OCD H	íobb	HOBBS MAY 2	oc'	0		NIN URT ^D
om 3160-3 Aarch 2012)		HOPP	in 2018	FORM OMB N Expires C	APPROVED lo. 1004-0137 October 31, 2014	
UNITED STATES DEPARTMENT OF THE IN		MAY 2	3 1010	5 Lease Serial No.		
BUREAU OF LAND MANA	GEMENT	-	EIN		The News	<u> </u>
APPLICATION FOR PERMIT TO D	RILL OR	REENTERE		6. If Indian, Allotee	or The Name	
UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANA APPLICATION FOR PERMIT TO D a. Type of work:						d No.
b. Type of Well: 🔽 Oil Well 🗌 Gas Well 🗍 Other	🖌 Sin	gle Zone 🔲 Multip	le Zone 🦯	 Lease Name and DOMINATOR 25 F 	Well No. (🕽 EDERAL CO	18728 M 603H
2. Name of Operator COG OPERATING LLC (229137)		<u> </u>	K	9. API Well-No. 30-02.3,-	\rangle	16
	b. Phone No. (432)683-7	(include area code)		10. Field and Pool, or I WILDCAT / WOLF	CAMP	9809
Location of Well (Report location clearly and in accordance with any.	-		$\langle \rangle$	11. Sec., T. R. M. or B	lk.and Survey of	r Area
At surface SESE / 280 FSL / 1290 FEL / LAT 32.09503 / L At proposed prod. zone NWNE / 200 FNL / 1380 FEL / LAT 32.09503 / L				SEC 25 / T25S / R	33E / NMP	
 Distance in miles and direction from nearest town or post office* 19 miles 				12. County or Parish LEA	13. S NM	
logation to persect 200 fact	16. No., of , a 360	eres in lease	17. Spacin 160	g Unit dedicated to this v	well	
8. Distance from proposed location* to nearest well, drilling, completed, 538 feet	19. Proposed 12530 feel	Depth /17362 feet		BIA Bond No. on file MB000215		
I. Elevations (Show whether DF, KDB, RT, GL, etc.) 3336 feet	22. Approxir 03/01/201	nate date work will sta B	n*	23. Estimated duratio 30 days	n	
//	24. Attac					
he following, completed in accordance with the requirements of Onshore	Oil and Gas					
. Well plat certified by a registered surveyor. . A Drilling Plan. . A Surface Use Plan (if the location is on National Forest System L SUPO must be filed with the appropriate Forest Service Office).	ands, the	Item 20 above). 5. Operator certific	ation	ns unless covered by an ormation and/or plans as		,
5. Signature (Electronic-Submission)		(Printed/Typed) Reyes / Ph: (575)	748-6945		Date 12/04/2017	
tle Regulatory Analyst						
pproved by (Signature)	Cody	(Printed/Typed) Layton / Ph: (575)2	34-5959		Date 05/01/2018	
ile Supervisor Multiple Resources	Office	SBAD				
pplication approval does not warrant or certify that the applicant holds induct operations thereon./ onditions of approval, if any, are attached.			ts in the sub	ject lease which would e	entitle the applica	ant to
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crir ates any false, fictitious or fraudulent statements or representations as to	ne for any pe any matter w	rson knowingly and v ithin its jurisdiction.	villfully to n	nake to any department o	or agency of the	United
Continued on page 2) OCP Rec 05/23/18			ave	*(Inst	ructions on	page 2)
	wr	H CONDITI	010	0410		

Approval Date: 05/01/2018

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INSTRUCTIONS

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

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

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

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

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

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

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

NOTIČES

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: 05/01/2018

Additional Operator Remarks

Location of Well

SHL: SESE / 280 FSL / 1290 FEL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.09503 / LONG: -103.521082 (TVD: 0 fcct, MD: 0 fcct))
 PPP: NWSE / 1320 FSL / 1380 FEL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.097884 / LONG: -103.521082 (TVD: 12525 feet, MD: 13600 feet)
 PPP: SWSE / 330 FSL / 1380 FEL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.095167 / LONG: -103.521983 (TVD: 7000 feet) MD: 7000 feet)
 BHL: NWNE / 200 FNL / 1380 FEL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.108213 / LONG: 2010 feet, MD: 12530 feet, MD: 17362 feet)

BLM Point of Contact

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

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(Form 3160-3, page 3)

Review and Appeal Rights

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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: 05/01/2018

(Form 3160-3, page 4)

FMSS

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

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Operator Certification Data Report

05/07/2018

NAME: Mayte Reyes Signed on: 12/04/2017 Title: Regulatory Analyst Street Address: 2208 W Main Street City: Artesia State: NM **Zip:** 88210 Phone: (575)748-6945 Email address: Mreyes1@concho.com **Field Representative** Representative Name: Rand French Street Address: 2208 West Main Street City: Artesia State: NM Zip: 88210 Phone: (575)748-6940

Email address: rfrench@concho.com



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

Application Data Report

Title: Regulatory Analyst

.05/07/2018

APD ID: 10400025196

Operator Name: COG OPERATING LLC

Well Name: DOMINATOR 25 FEDERAL COM

Well Type: OIL WELL

Well Number: 603H Well Work Type: Drill

Tie to previous NOS?

User: Mayte Reyes

Lease Acres: 360

Federal or Indian agreement:

APD Operator: COG OPERATING LLC

Allotted?

Submission Date: 12/04/2017

Is the first lease penetrated for production Federal or Indian? FED

Reservation:

Zip: 79701

Highlighted data reflects the most recent changes

Show Final Text

Submission Date: 12/04/2017

Section 1 - General

APD ID: 10400025196 **BLM Office:** CARLSBAD

Dem Office: OfficeBitb

Federal/Indian APD: FED Lease number: NMNM121958

. . . .

Surface access agreement in place?

Agreement in place? NO

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

Operator letter of designation:

Operator Info

Operator Organization Name: COG OPERATING LLC

Operator Address: 600 West Illinois Ave

Operator PO Box:

Operator City: Midland State: TX

Operator Phone: (432)683-7443

Operator Internet Address: RODOM@CONCHO.COM

Section 2 - Well Information

Well in Master Development Plan? NO	Mater Development Plan name:	
Well in Master SUPO? NO	Master SUPO name:	
Well in Master Drilling Plan? NO	Master Drilling Plan name:	
Well Name: DOMINATOR 25 FEDERAL COM	Well Number: 603H	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: WILDCAT	Pool Name: WOLFCAMP

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

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Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 603H

Desc	ribe o	ther I	niner	als:														
Is the	e prop	osed	well i	in a H	elium	prod	uctio	n area?	N Use E	Existing W	ell Pa	1? NO	Ne	w:	surface o	listurl	oance	?
	of We				.E WE	ELL			-	ple Well P					ber: 103⊦ , 704H, 6			
Well	Class	: HOF	RIZON	IAL										ЗH				
14/-11	\A/~~l-	T							Num	per of Leg	5.							
	Work -																	
	Туре:																	
	ribe V																	
Well	sub-T	ype:	EXPL	ORAT	ORY	(WILE	OCAT))										
Desc	ribe s	ub-ty	pe:															
Dista	ince to	o tow	n: 19	Miles			Dist	tance to	o nearest v	vell: 538 F	T	Dist	ance t	o le	ease line	: 200 I	T=	
Rese	rvoir	well s	pacin	ig ass	ignec	l acre	s Mea	asurem	ent: 160 A	cres								
Well	plat:	СС	G_Do	ominat	tor_60	озн_с	:102_	201712	04074241.	pdf								
Well	work	start	Date:	03/01	/2018				Durat	t ion : 30 DA	AYS							
																·		
	Sec	tion	3 - V	Vell	Loca	ation	n Tak	ole										
Sun	еу Тур	no Pr			۸R													
-							•		-									
	ribe S	-	γιγρε															
	m: NA								Vertic	al Datum:		088						
Surve	ey nui	nber:					r											
	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL	280	FSL	129	FEL		33E	25	Aliquot	32.09503		2	NEW		F	NMNM		0	0
Leg			0					SESE		103.5216 92		MEXI CO	MEXI CO		121958	6		
#1 KOP	280	EQ1	129	FEL	250	225	25	Aliquot	22.00502			NEW				333	0	0
Leg	280	FSL	129	FEL	255	33E	25	SESE	32.09503	- 103.5216	LEA	MEXI			NMNM 121958		U	0
#1										92		со	со					
PPP	PPP 330 FSL 138 FEL 25S 33E 25 Aliquot										LEA	NEW		F	NMNM	-	700	700
Leg #1			0	}				SWSE	7	103.5219 83		MEXI CO	MEXI CO		121958	366 4	0	0

Page 2 of 3

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 603H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	QW	TVD
PPP	132 0	FSL	138 0	FEL	25S	33E	25	Aliquot	32.09788 4	- 103.5219	LEA	NEW MEXI	NEW MEXI	F	NMNM 114987	- 918	136 00	125 25
#1	Ŭ		Ŭ					NWSE	т 	82		CO	CO		114007	9	00	25
EXIT	330	FNL	138	FEL	25S	33E	25	Aliquot	32.10785 6	- 103.5219	LEA	1	NEW MEXI	F	NMNM 121958	- 916	172 00	125 02
Leg #1			, ,					NWNE	0	8		CO	CO		121956	6	00	02
BHL Leg	200	FNL	138 0	FEL	25S	33E	25	Aliquot NWNE	32.10821 3	- 103.5216	LEA	NEW MEXI	NEW MEXI	F	NMNM 121958	- 919	173 62	125 30
#1										92		co	co			4		

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Page 3 of 3

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FMSS

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

Drilling Plan Data Report

CARLAN STOR

APD ID: 10400025196

Operator Name: COG OPERATING LLC

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 603H

Submission Date: 12/04/2017

Highlighted data reflects the most recent changes

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1	UNKNOWN	3336	0	0		NONE	No
2	RUSTLER	2270	1066	1066		NONE	No
3	TOP SALT	1930	1406	1406	SALT	NONE	No
4	BASE OF SALT	-1589	4926	4926	ANHYDRITE	NONE	No
5	LAMAR	-1850	5186	5186	LIMESTONE	NONE	No
6	BELL CANYON	-1875	5211	5211		NONE	No
7	CHERRY CANYON	-2877	6213	6213		NATURAL GAS,OIL	No
8	BRUSHY CANYON	-4517	7853	7853		NATURAL GAS,OIL	No
9	BONE SPRING LIME	-5986	9322	9322	SANDSTONE	NATURAL GAS,OIL	No
en e	······································		1				
10	UPPER AVALON SHALE	-6203	9539	9539	SHALE	NATURAL GAS,OIL	No
11		-6400	9736	9736		NATURAL GAS,OIL	No
12	BONE SPRING 1ST	-6965	10301	10301		NATURAL GAS,OIL	No
13	BONE SPRING 2ND	-7510	10846	10846			No
14	BONE SPRING 3RD	-8590	11926	11926		NATURAL GAS,OIL	No
15	WOLFCAMP	-9050	12386	12386		NATURAL GAS,OIL	Yes
16	STRAWN	-11000	14336	14336		NATURAL GAS,OIL	No

Section 2 - Blowout Prevention

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 603H

Pressure Rating (PSI): 10M Rating Depth: 12530

Equipment: Annular, Blind Ram, Pipe Ram. Accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to the choke manifold. See attached for specs and hydrostatic test chart.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

Choke Diagram Attachment:

COG_Dominator_603H_10M_Choke_20171204125012.pdf

BOP Diagram Attachment:

COG_Dominator_603H_FlexHose_20171204075600.pdf

COG_Dominator_603H_10M_BOP_20171204125020.pdf

Pressure Rating (PSI): 5M

Rating Depth: 11955

Equipment: Annular, Blind Ram, Pipe Ram. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold **Requesting Variance?** YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to the choke manifold. See attached for specs and hydrostatic test chart.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

Choke Diagram Attachment:

COG_Dominator_603H_5M_Choke_20171204075631.pdf

BOP Diagram Attachment:

COG_Dominator_603H_5M_BOP_20171204075637.pdf

COG_Dominator_603H_FlexHose_20171204075646.pdf

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 603H

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	13.5	10.75	NEW	API	N	0	1095	0	1095	-8653	-9678	1095	N-80		OTHER - BTC	4.93	1.18	DRY	20.8 7	DRY	20.8 7
1	INTERMED IATE	9.87 5	7.875	NEW	API	Y	0	11955	0	11955		- 20153	11955	P- 110		OTHER - BTC	1.27	1.05	DRY	3.06	DRY	3.06
	PRODUCTI ON	6.75	5.0	NEW	API	N	0	17362	0	17362		- 21064	17362	P- 110		OTHER - BTC	1.86	1.93	DRY	3.23	DRY	3.23

Casing Attachments

Casing ID: 1

String Type:SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COG_Dominator_603H_Casing_Rpt_20171204075753.pdf

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 603H

Casing Attachments

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Casing ID:	2	String Type: INTERMEDIATE
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Inspection Document:

Spec Document:

Tapered String Spec:

COG_Dominator_603H_Casing_Rpt_20171204075802.pdf

Casing Design Assumptions and Worksheet(s):

COG_Dominator_603H_Casing_Rpt_20171204075808.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COG_Dominator_603H_Casing_Rpt_20171204075940.pdf

Section	4 - Ce	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1095	160	1.75	13.5	280	[•] 50	Lead: Class C	4% Gel + 1% CaCl2
SURFACE (Tail		0 ;	1095	250	1.34	14.8	335	50	Tail: Class C	2% CaCl2
	Lead		0	1:195 5	980	3.6	10.3	3528	50	Tuned Light Blend	As needed
INTERMEDIATE	Tail		0	1195 5	250	1.08	16.4	270	50	Tail: Class H	As needed
PRODUCTION	Lead	4	0	1736 2	120	2.5	11.9	300	35	Lead: 50:50:10 H Blend	As needed

Page 4 of 7

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 603H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		0	1736 2	650	1.24	14.4	806	35	Tail: 50:50:2 Class H Blend	As needed

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

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

										_	
Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (Ibs/100 sqft)	H	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1195 5	1736 2	OIL-BASED MUD	9.6	12							ОВМ
0	1095	OTHER : FW Gel	8.6	8.8						,	FW Gel
1095	1195 5	OTHER : Brine Diesel Emulsion	8.4	9.			_				Brine Diesel Emulsion

Circulating Medium Table

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 603H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures: None planned

List of open and cased hole logs run in the well: CNL,GR

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7820

Anticipated Surface Pressure: 5063.39

Anticipated Bottom Hole Temperature(F): 180

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

COG_Dominator_603H_H2S_SUP_20171204080332.pdf COG_Dominator_603H_H2S_Schem_20171204080425.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

COG_Dominator_603H_AC_Rpt_20171204080520.pdf

GG_Dominator_603H_Direct_Rpt_20171204080529.pdf

Other proposed operations facets description:

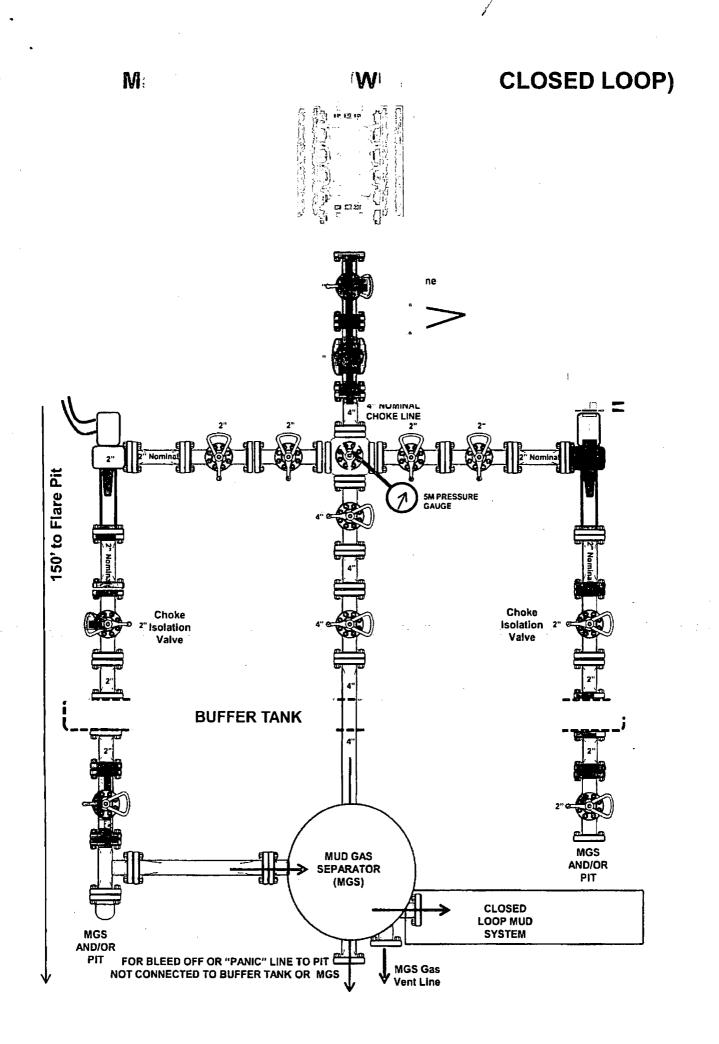
Drilling Program Attached

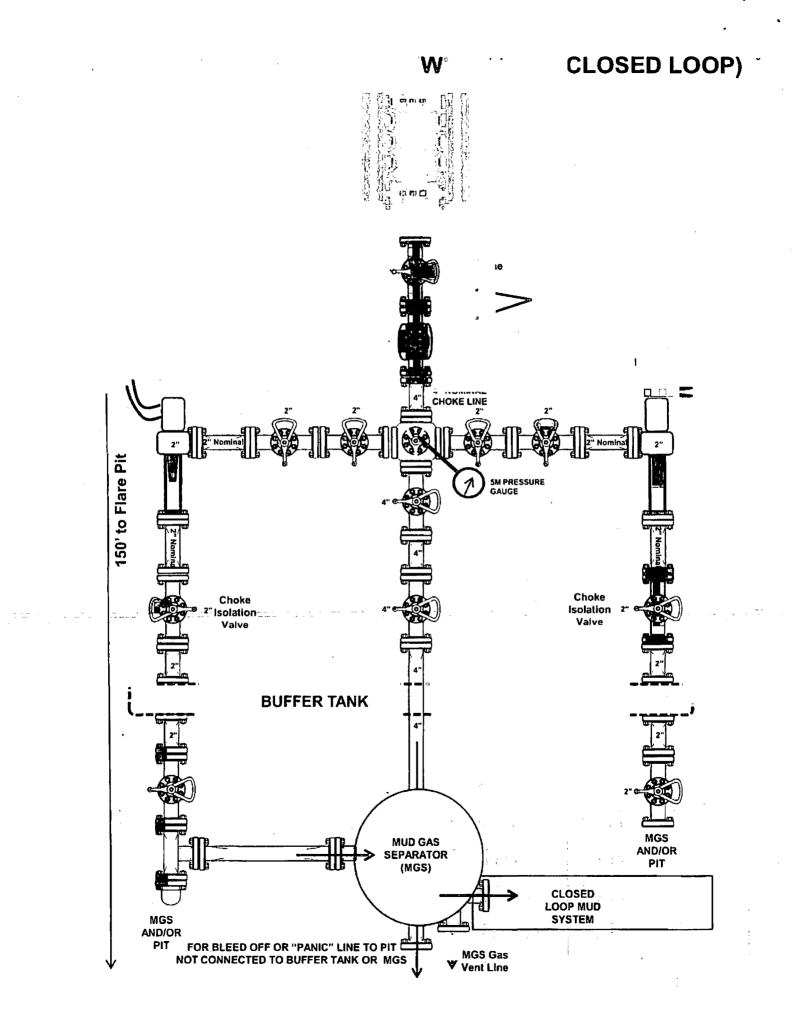
Other proposed operations facets attachment:

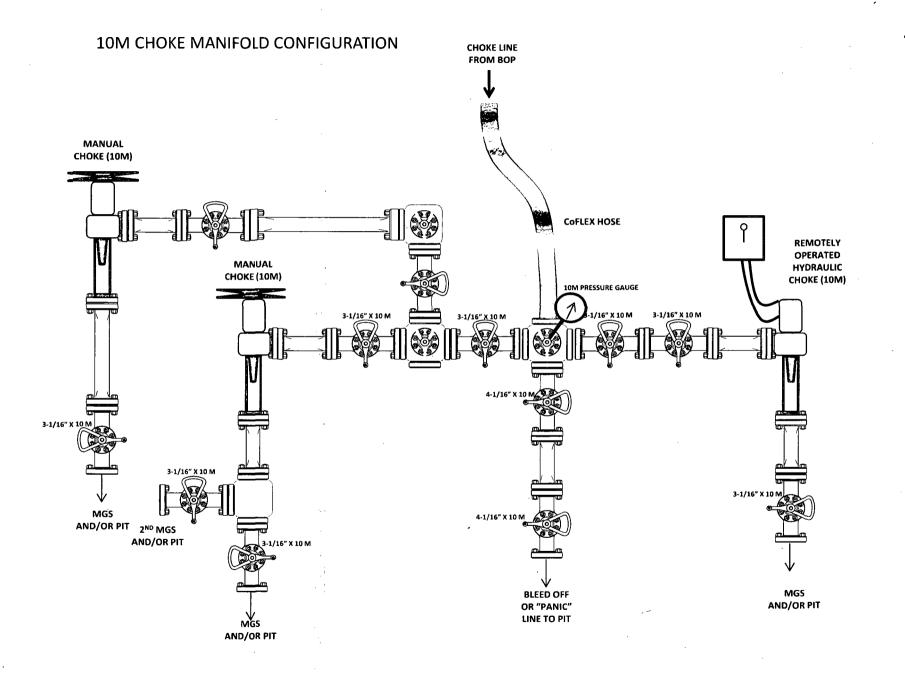
COG_Dominator_603H_Drill_Rpt_20171204080541.pdf

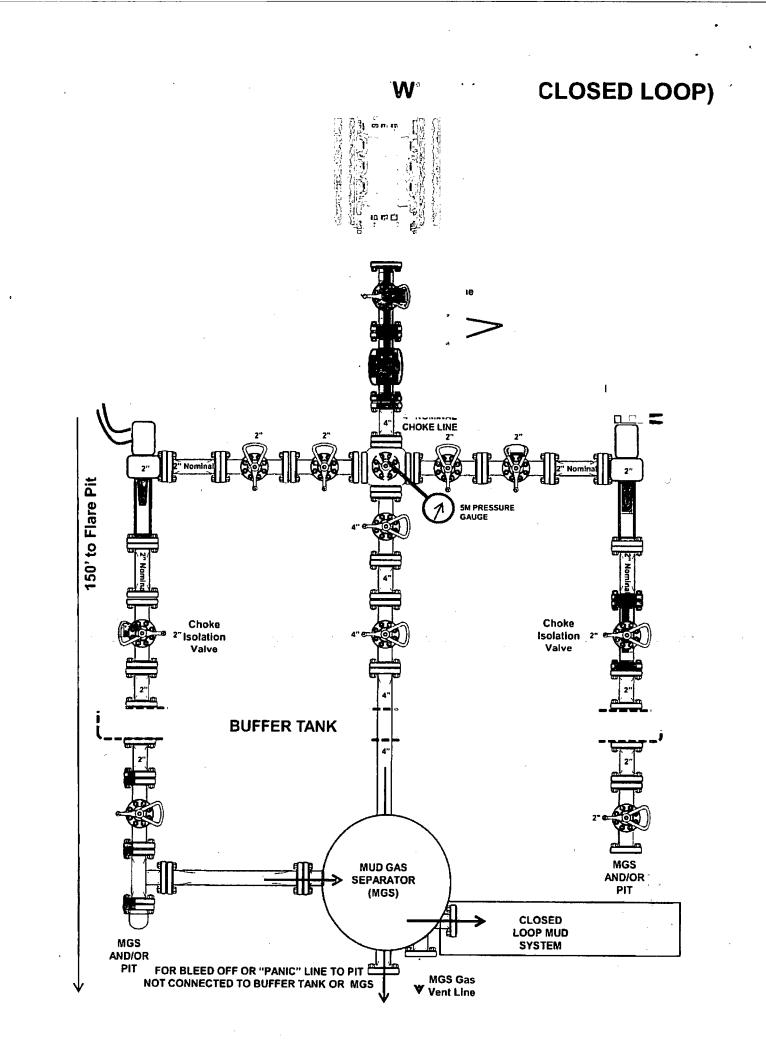
Other Variance attachment:

COG_6.75_5M_Variance_WCP_20171130155611.pdf

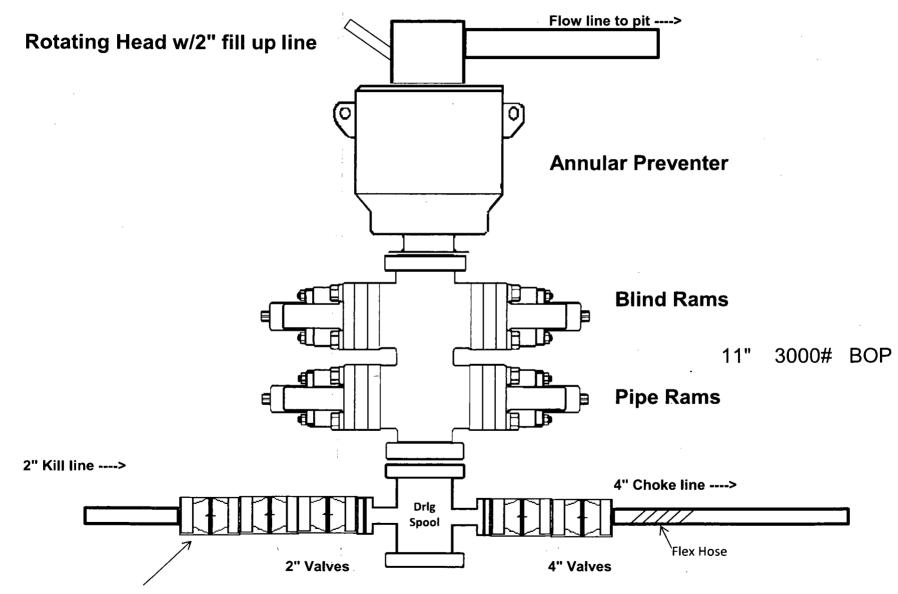




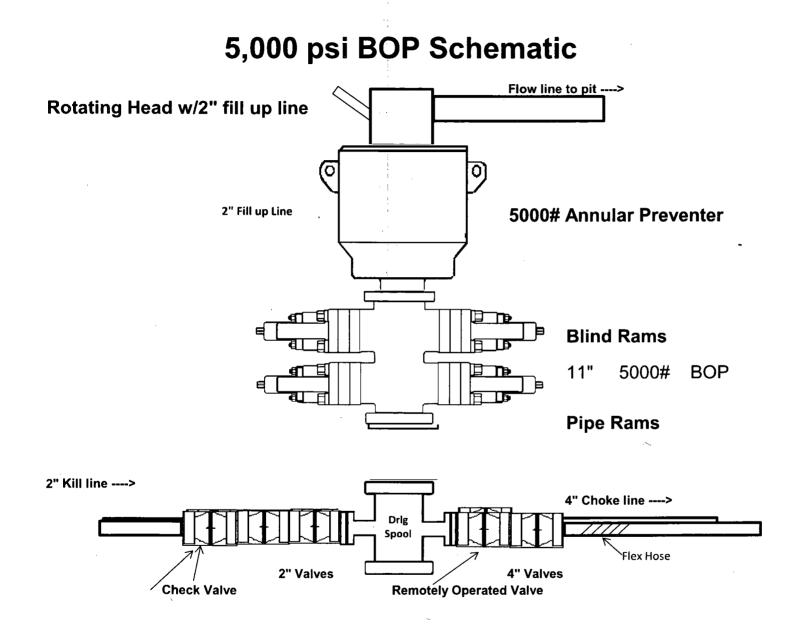




3,000 psi BOP Schematic



Check Valve



Casing Program

		ising erval		Weight			SF	05.5	SF
Hole Size	From	То	Csg. Size	(lbs)	Grade	Conn.	Collapse	SF Burst	Body
13.5"	0	1095	10.75"	45.5	N80	BTC	4.93	1.18	20.87
9.875"	.875" 0 1		7.875"	29.7	P110	BTC	1.27	1.05	3.06
6.75"	0 11455		5.5"	23	P110	BTC	1.86	1.93	3.23
6.75"	11455	17,362	5"	18	P110	втс	1.86	1.93	3.23
- <u></u>				BLM Min	imum Sa	fety 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. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

COG Operating LLC, Columbus Federal Com 21H

	1 <u>1</u> .		the sector of th		المعرك أحرر يحج					1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
	Hole	Casing	Interval	Csg. Size	Weight	Grade	Conn.	SF	SF	SF
1	Size	From	То		(lbs)			Col	Burst	Tension
	13.5"	0'	1025'	10 3/4"	45.5	L80	STC	5.14	.86	14.7
	9 7/8"	0'	11,500'	7 5/8"	29.7	HCP110	BTC	1.125	1.27	2.74
	6 3/4"	0'	22,397	5.5"	23	P110	Ultra SF	1.95	1.95	2.5
		an a	بر بر به م بر بر مسر درسانه رب و احما ا		BLM M	inimum Sa	fety Factor	1.125	1.125	1.6 Dry
	÷		1.11		ant see					1.8 Wet

Casing Program

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

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- Burst SF on Surf is 0.86 > 0.7.
 5.5" Ultra SF connection OD = 5.65".

COG Operating LLC, Columbus Federal Com 21H

Casing Program

Hole	Casing Interval		Csg. Size	Weight	Grade	Conn.	SF	SF	SF
Size	From	То		(lbs)			Col	Burst	Tension
13.5"	0'	1025'	10 3⁄4"	45.5	L80	STC	5.14	.86	14.7
9 7/8"	0'	11,500'	7 5/8"	29.7	HCP110	BTC	1.125	1.27	2.74
6 ³ /4"	0'	22,397'	5.5"	23	P110	Ultra SF	1.95	1.95	2.5
				BLM M	inimum Sa	1.125	1.125	1.6 Dry	
				, i i i i i i i i i i i i i i i i i i i					1.8 Wet

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

- Burst SF on Surf is 0.86 > 0.7.
- 5.5" Ultra SF connection OD = 5.65".

COG Operating LLC, Columbus Federal Com 21H

Casing Program

						S. 1. 1.			•	
	Hole	Casing	Interval	Csg. Size	Weight	Grade	Conn.	SF	SF	SF
	Size	From	To		(lbs)			Col	Burst	Tension
1	13.5"	0'	1025'	10 3⁄4"	45.5	L80	STC	5.14	.86	14.7
, ,	9 7/8"	0'	11,500'	7-5/8"	29.7	HCP110	BTC	1.125	1.27	2.74
.'	6 ³ /4"	0'	22,397'	5.5"	23	P110	Ultra SF [*]	1.95	1.95	2.5
	- C M			and straight of	BLM M	inimum Sa	fety Factor	1.125	1.125	1.6 Dry
		• •			· · · ·					1.8 Wet

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

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2. 学生级专用 的复数

- Burst SF on Surf is 0.86 > 0.7.
- 5.5" Ultra SF connection OD = 5.65".

Casing Program

Hole Size	Casing Interval		Con Sizo	Weight	Grade	Conn	SF Conn.	SF Burst	SF
nole Size	From	То	Csg. Size	(lbs)	Grade	Conn.	Collapse	SF Burst	Body
13.5"	0	1095	10.75"	45.5	N80	BTC	4.93	1.18	20.87
9.875"	0	11955	7.875"	29.7	P110	BTC	1.27	1.05	3.06
6.75"	0	11455	5.5"	23	P110	BTC	1.86	1.93	3.23
6.75"	11455	17,362	5"	18	P110	втс	1.86	1.93	3.23
				BLM Min	imum Sa	fety 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. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Casing Program

	Casing Interval			Weight		Conn	SF	05.0	SF
Hole Size	From	То	Csg. Size	(lbs)	os) Grade Conn. Collapse	Collapse	SF Burst	Body	
13,5"	0	1095	10.75"	45.5	N80	BTC	4,93	1,18	20.87
9.875"	0	11955	7.875"	29.7	P110	BTC	1.27	1.05	3.06
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Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

1. Geologic Formations

.

TVD of target	12,530' EOL	Pilot hole depth	NA
MD at TD:	17,362'	Deepest expected fresh water:	142'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1066	Water	
Top of Salt	1406	Salt	
Base of Salt	4926	Salt	
Lamar	5186	Salt Water	
Bell Canyon	5211	Salt Water	
Cherry Canyon	6213	Oil/Gas	
Brushy Canyon	7853	Oil/Gas	
Bone Spring Lime	9322	Oil/Gas	
U. Avalon Shale	9539	Oil/Gas	
L. Avalon Shale	9736	Oil/Gas	
1st Bone Spring Sand	10301	Oil/Gas	
2nd Bone Spring Sand	10846	Oil/Gas	
3rd Bone Spring Sand	11926	Oil/Gas	
Wolfcamp	12386	Target Oil/Gas	
Strawn	14336	Not Penetrated	

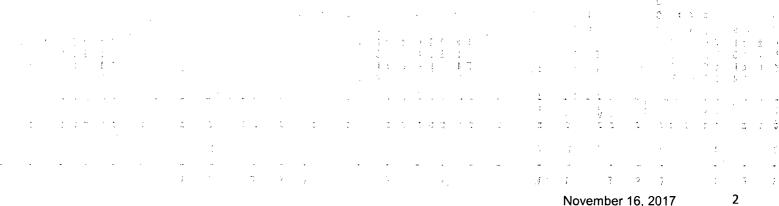
2. Casing Program

Hole Size	Casing			Weight Grade	Conn.	SF	CE Durent	SF	
	From	То	Csg. Size	(Ibs)			Collapse	SF Burst	Body
13.5"	0	1095	10.75"	45.5	N80	BTC	4.93	1.18	20.87
9.875"	0	11955	7.875"	29.7	P110	BTC	1.27	1.05	3.06
6.75"	0	11455	5.5"	23	P110	BTC	1.86	1.93	3.23
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				BLM Min	imum Sat	fety 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. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and

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

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



November 16, 2017

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	YId ft3/ sack	H ₂ 0 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	160	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	980	10.3	3.6	21.48	16	Tuned Light Blend
Inter.	250	16.4	1.08	4.32	8	Tail: Class H
Dred	120	11.9	2.5	19	72	Lead: 50:50:10 H Blend
Prod	650	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 st Intermediate	0'.	50%
Production	11,455'	35% OH in Lateral (KOP to EOL)

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	equired Type WP		x	Tested to:	
			Ann	ular	х	3000 psi	
9-7/8"	13-5/8"		Blind	Ram			
		5M	Pipe Ram			5M	
			Double Ram				
			Other*				
			Annular		x	50% testing pressure	
6-3/4"	13-5/8"	10M	Blind	Ram	х		
			Pipe Ram		х	10M	
			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.
х	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		Туре	Weight	Viscosity	osity Water Loss	
From	То	гуре	(ppg)	viscosity	Water Loss	
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C	
Surf csg	9-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 9	28-34	N/C	
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 12	35-45	<20	

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

		PVT/Pason/Visual Monitoring
What will be used to monitor the loss	or doin of fluid?	IDV/1/Decon/Vieual Monitoring
		1F V 1/F dSUH/ VISUALIVUHUUHUU

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
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	7820 psi at 12530' TVD
Abnormal Temperature	NO 180 Deg. F.

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

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

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

N H2S is present

Y H2S Plan attached

8. Other Facets of Operation

Y	Is it a walking operation?
Z	ls casing pre-set?

x	H2S Plan.
×	BOP & Choke Schematics.
, x	Directional Plan



1. Component and Preventer Compatibility Table

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

Component	OD	Preventer	RWP
Drill pipe	4.5"		
HWDP	4.5"		
Jars	4.875" - 5"	Upper 4.5-7" VBR	10M
Drill collars and MWD tools	4.75" - 5"	Lower 4.5-7" VBR	TOM
Mud Motor	4.75"-5.875"		
Production casing	5.5" & 5"		1
ALL	0-13.625"	Annular	5M
Open-hole	-	Blind Rams	10M

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

2. Well Control and Shut-In Procedures

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

Drilling:

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

Tripping:

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

Well Control Plan For 10M MASP Section of Wellbore



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

Running Casing

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

No Pipe in Hole (Open Hole)

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

Pulling BHA through BOP Stack

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





- 2. With BHA in the stack:
 - a. If possible to pick up high enough, pull BHA clear of the stack

i. Follow "Open Hole" procedure above

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

vii. Prepare for well kill operation.

3. Well Control Drills

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

Drilling/Pit:

Action	Responsible Party
Initiate Drill	
Lift Flow Sensor or Pit Float to indicate a kickImmediately record start time	Company Representative / Rig Manager
 Recognition Driller and/or Crew recognizes indicator Driller stop drilling, pick up off bottom and spaces out drill string, stop pumps and rotary Conduct flow check 	Driller
Initiate ActionSound alarm, notify rig crew that the well is flowing	Company Representative / Rig Manager
 Reaction Driller moves BOP remote and stands by Crew is at their assigned stations Time is stopped Record time and drill type in the Drilling Report 	Driller / Crew





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

Action	Responsible Party	
Initiate Drill		
Lift Flow Sensor or Pit Float to indicate a kickImmediately record start time	Company Representative / Rig Manager	
Recognition		
 Driller recognizes indicator Suspends tripping operations Conduct Flow Check 	Driller	
Initiate Action Sound alarm, notify rig crew that the well is flowing 	Company Representative / Rig Manager	
Reaction		
 Position tool joint above rotary and set slips Stab FOSV and close valve Driller moves to BOP remote and stands by Crew is at their assigned stations Time is stopped Record time and drill type in the Drilling Report 	Driller / Crew	

<u>Choke</u>

Action	Responsible Party
 Have designated choke operator on station at the choke panel Close annular preventer Pressure annulus up 200-300 psi Pump slowly to bump the float and obtain SIDPP At choke operator instruction, slowly bring pumps online to slow pump rate while holding casing pressure constant at the SICP. 	Company Man /
• Allow time for the well to stabilize. Mark and record circulating drillpipe pressure.	Rig Manager & Rig Crew
• Measure time lag on drillpipe gauge after choke adjustments.	
• Hold casing pressure constant as pumps are slowed down while choke is closed.	
• Record time and drill type in the Drilling Report	

FMSS

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

SUPO Data Report

Highlighted data reflects the most

recent changes

Show Final Text

APD ID: 10400025196

Operator Name: COG OPERATING LLC

Well Name: DOMINATOR 25 FEDERAL COM

Well Type: OIL WELL

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

COG_Dominator_Existing_Rd_20171121094216.pdf

Existing Road Purpose: ACCESS

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

COG_Dominator_603H_Roads_20171204080607.pdf

New road type: TWO-TRACK

Length: 112773 Feet Width (ft.): 30

Max slope (%): 33

Max grade (%): 1

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns. **New road access plan or profile prepared?** NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Submission Date: 12/04/2017

Well Number: 603H Well Work Type: Drill

Row(s) Exist? NO

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 603H

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_Dominator_603H_1Mile_Data_20171204080624.pdf

Existing Wells description:

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Production will be sent to the Dominator 25 Federal CTB 4 facility. A surface flow line of approximately 170.3' of 3.5" steel pipe carrying oil, gas and water under a maximum pressure of 125 psi will follow the road to the facility at the Dominator 25 Federal CTB 4 location. We plan to install a 4" surface polyethylene pipe transporting Gas Lift Gas from the Dominator 25 Federal CTB 4 to the multiple well pad that includes the Dominator 25 Federal Com #103H, #303H, #402H, #302H, #704H, #604H, 603H and #703H wells. The surface Gas Lift Gas pipe of approximately 170.3' under a maximum pressure of 125 psi will be installed no farther than 10 feet from the edge of the road. **Production Facilities map:**

COG_Dominator_603H_Flowlines_20171204080646.pdf COG_Dominator_CTB_4_20171204080658.pdf COG_Dominator_603H_ProdFacil_20171204080708.pdf

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 603H

Water Source TableWater source use type: INTERMEDIATE/PRODUCTION CASINGWater source type: OTHERDescribe type: Brine Water.Source longitude:Source latitude:Source longitude:Source datum:Water source permit type: PRIVATE CONTRACT,PRIVATE CONTRACTSource transport method: TRUCKING,TRUCKINGSource volume (acre-feet): 1.9333965Source volume (barrels): 15000Source volume (acre-feet): 1.9333965Source volume (gal): 630000Water source type: OTHERDescribe type: Fresh Water.Source latitude:Source datum:Source latitude:Water source permit type: PRIVATE CONTRACT,PRIVATE CONTRACTSource longitude:Source latitude:Source longitude:Source latitude:Source longitude:Source datum:Water source permit type: PRIVATE CONTRACT,PRIVATE CONTRACT Source land ownership: PRIVATEWater source transport method: PIPELINE,PIPELINE Source transport method: PIPELINE,PIPELINE Source transport method: PIPELINE,PIPELINEWater source volume (barrels): 225000Source volume (acre-feet): 29.000946	/ater source use type: INTERMEDIATE/PRODUCTION CASING Water source type: OTHER escribe type: Brine Water. Source longitude: ource latitude: Source longitude: ource datum: ////////////////////////////////////	Section 5 - Location and Types of Water Sup	ply
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	ource volume (gal): 9450000		Source volume (acre-feet): 29.000946

Water source and transportation map:

COG_Dominator_Frac_Pond_20171127081721.pdf COG_Dominator_603H_BrineH2O_20171204080745.pdf COG_Dominator_603H_FreshH2O_20171204080754.pdf

Water source comments: Fresh water will be obtained from the C-01285 Dinwiddle Cattle Co Water Well located in Section 5, T26S, R36E. The water will be stored in the proposed Dominator 25 Federal Frac Pond located in section 25, T25S. R33E. Brine water will be obtained from the Malaga II Brine station located in Section 12. T23S. R28E. **New water well?** NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Page 3 of 10

Operator Name: COG OPERATING LLC Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 603H

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 available. If not available onsite, caliche will be purchased from approved BLM federal pit located in Section 23. T25S. R33E. **Construction Materials source location attachment:**

Section 7 - Methods for Handling Waste

Waste type: DRILLING

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

Amount of waste: 6000 barrels

Waste disposal frequency : One Time Only

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

Safe containmant attachment:

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

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Waste type: SEWAGE

Waste content description: Human waste and gray water

Amount of waste: 250 gallons

Waste disposal frequency : Weekly

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

Owerster Newsel		OPERATING LLC
Unerator Name	1.1.11.7	
	000	

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 603H

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: 125 pounds

Waste disposal frequency : Weekly

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

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

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.)

Reserve pit 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

Reserve pit width (ft.)

Cuttings Area being used? NO

Are you storing cuttings on location? YES

Description of cuttings location Roll off cuttings containers on tracks

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

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

WCuttings area liner

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 603H

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: YES

Ancillary Facilities attachment:

COG Dominator 603H GCP 20171204080816.pdf

Comments: GCP Attached

Section 9 - Well Site Layout

Well Site Layout Diagram:

COG_Dominator_603H_Flowlines_20171204080842.pdf COG_Dominator_603H_ProdFacil_20171204080852.pdf

COG Dominator CTB 4 20171204080901.pdf

Comments: Production will be sent to the Dominator 25 Federal CTB 4 facility. A surface flow line of approximately 170.3' of 3.5" steel pipe carrying oil, gas and water under a maximum pressure of 125 psi will follow the road to the facility at the Dominator 25 Federal CTB 4 location. We plan to install a 4" surface polyethylene pipe transporting Gas Lift Gas from the Dominator 25 Federal CTB 4 to the multiple well pad that includes the Dominator 25 Federal Com #103H, #303H, #402H, #302H, #704H, #604H, 603H and #703H wells. The surface Gas Lift Gas pipe of approximately 170.3' 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: DOMINATOR 25 FEDERAL COM

Multiple Well Pad Number: 103H, 303H, 402H, 302H, 704H, 604H, 603H AND 703H

Recontouring attachment:

Drainage/Erosion control construction: Due to the flat topography of this location and the stockpiling of the topsoil on the east side of the location, no erosion control is necessary.

Drainage/Erosion control reclamation: Reclaim the east side 80'.

Road proposed disturbance (acres):Road interim reclamation (acres):3.62Road long term disturbance3.623.623.623.62Powerline proposed disturbance09900000	listurbance
(acres): 00(acres): 0Pipeline proposed disturbance (acres): 0.02Pipeline interim reclamation (acres): 0.02(acres): 0.02Pipeline long term dis (acres): 0.02Other proposed disturbance (acres): 22.96Other interim reclamation: 4.37(acres): 0Total proposed disturbance: 30.27Total interim reclamation: 4.3722.96	disturbance isturbance urbance (acres):

Disturbance Comments:

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 603H

Reconstruction method: New construction of pad.

Topsoil redistribution: East.

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:

Seed source:

Source address:

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 603H

PLS pounds per acre:

Proposed seeding season:

Seed Summary	
Seed Type	Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Rand

Phone: (432)254-5556

Last Name: French

Total pounds/Acre:

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_Dominator_603H_FlexHose_20171204080925.pdf

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:

•	Opèrator Name: COG OPERATING LLC Well Name: DOMINATOR 25 FEDERAL COM	Well Number: 603H	
	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

SUPO Additional Information:

Use a previously conducted onsite? YES

Previous Onsite information: Onsite completed on 10/5/2017 by Rand French (COG); Gerald Herrera (COG) and Jeff Robertson (BLM).

Use APD as ROW?

Other SUPO Attachment

COG_Dominator_603H_Certif_20171204081029.pdf

'ERATOR CERTIFICATION

under my direct supervision, have inspected the drill site and I am familiar with the conditions that presently exist; that I and Federal laws applicable to this operation; that the statements e, to the best of my knowledge, true and correct; and that the work s proposed herein will be performed in conformity with this APD onditions under which it is approved. I also certify that I, or COG responsible for the operations conducted under this application. These t to the provisions of 18 U.S.C. 1001 for the filing of false statements. day of NOVEN 2, 2017.

Reyes

st, Artesia, NM 88210

ove signatory): Rand French E-mail: <u>ncho.com</u>

)



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

Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

PWD disturbance (acres):

PWD Data Repo

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

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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):

4

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

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB000215

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Bond Info Data Report

05/07/2018

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: