Collapse	or burst	Tension
17.5"	0	955	13.375"	54.5	J55	STC	2.59	1.35	9.88
12.25"	0	4000	9.625"	40	J55	LTC	1.22	1.10	3.25
12.25"	4000	4625	9.625"	40	L80	LTC	1.27	1.60	5.73
8.75"	0	16,540	5.5"	17	P110	LTC	1.65	2.96	2.79
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Casing Program

Hole Size	Ca	asing	Csg. Size		Weight	Grada	Grade Conn.	SF	SF Burst	SF
noie size	From	То	Csy. 5	120	(lbs)	(lbs)		Collapse	3F Burst	Tension
17.5"	0	955	13.375	5"	54.5	J55	STC	2.59	1.35	9.88
12.25"	0	4000	9.625	"	40	J55	LTC	1.22	1.10	3.25
12.25"	4000	4625	9.625		40	L80	LTC	1.27	1.60	5.73
8.75"	0	16,540	5.5"		17	P110	LTC	1.65	2.96	2.79
BLM Minimum Safety Factor						1.125	1	1.6 Dry 1.8 Wet		

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	Y or N
ls casing new? If used, attach certification as required in Onshore Order #1	Υ
Does casing meet API specifications? If no, attach casing specification sheet.	Υ
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Υ
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Υ
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?	
ls 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?	1
ls 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?	
ls well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	-
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	YId ft3/ sack	H₂0 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	380	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
Sun.	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Intor	870	12.7	2.0	9.6	16	Lead: 35:65:6 C Blend
Inter.	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl
5.5 Prod	660	11.9	2.5	19	72	Lead: 50:50:10 H Blend
3.5 P100	1950	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	4,125'	25% OH in Lateral (KOP to EOL) – 40% OH in Vertical

4. Pressure Control Equipment

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

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		x	Tested to:
			Ann	ular	Х	2000 psi
			Blind	Ram		
12-1/4"	13-5/8"	2M	Pipe Ram			2M
			Double Ram			
			Other*			
			Ann	nular	x	50% testing pressure
8-3/4"	13-5/8"	3M	Blind Ram		Х	3M
			Pipe Ram		Х	
			Double Ram			
			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.
×	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	Time	Weight	Vicesity	\A/c4c=1 ccc
From	То	Туре	(ppg)	Viscosity	Water Loss
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	9-5/8" Int shoe	Saturated Brine	10 - 10.1	28-34	N/C
9-5/8" Int shoe	Lateral TD	Cut Brine	8.6 - 9.3	28-34	N/C

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

144 1 101 14 14 11 1 1 1 1 1 1 1 1 1 1 1	D) (T/D) A (114 '11 '
What will be used to monitor the loss or gain of fluid?	IPVT/Pason/Visual Monitoring
Titlat Will be deed to the like and love or gain or hard.	1. 1.7. 4.00 1.00

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.		
Y	No 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	4535 psi at 9376' TVD
Abnormal Temperature	NO 150 Deg. F.

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

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

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

N	H2S is present
\vdash	
Y	H2S Plan attached

8. Other Facets of Operation

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

Х	H2S Plan.
×	BOP & Choke Schematics.
X	Directional Plan



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT SUPO Data Report

03/26/2018

APD ID: 10400023412

Operator Name: COG PRODUCTION LLC

Well Name: EIDER FEDERAL

Well Type: OIL WELL

Submission Date: 10/17/2017

Well Number: 201H

Well Work Type: Drill

Highlighted data

reflects the most

recent changes

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

COG Eider 201H Existing Road 20171017065211.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? YES

ROW ID(s)

ID: NM132549

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_Eider_201H_Maps_Plats_20171017065828.pdf

New road type: RESOURCE

Length: 4954.4

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 food drainage, and to be consistent with local drainage patterns.

New road access plan or profile prepared? NO

New road access plan attachment:

Well Name: EIDER FEDERAL

Well Number: 201H

Access road engineering design? NO

Access road engineering design attachment:

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: CULVERT, 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_Eider_201H_1_Mile_Map_20171017065801.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: Production will be sent to the proposed Eider CTB 1, A surface flow line of approximately 920.6' of 3" steel pipe carrying oil, gas and water under a maximum pressure of 125 psi will follow the road to the facility at the Eider CTB 1 location. We plan to install a 4" surface polyethylene pipe transporting Gas Lift Gas from the Eider CTB 1 to the Eider Federal 201H. The surface Gas Lift Gas pipe of approximately 920.6' under a maximum pressure of 125 psi will be installed no farther than 10 feet from the edge of the road.

Well Name: EIDER FEDERAL

Well Number: 201H

Water source type: OTHER

Source longitude:

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: ICE PAD CONSTRUCTION &

MAINTENANCE, STIMULATION, SURFACE CASING

Describe type: Fresh Water

Source latitude:

Source datum:

Water source permit type: PRIVATE CONTRACT, PRIVATE

CONTRACT

Source land ownership: PRIVATE

Water source transport method: PIPELINE, PIPELINE

Source transportation land ownership: PRIVATE

Water source volume (barrels): 337500

Source volume (gal): 14175000

Water source use type: INTERMEDIATE/PRODUCTION CASING

Describe type: Brine Water

Source latitude: Source datum:

Water source permit type: PRIVATE CONTRACT, PRIVATE

CONTRACT

Source land ownership: COMMERCIAL

Water source transport method: TRUCKING, TRUCKING

Source transportation land ownership: COMMERCIAL

Water source volume (barrels): 22500

Source volume (acre-feet): 2.9000947

Source volume (acre-feet): 43.50142

Water source type: OTHER

Source longitude:

Source volume (gal): 945000

Water source and transportation map:

COG_Eider_201H_Fresh_H2O_20171017065850.pdf COG_Eider_201H_Brine_H2O_20171017065859.pdf

Water source comments: The fresh water will be obtained from Mark McCloy water well located in Section 33, T24S, R33E, or from Rock House Ranch (575) 885-4195, Brine water will be purchased from Mesquite Services (575) 887-4847. No water well will be drilled on the location.

New water well? NO

New Water Well Info

Well Name: EIDER FEDERAL

Well Number: 201H

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.):

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 caliche does not exist or is not plentiful from the well site, the caliche will be hauled from Mack Chase caliche pit located in Section 20, T24S, R33E. (575) 748-1288.

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: SEWAGE

Waste content description: Human waste and gray water.

Amount of waste: 1000

gallons

Waste disposal frequency: One Time Only

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

Disposal location ownership: PRIVATE

FACILITY

Disposal type description:

Disposal location description: Trucked to an approved disposal facility.

Well Name: EIDER FEDERAL

Well Number: 201H

Waste type: DRILLING

Waste content description: Drilling fluids and produced oil land water while 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 containment 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: GARBAGE

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

Amount of waste: 500

pounds

Waste disposal frequency: One Time Only

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 containment 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

Well Name: EIDER FEDERAL

Well Number: 201H

Description of cuttings location Roll off cutting 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

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: YES

Ancillary Facilities attachment:

COG Eider 201H GCP 20171017065920.pdf

Comments: GCP Attached.

Section 9 - Well Site Layout

Well Site Layout Diagram:

COG_Eider_201H_CTB_Flowlines_20171017065946.pdf

COG_Eider_201H_Prod_Facility_20171017065954.pdf

COG Eider CTB 1 20171017070004.pdf

Comments: Production will be sent to the proposed Eider CTB 1, A surface flow line of approximately 920.6' of 3" steel pipe carrying oil, gas and water under a maximum pressure of 125 psi will follow the road to the facility at the Eider CTB 1 location. We plan to install a 4" surface polyethylene pipe transporting Gas Lift Gas from the Eider CTB 1 to the Eider Federal 201H. The surface Gas Lift Gas pipe of approximately 920.6' under a maximum pressure of 125 psi will be installed no farther than 10 feet from the edge of the road.

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: EIDER FEDERAL

Multiple Well Pad Number: 101H, 201H, 102H, 301H, 302H, 202H

Recontouring attachment:

Drainage/Erosion control construction: If needed, immediately following pad construction approximately 400' of straw waddles will be placed on the west side of the location, 200' of straw waddles will be placed on the northwest side of the location, and 200' of straw waddles will be placed on the southwest side of the location to reduce sediment impacts to fragile/sensitive soils.

Drainage/Erosion control reclamation: N/A

Well Name: EIDER FEDERAL

Well Number: 201H

Well pad proposed disturbance

(acres):

Road proposed disturbance (acres):

Powerline proposed disturbance

(acres):

Pipeline proposed disturbance

(acres):

Other proposed disturbance (acres):

Total proposed disturbance:

Well pad interim reclamation (acres): Well pad long term disturbance

4.54

Powerline interim reclamation (acres):

Pipeline interim reclamation (acres):

19.456022

Other interim reclamation (acres): 0

Total interim reclamation: 25.586023

(acres): 3.21

Road interim reclamation (acres): 1.59 Road long term disturbance (acres):

Powerline long term disturbance

(acres):

Pipeline long term disturbance

(acres): 19.456022

Other long term disturbance (acres): 0

Total long term disturbance:

24.256021

Reconstruction method: Portions of the pad not needed for production operationswill be re-contoured to its original state as much as possible. The caliche that is removed will be reused. The stockpiled topsoil will be spread out over reclaimed area and reseeded with BLM approved seed mixture

Topsoil redistribution: North 80'. Northwest 60'

Soil treatment: None

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

Existing Vegetation at the well pad attachment:

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:

Well Name: EIDER FEDERAL

Well Number: 201H

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

Seed Type

Pounds/Acre

Total pounds/Acre:

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

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_Eider_201H_Closed_Loop_20171017070019.pdf

Well Name: EIDER FEDERAL

Well Number: 201H

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information: COG respectfully requests approval to build a 1000' x 1000' Gadwall 35 Federal Frac Pond 2 to serve this well and any other well within a two mile radius. The proposed frac pond is to be located in Section 35, T24S, R32E. Plats are attached.

Use a previously conducted onsite? YES

Previous Onsite information: Onsite conpleted on 8/22/2017 by Rand French (COG); Gerald Herrera (COG); and Jeff Robertson (BLM).

Other SUPO Attachment

Well Name: EIDER FEDERAL

Well Number: 201H

COG_Eider_201H_Certification_20171017065133.pdf COG_Gadwall_Frac_Pond_2_20171017065148.pdf

08	09	10	11	12	07	08
17 ¹³	16	15	14	13	18); 17
•		128				
			(E)	128		
20	21	22	23	24	19	20
29	28	27	26 PROPOSED EIDE	25	30	29
		<u> </u>	#105H, #205I #305H, #306I	Н,-#106H,		
32	33	34 PR	854.9' OP. RD.	36	31	32
				EXISTING		T 24 S
05	04 #101H	R FEDERAL 03 #201H, #102H, #302H, #202H	02 PROPOSED EIDER FEDER #103H, #203H, #104H, #303H, #304H, #204H	EIDER∙FEDERAŒ#2H RAL 01	06	T 25 S 05
08	09	10	11	12	07	08
17	16	15	14	13 R 3 2 E	R 3 3 E 18	17
LEGENI	EIDER F	EDERAL #101H, #201	H, #102H, #301H, #30	02H, & #202H		
● WELL	SECTION	1: 35 TOWN	NSHIP: 24 S.	RANGE: 32 E.	<i>≫CONCH</i>	7U
WELLP		NEW MEXICO CO 17-972, 1013-1017)		SE: EIDER FED	COG PRODUCTIO	N, LLC
		2,500 5,000	7,500 10,000 FEE			
EXISTING ROAD PROPOSED ROAD		0.275 0.55 1.1 Miles 1.N - 4.000 FT			HARCROW SURVEY 2314 W. MAIN ST, ARTESI PH: (575) 746-2158 FAX: (5	A, NM 88210 75) 746-2158
PROPC	, 	0.275 0.55 1. ON MAP VICIN		N = 4,000 FT 17 J.H.	TEXAS FIRM NO. 10: c.harcrow@harcrowsurd	94089
<u> </u>						



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

PWD Data Report 03/26/2018

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:

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?

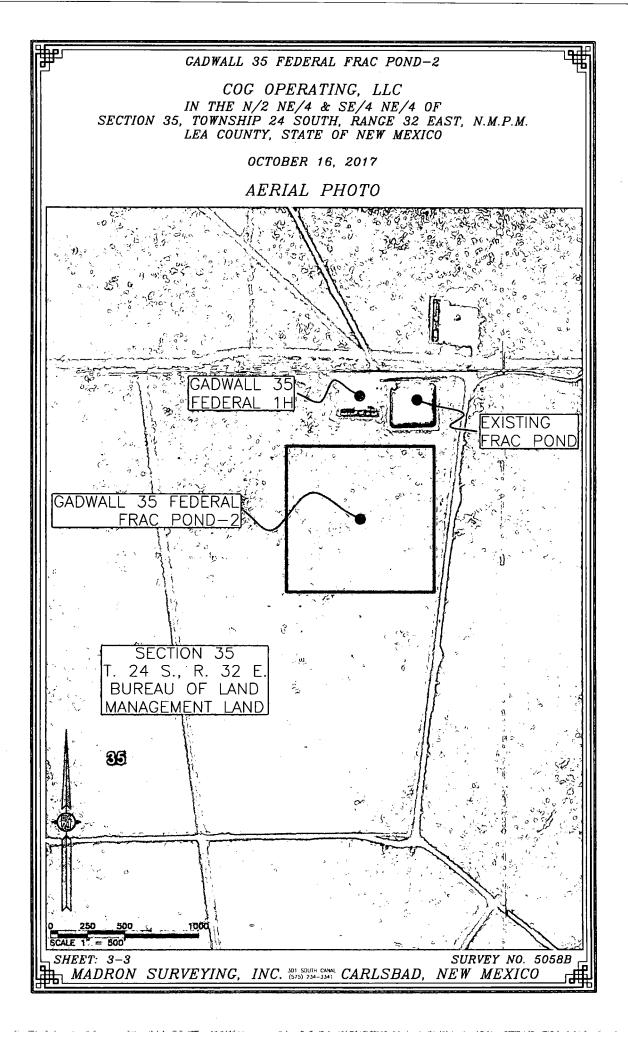
Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

PWD disturbance (acres):



Section 3 - Unlined Pits

Injection well mineral owner:

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: 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: PWD disturbance (acres): Injection PWD discharge volume (bbl/day):

Injection well type:	
Injection well number:	Injection well name:
Assigned injection well API number?	Injection well API number:
Injection well new surface disturbance (acres):	
Minerals protection information:	+ .
Mineral protection attachment:	
Underground Injection Control (UIC) Permit?	
UIC Permit attachment:	
Section 5 - Surface Discharge	
Would you like to utilize Surface Discharge PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Surface discharge PWD discharge volume (bbl/day):	
Surface Discharge NPDES Permit?	
Surface Discharge NPDES Permit attachment:	
Surface Discharge site facilities information:	
Surface discharge site facilities map:	
Section 6 - Other	
Would you like to utilize Other PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Other PWD discharge volume (bbl/day):	
Other PWD type description:	
Other PWD type attachment:	
Have other regulatory requirements been met?	
Other regulatory requirements attachment:	

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

Bond Info Data Report

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB000860

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: