R			
2		CD	
Form 3160-3 (March 2012) UNITED STATES	HOBBS OF APR 0 3 20	50RM OMB Expires	1 APPROVED No. 1004-0137 October 31, 2014
DEPARTMENT OF THE INT BUREAU OF LAND MANAG	ERIOR	Expires Lease Serial No. NMNM120907 6. If Indian, Allotee	
APPLICATION FOR PERMIT TO DR	ILL OR REENTER	6. If Indian, Allotee	e or Tribe Name
la. Type of work: 🔽 DRILL 🔲 REENTER		7 If Unit or CA Agr	eement, Name and No.
		8. Lease Name and	Well Nd 314193)
Ib. Type of Well: Oil Well Gas Well Other	Single Zone Multiple Zon	EIDER FEDERAL	303H
2. Name of Operator COG PRODUCTION LLC (2179)	55) SURF P	9. API Well No. 30-025	-44638
	Phone No. (include area code)	10. Field and Pool, or WILDCAT / BONE	
4. Location of Well (Report location clearly and in accordance with any Stat			Blk. and Survey or Area
At surface SESW / 210 FSL / 2000 FWL / LAT 32.167401 / L	and the second se	SEC 35 / T24S / R	R32E / NMP
At proposed prod. zone NESW / 2410 FSL / 1650 FWL / LAT 3. 14. Distance in miles and direction from nearest town or post office*	2.187978 / LONG -103.648651	12. County or Parish	13. State
22 miles	No de como in ladro 17 St	LEA pacing Unit dedicated to this	NM
location to nearest 240 foot	No. of acres in lease 17. Sp 240		wen
to nearest well, drilling, completed, 1414 feet		BLM/BIA Bond No. on file	
applied for, on this lease, ft. 97		D: NMB000860	
	Approximate date work will start* 2/01/2017	23. Estimated duration 30 days	on
24	4. Attachments		
The following, completed in accordance with the requirements of Onshore Oi	and Gas Order No.1, must be attached	to this form:	
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> </ol>	4. Bond to cover the ope Item 20 above).	erations unless covered by ar	n existing bond on file (see
<ol> <li>A Surface Use Plan (if the location is on National Forest System Land SUPO must be filed with the appropriate Forest Service Office).</li> </ol>		c information and/or plans a	is may be required by the
25. Signature	Name (Printed/Typed) Mayte Reves / Ph: (575)748-6	2045	Date 10/10/2017
(Electronic Submission)	Mayle Reyes / Ph. (575)748-6	5945	10/10/2017
Regulatory Analyst Approved by (Signature)	Name (Printed/Typed)		Date
(Electronic Submission)	Cody Layton / Ph: (575)234-59	959	03/22/2018
Title Supervisor Multiple Resources	Office CARLSBAD		
Application approval does not warrant or certify that the applicant holds leg conduct operations thereon. Conditions of approval, if any, are attached.	al or equitable title to those rights in the	e subject lease which would	entitle the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime States any false, fictitious or fraudulent statements or representations as to an	for any person knowingly and willfully y matter within its jurisdiction.	y to make to any department	or agency of the United
(Continued on page 2) GCA Dec 04/03/18			tructions on page 2)
(Continued on page 2) GCA Dec 04/03/15 TOP 147 B45 9896 TUD TO WELL 9725 TM APPROVE	) WITH CONDITION	K7	1041.08
TA WELL 9725 TH INDRAVE	) WIII COLL	DYI	9 40 000
	Date: 03/22/2018	•	

K#104108

& Dorping

Approval Date: 03/22/2018

#### **INSTRUCTIONS**

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

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

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

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

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

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

## NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

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

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

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

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

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

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

(Continued on page 3)

(Form 3160-3, page 2)

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Approval Date: 03/22/2018

#### **Additional Operator Remarks**

#### Location of Well

1. SHL: SESW / 210 FSL / 2000 FWL / TWSP: 24S / RANGE: 32E / SECTION: 35 / LAT: 32.167401 / LONG: -103.647523 ( TVD: 0 feet, MD: 0 feet ) PPP: NESW / 330 FSL / 1650 FWL / TWSP: 24S / RANGE: 32E / SECTION: 26 / LAT: 32.167728 / LONG: -103.648654 ( TVD: 4500 feet, MD: 4500 feet ) BHL: NESW / 2410 FSL / 1650 FWL / TWSP: 24S / RANGE: 32E / SECTION: 26 / LAT: 32.187978 / LONG: -103.648654 ( TVD: 9725 feet, MD: 17184 feet )

#### **BLM Point of Contact**

Name: Sipra Dahal Title: Legal Instruments Examiner Phone: 5752345983 Email: sdahal@blm.gov

(Form 3160-3, page 3)

#### **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.

**Approval Date: 03/22/2018** 

## **FMSS**

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

# Application Data Report

03/26/2018

APD ID: 10400023170

**Operator Name: COG PRODUCTION LLC** 

Well Name: EIDER FEDERAL

Well Type: OIL WELL

Submission Date: 10/10/2017

Zip: 88210

Well Number: 303H Well Work Type: Drill Highlighted data reflects the most recent changes Show Final Text

	Section 1 - General		
APD ID:	10400023170	Tie to previous NOS?	Submission Date: 10/10/2017
BLM Offic	e: CARLSBAD	User: Mayte Reyes	Title: Regulatory Analyst
Federal/In	dian APD: FED	Is the first lease penetrate	d for production Federal or Indian? FED
Lease nur	nber: NMNM120907	Lease Acres: 1840	
Surface a	ccess agreement in place?	Allotted?	Reservation:
Agreemen	t in place? NO	Federal or Indian agreeme	ent:
Agreemen	t number:		
Agreemen	t name:		
Keep appl	ication confidential? YES		
Permitting	J Agent? NO	APD Operator: COG PROD	DUCTION LLC
Operator I	etter of designation:		

## **Operator Info**

Operator Organization Name: COG PRODUCTION LLC Operator Address: 2208 West Main Street 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: 303H	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

Operator Name: COG PRODUCTION LLC
Well Name: EIDER FEDERAL

Well Number: 303H

New surface disturbance?

 Multiple Well Pad Name: EIDER Number: 103H, 203H, 104H,

 FEDERAL
 303H, 304H, 204H

 Number of Legs: 1
 303H, 304H, 204H

Well Work Type: Drill Well Type: OIL WELL

Well Class: HORIZONTAL

Describe other minerals:

Type of Well Pad: MULTIPLE WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 22 Miles

Distance to nearest well: 1414 FT

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO

Distance to lease line: 240 FT

Reservoir well spacing assigned acres Measurement: 240 Acres

Well plat: COG\_Eider\_303H\_C102\_20171010074558.pdf

Well work start Date: 02/01/2017 Duration: 30 DAYS

## **Section 3 - Well Location Table**

Survey Type: RECTANGULAR Describe Survey Type:

Datum: NAD83

Survey number:

#### Vertical Datum: NAVD88

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
210	FSL	200 0	FWL	24S	32E	35	SESW	32.16740 1	- 103.6475 23	LEA	NEW MEXI		F		352 5	0	0
210	FSL	200 0	FWL	24S	32E	35	SESW	32.16740 1	- 103.6475 23	LEA	NEW MEXI				352 5	0	0
330	FSL	165 0	FWL	24S	32E	26	NESW	32.16772 8	- 103.6486 54	LEA	NEW MEXI		F	NMNM 120907	-975	450 0	450 0

## Operator Name: COG PRODUCTION LLC

Well Name: EIDER FEDERAL

Well Number: 303H

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 0	FSL	165 0	FWL	24S	32E	26	NESW	32.18770 3	- 103.6486	LEA	NEW MEXI		F	NMNM 120907	- 618	170 00	971 1
 									51						6		
241	FSL	165	FWL	24S	32E	26		32.18797		LEA	NEW		F	NMNM	-		972
0		0					NESW	8	103.6486 51		MEXI	MEXI		120907	620 0	84	5

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

03/26/2018

APD ID: 10400023170

**Operator Name: COG PRODUCTION LLC** 

Well Name: EIDER FEDERAL

Submission Date: 10/10/2017

Highlighted data reflects the most recent changes Show Final Text

Well Type: OIL WELL

## Well Number: 303H Well Work Type: Drill

## **Section 1 - Geologic Formations**

Formation		in a sub- Antonio	<b>True Vertical</b>	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1	QUATERNARY	3526	0	0		NONE	No
2	RUSTLER	2597	929	929		NONE	No
3	TOP SALT	2264	1262	1262		NONE	No
4	BASE OF SALT	-1070	4596	4596		NONE	No
5	LAMAR	-1298	4824	4824		NONE	No
6	BELL CANYON	-1339	4865	4865		NONE	No
7	CHERRY CANYON	-2248	5774	5774		NATURAL GAS,OIL	No
8	BRUSHY CANYON	-3628	7154	7154	SCHIST	NATURAL GAS,OIL	No
9	BONE SPRING LIME	-5270	8796	8796		NATURAL GAS,OIL	No
10	UPPER AVALON SHALE	-5615	9141	9141		NATURAL GAS,OIL	No
11		-5805	9331	9331		NATURAL GAS,OIL	No
12	BONE SPRING 1ST	-6373	9899	9899		NATURAL GAS,OIL	Yes

#### **Section 2 - Blowout Prevention**

Pressure Rating (PSI): 2M

Rating Depth: 4850

**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

Page 1 of 6

#### **Operator Name: COG PRODUCTION LLC**

Well Name: EIDER FEDERAL

Well Number: 303H

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\_303H\_2M\_Choke\_20171010075541.pdf

#### **BOP Diagram Attachment:**

COG\_Eider\_303H\_2M\_BOP\_20171010075550.pdf

COG\_Eider\_303H\_Flex\_Hose\_20171010075558.pdf

#### Pressure Rating (PSI): 3M

Rating Depth: 9725

**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\_303H\_3M\_Choke\_20171010075623.pdf

#### **BOP Diagram Attachment:**

COG\_Eider\_303H\_3M\_BOP\_20171010075634.pdf

COG\_Eider\_303H\_Flex\_Hose\_20171010075642.pdf

#### **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	N	0	955	0	955			955	J-55	54.5	STC	2.59	1.28	DRY	9.88	DRY	9.88
	INTERMED IATE	12.2 5	9.625	NEW	API	Y	0	4850	0	4850			4850	L-80	40	LTC	1.21	1.54	DRY	5.73	DRY	5.73
3	PRODUCTI ON	8.75	5.5	NEW	API	N	0	17184	0	17184			17184	P- 110	17	LTC	1.59	2.85	DRY	2.69	DRY	2.69

Operator Name: COG PRODUCTION LLC
Well Name: EIDER FEDERAL

Well Number: 303H

#### **Casing Attachments**

Casing ID: 1

String Type:SURFACE

Inspection Document:

Spec Document:

**Tapered String Spec:** 

#### Casing Design Assumptions and Worksheet(s):

COG\_Eider\_303H\_Casing\_Plan\_20171010075710.pdf

Casing ID: 2 String Type: INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

#### **Tapered String Spec:**

COG\_Eider\_303H\_Casing\_Plan\_20171010075715.pdf

Casing Design Assumptions and Worksheet(s):

COG\_Eider\_303H\_Casing\_Plan\_20171010075724.pdf

Casing ID: 3 String Type: PRODUCTION

**Inspection Document:** 

Spec Document:

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

COG\_Eider\_303H\_Casing\_Plan\_20171010075733.pdf

**Section 4 - Cement** 

Operator Name: COG PRODUCTION LLC Well Name: EIDER FEDERAL

#### Well Number: 303H

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% CaCl2
INTERMEDIATE	Lead		955	4850	930	2	12.7	1860	50	Lead: 35:65:6 C Blend	As needed.
INTERMEDIATE	Tail			4850	250	1.34	14.8	335	50	Tail: Class C	2% CaC12
PRODUCTION	Lead		4850	1718 4	680	2.5	11.9	1700	25	Lead: 50:50:10 H Blend	As needed.
PRODUCTION	Tail			1718 4	2030	1.24	14.4	2517	25	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 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 (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	ΡΗ	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
955	4850	OTHER : Saturated Brine	10	10.1							Saturated Brine
4850	1718 4	OTHER : Cut Brine	8.6	9.3							Cut Brine

# Operator Name: COG PRODUCTION LLC

Well Name: EIDER FEDERAL

Well Number: 303H

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	НА	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	955	OTHER : FW Gel	8.6	8.8							FW Gel

## 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: 4705

Anticipated Surface Pressure: 2565.5

Anticipated Bottom Hole Temperature(F): 155

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\_303H\_H2S\_Plan\_20171010080451.pdf COG\_Eider\_303H\_H2S\_Schematic\_20171010080458.pdf Operator Name: COG PRODUCTION LLC Well Name: EIDER FEDERAL

Well Number: 303H

## **Section 8 - Other Information**

Proposed horizontal/directional/multi-lateral plan submission:

COG Eider 303H AC Report 20171010080523.pdf

COG\_Eider\_303H\_Directional\_Plan\_20171010080530.pdf

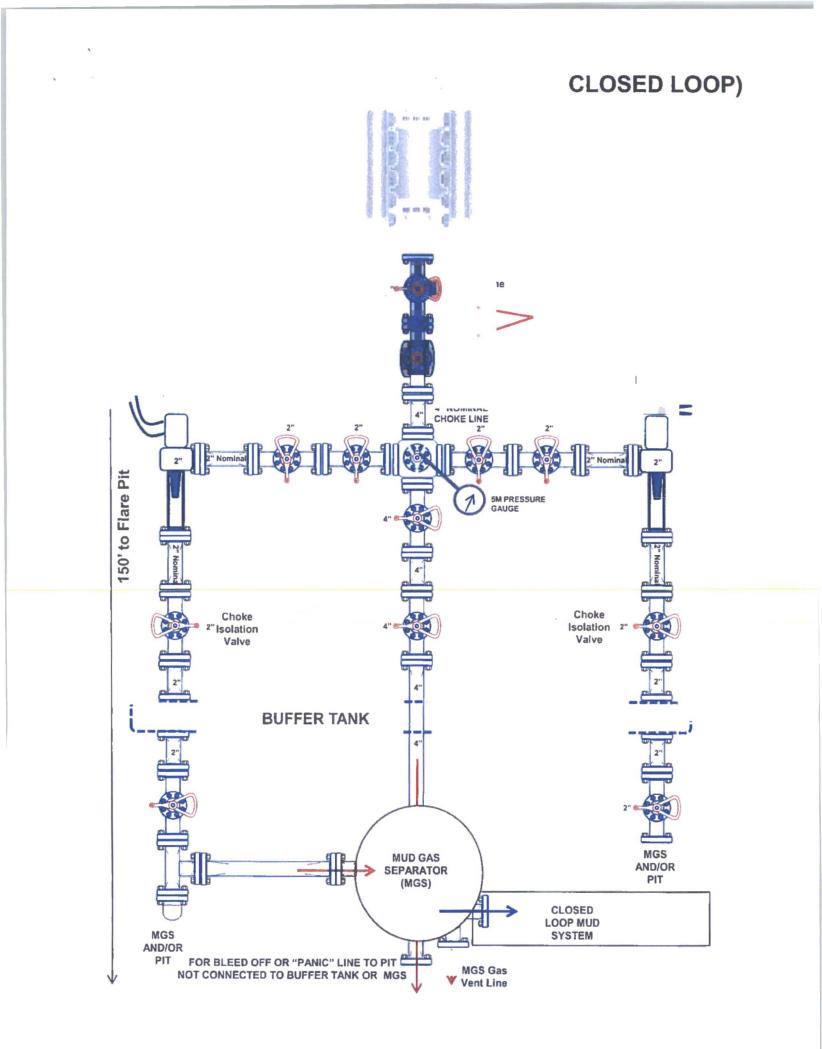
Other proposed operations facets description:

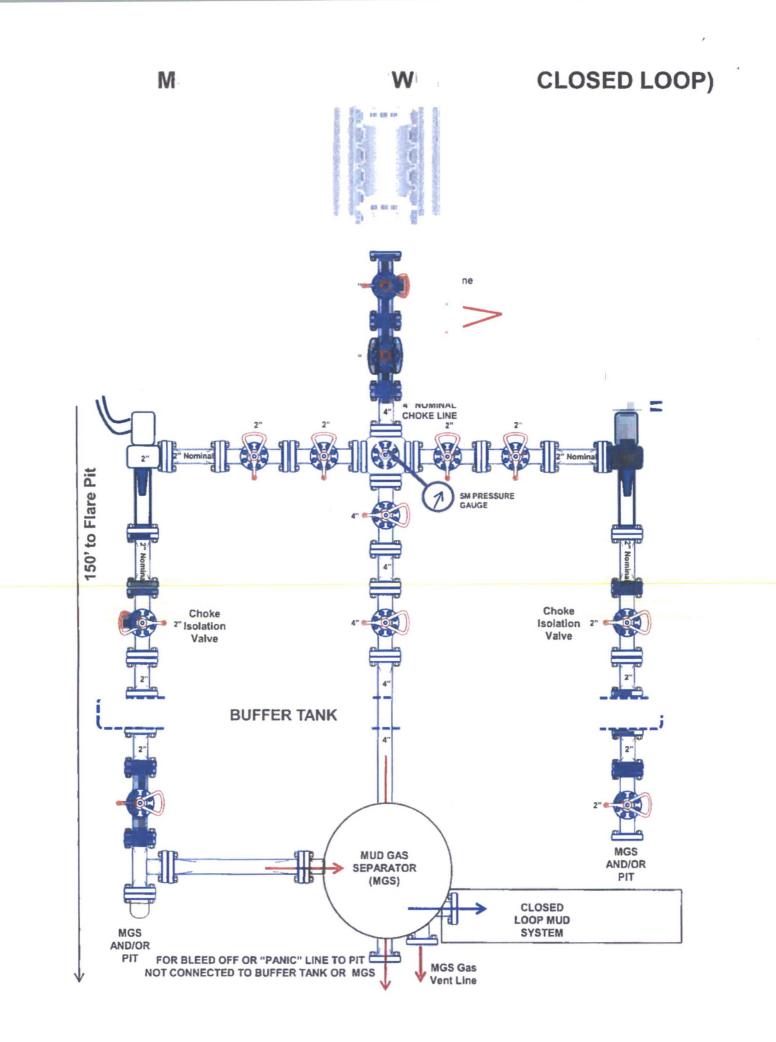
#### Other proposed operations facets attachment:

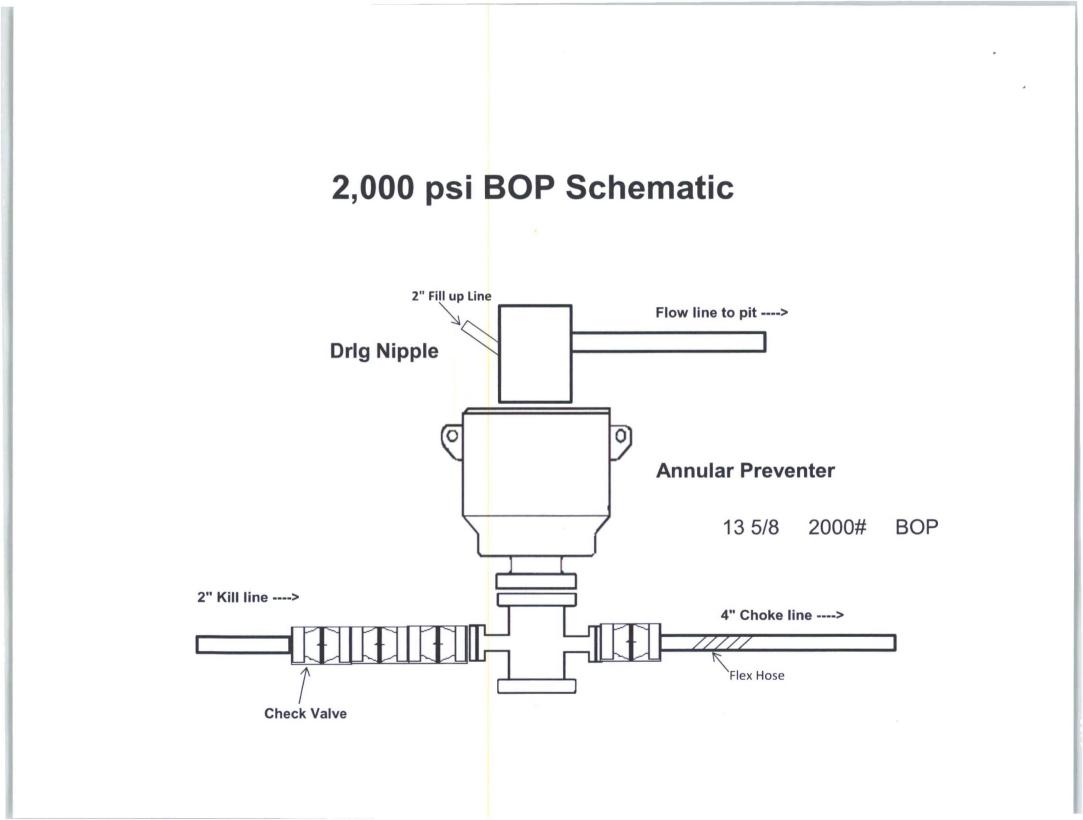
COG\_Eider\_303H\_Drilling\_Plan\_20171010080540.pdf

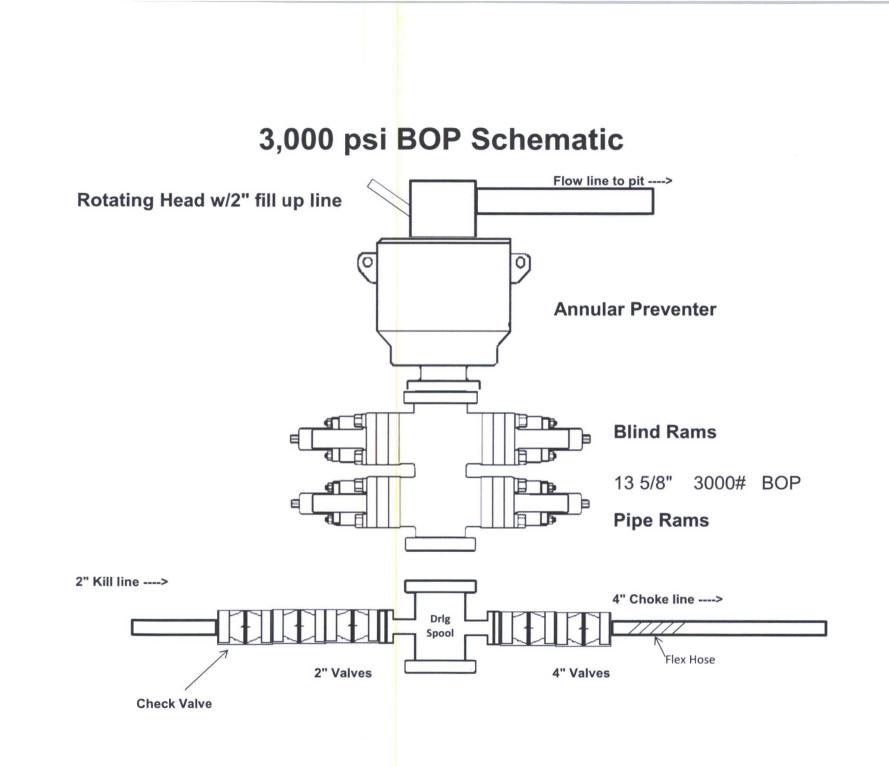
#### Other Variance attachment:

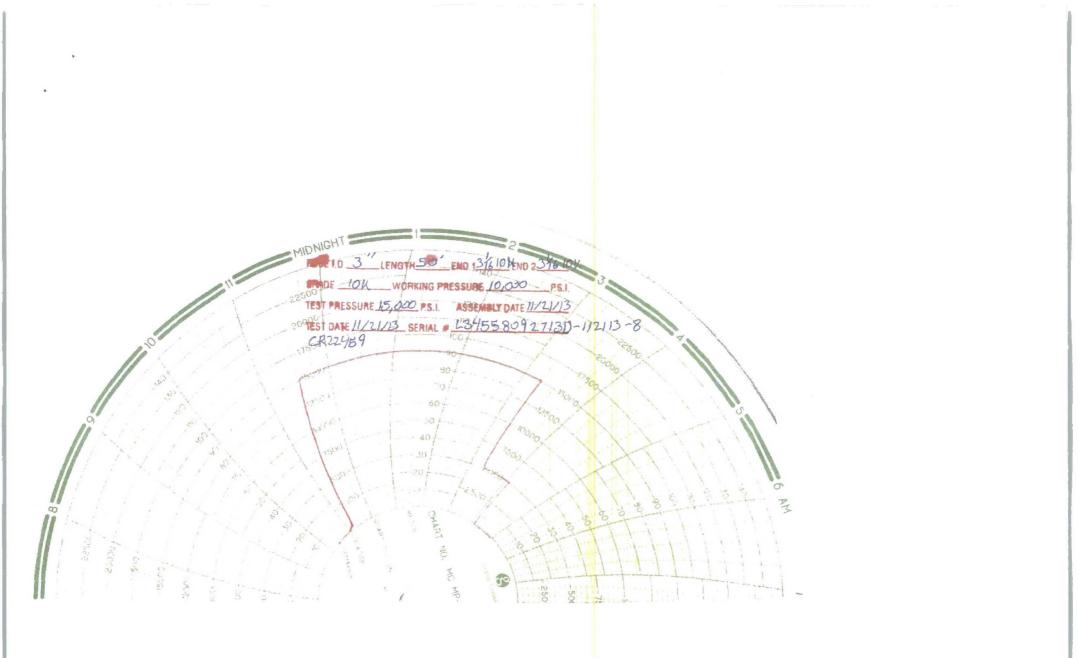
x.











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Hole Size	Casing		Csg. S	ITO	Weight	Grade	Conn	SF	SF Burst	SF
Hole Size	From	То	Usg. 5	IZe	(lbs)	Grade	Conn.	Collapse	SF Burst	Tension
17.5"	0	955	13.375"		54.5	J55	STC	2.59	1.28	9.88
12.25"	0	4000	9.625"		40	J55	LTC	1.22	1.06	3.25
12.25"	4000	4850	9.625"		40	L80	LTC	1.21	1.54	5.73
8.75"	0	17,184	5.5"		17	P110	LTC	1.59	2.85	2.69
BLM				l Minimun	n Safety	Factor	1.125	1	1.6 Dry 1.8 Wet	

Hole Size	Casing		Csg. Size		Weight	Grade	Conn	SF	SF Burst	SF
Hole Size	From	То	Usg. S	126	(lbs)	Grade	conn.	Collapse	SF Burst	Tension
17.5"	0	955	13.375"		54.5	J55	STC	2.59	1.28	9.88
12.25"	0	4000	9.625"		40	J55	LTC	1.22	1.06	3.25
12.25"	4000	4850	9.625"		40	L80	LTC	1.21	1.54	5.73
8.75"	0	17,184	5.5"		17	P110	LTC	1.59	2.85	2.69
			BLM Minimum Safety Factor				Factor	1.125	1	1.6 Dry 1.8 Wet

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Hole Size	Casing		Csg. Si	Wei	ght Grade	Conn.	SF	SF Burst	SF
Hole Size	From	То	Csy. 31	2e (lb	s) Grade	Com.	Collapse	SF BUISt	Tension
17.5"	0	955	13.375	5" 54	.5 J55	STC	2.59	1.28	9.88
12.25"	0	4000	9.625	" 4(	) J55	LTC	1.22	1.06	3.25
12.25"	4000	4850	9.625	" 4(	) L80	LTC	1.21	1.54	5.73
8.75"	0	17,184	5.5"	17	7 P110	LTC	1.59	2.85	2.69
				BLM Minii	num Safet	y Factor	1.125	1	1.6 Dry 1.8 Wet

Hole Size	Casing		Csg. Si	170	Weight	Grade	Conn	SF	SF Burst	SF
HUIG SIZE	From	То	Usy. S	(lbs)		Graue	Com.	Collapse	SF Burst	Tension
17.5"	0	955	13.375"		54.5	J55	STC	2.59	1.28	9.88
12.25"	0	4000	9.625"		40	J55	LTC	1.22	1.06	3.25
12.25"	4000	4850	9.625"		40	L80	LTC	1.21	1.54	5.73
8.75"	0	17,184	5.5"		17	P110	LTC	1.59	2.85	2.69
BLM				l Minimun	n Safety	Factor	1.125	1	1.6 Dry 1.8 Wet	

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#### 1. Geologic Formations

TVD of targe	t 9,725' EOL	Pilot hole depth	NA
MD at TD:	17,184'	Deepest expected fresh water:	380'
Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	929	Water	
Top of Salt	1262	Salt	
Base of Salt	4596	Salt	
Lamar	4824	Salt Water	
Bell Canyon	4865	Salt Water	
Cherry Canyon	5774	Oil/Gas	
Brushy Canyon	7154	Oil/Gas	
Bone Spring Lime	8796	Oil/Gas	
U. Avalon Shale	9141	Oil/Gas	
L. Avalon Shale	9331	Oil/Gas	1
1st Bone Spring Sand	9899	Not Penetrated	
2nd Bone Spring Sand	Х	Not Penetrated	
3rd Bone Spring Sand	Х	Not Penetrated	
Wolfcamp	Х	Not Penetrated	

### 2. Casing Program

Hole Size -	Casing		Csg. Si	Weight		Grade	Conn	SF	SF Burst	SF
	From	То	csy. S	ize	(lbs)	Grade	Conn.	Collapse	or burst	Tension
17.5"	0	955	13.375"		54.5	J55	STC	2.59	1.28	9.88
12.25"	0	4000	9.625"		40	J55	LTC	1.22	1.06	3.25
12.25"	4000	4850	9.625	5"	40	L80	LTC	1.21	1.54	5.73
8.75"	0	17,184	5.5"		17	P110	LTC	1.59	2.85	2.69
BLM					Minimun	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

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

## 3. Cementing Program

Casing	# Sks	Wt. Ib/ gal	YId ft3/ sack	H <sub>2</sub> 0 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	380	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
Suri.	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Inter.	930	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	680	11.9	2.5	19	72	Lead: 50:50:10 H Blend
5.5 Plou	2030	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	тос	% Excess
Surface	0'	50%
1 <sup>st</sup> Intermediate	0'	50%
Production	3,500'	25% OH in Lateral (KOP to EOL) – 40% OH in Vertical

### 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	Туре		x	Tested to:	
			Ann	ular	х	2000 psi	
			Blind	Ram			
12-1/4"	13-5/8"	2M	Pipe	Ram		2M	
			Double	e Ram		∠\VI	
			Other*				
			Ann	ular	x	50% testing pressure	
8-3/4"	13-5/8"	3M	Blind	Ram	х		
			Pipe	Ram	х	3M	
			Double	e 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.
X	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	Viceocity	Water Loop	
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.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

## 6. Logging and Testing Procedures

Logging, Coring and Testing.		
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the	
Y	Completion Report and submitted to the BLM. 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	
Ν	Resistivity	Pilot Hole TD to ICP	
Ν	Density	Pilot Hole TD to ICP	
Y	CBL	Production casing (If cement not circulated to surface)	
Υ	Mud log	Intermediate shoe to TD	
Ν	PEX		

#### 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4705 psi at 9725' TVD
Abnormal Temperature	NO 155 Deg. F.

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

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

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

N H2S is present

Y H2S Plan attached

#### 8. Other Facets of Operation

Y	ls it a walking operation?
Ζ	ls casing pre-set?

×	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: 10400023170

**Operator Name: COG PRODUCTION LLC** 

Well Name: EIDER FEDERAL

Well Type: OIL WELL

#### Submission Date: 10/10/2017

Well Number: 303H 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\_303H\_Existing\_Road\_20171010073618.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\_303H\_Maps\_Plats\_20171010074303.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:

Operator Name: COG PRODUCTION LLC Well Name: EIDER FEDERAL

Well Number: 303H

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: 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 303H 1 Mile Data 20171010074322.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 Eider CTB 1, which is adjacent to the Eider Federal 303H well pad.

operator Name: COG PRODUCTION LLC			
Well Name: EIDER FEDERAL	Well Number: 303H		
Section 5 - Location and Types of Wa	ter Supply		
Water Source Table			
Water source use type: ICE PAD CONSTRUCTION & MAINTENANCE, STIMULATION, SURFACE CASING Describe type: Fresh Water	Water source type: OTHER		
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): 337500	Source volume (acre-feet): 43.50142		
Source volume (gal): 14175000			
Water source use type: INTERMEDIATE/PRODUCTION	CASING Water source type: OTHER		
Describe type: Brine Water			
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): 22500	Source volume (acre-feet): 2.9000947		
Source volume (gal): 945000			

#### Water source and transportation map:

COG\_Eider\_303H\_Fresh\_H2O\_20171010110413.pdf COG\_Eiders\_303H\_Brine\_20171010110422.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 latitude:

Well Longitude:

Well datum:

Well target aquifer:

Operator Name: COG PRODUCTION LLC Well Name: EIDER FEDERAL

Est depth to top of aquifer(ft):

Well Number: 303H

Est thickness of aquifor:

Est. deptil to top of aquiler(it).	Est monicos or aquitor.
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.

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

Well Name: EIDER FEDERAL

#### Well Number: 303H

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: 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 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 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?

Operator Name: COG PRODUCTION LLC

Well Name: EIDER FEDERAL

Well Number: 303H

#### 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\_303H\_GCP\_20171010074410.pdf Comments: GCP Attached.

### Section 9 - Well Site Layout

#### Well Site Layout Diagram:

COG\_Eider\_303H\_CTB\_Flowlines\_20171010074435.pdf COG\_Eider\_303H\_Prod\_Facility\_20171010074446.pdf COG\_Eider\_CTB\_1\_20171010110433.pdf **Comments:** Production will be sent to the Eider CTB 1, which is adjacent to the Eider Federal 303H well pad.

## Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance	Multiple Well Pad Name: EIDER FEDERAL	

Multiple Well Pad Number: 103H, 203H, 104H, 303H, 304H, 204H

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, and 400' of straw waddles will be placed on the south side of the location to reduce sediment impacts to fragile/sensitive soils.

Drainage/Erosion control reclamation: N/A

Well pad proposed disturbance (acres):	Well pad interim reclamation (acres): 4.54	Well pad long term disturbance (acres): 3.16
Road proposed disturbance (acres):	Road interim reclamation (acres): 1.59	Road long term disturbance (acres):
Powerline proposed disturbance (acres): Pipeline proposed disturbance (acres): Other proposed disturbance (acres): Total proposed disturbance:	Powerline interim reclamation (acres): Pipeline interim reclamation (acres): 0 Other interim reclamation (acres): 0 Total interim reclamation: 6.13	(acres): Pipeline long term disturbance (acres): 0 Other long term disturbance (acres): 0
		Total long term disturbance: 4.75

**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

## Operator Name: COG PRODUCTION LLC Well Name: EIDER FEDERAL

Well Number: 303H

and reseeded with BLM approved seed mixture **Topsoil redistribution:** West 80'. East 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:

#### Seed Management

#### Seed Table

Seed type: Seed name:

Source name:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Seed source:

Source address:

Proposed seeding season:

Page 7 of 10

Operator Name: COG PRODUCTION LLC Well Name: EIDER FEDERAL	Well Number: 303H	
	Table and the second	
Seed Summary Seed Type Pounds/Acre	Total pounds/Acre:	
Seed reclamation attachment:		
Operator Contact/Responsible Offic	ial 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		
Need 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_303H_Closed_Loop_20171010074501.pd	If	

## 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:

Operator Name: COG PRODUCTION LLC     Well Name: EIDER FEDERAL	Well Number: 303H
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 ROW Type(s): ROW Applications	Use APD as ROW?
SUPO Additional Information: Use a previously conducted onsite? YES Previous Onsite information: Onsite conpleted on 8/22/ Other SUPO Attachment COG_Eider_303H_Certification_20171010074525.pdf	2017 by Rand French (COG) and Jeff Robertson (BLM).

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#### 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**

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):

# **WAFMSS**

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

#### **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?

Bond Info Data Report

03/26/2018

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: