Form 3160-3 (March 2012)

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

OCD Hobbs

UNITED STATES
DEPARTMENT OF THE INTERIOR OF THE BUREAU OF LAND MANAGEMENT

DOT TO THE INTERIOR OF T

5. Lease Serial No.,

DEPARTMENT OF THE IN	GEMENT	18,		NMNM121958	
BUREAU OF LAND MANA  APPLICATION FOR PERMIT TO E  Ta. Type of work: DRILL REENTER	RILL OR	REENTER	EINE	6. If Indian, Allotee	or Tribe Name
a. Type of work: DRILL REENTER	3	Her		7. If Unit or CA Agre	ement-Name and No.
o. Type of Well: Voil Well Gas Well Ojber		gle Zone Multip		(8. Lease Name and DOMINATOR 25'F	
Name of Operator COG OPERATING LLC 229/3	37)		1/2	9. APÌ Wèll-No.	-44704
000 144 (182 ) 4 14231 174 70704	36. Phone No. (432)683-7	(include area code)		10. Field and Pool, or WILDCAT / BONE	Exploratory 4790
Location of Well (Report location clearly and in accordance with any	State requirem	ents *)		11. Sec., T. R. M. or B	
At surface SWSW / 310 FSL / 862 FWL / LAT 32.095105				SEC 25 / T25S / R	-
At proposed prod. zone NWNW / 200 FNL / 330 FWL / LAT	32,108217.	/ LONG -103,5335	34	>	
Distance in miles and direction from nearest town or post office*     19 miles				12. County or Parish LEA	13. State NM
5. Distance from proposed*	16. No. of a	cres in lease	17. Spacing	Unit dedicated to this	well
location to nearest 200 feet property or lease line, ft. (Also to nearest drig, unit line, if any)	360	X/ //	160		
B. Distance from proposed location*	19. Proposed	l-Depth /	20. BLM/B	IA Bond No. on file	
to nearest well, drilling, completed, 541 feet applied for, on this lease, ft.	10155 feet	/14958 feet	FED: NN	<b>1</b> B000215	
Elevations (Show whether DF, KDB, RT, GL, etc.)	<b>,</b> , , ,	mate date work will sta	rt*	23. Estimated duratio	n
3341 feet	03/01/20/1	<del></del>		30 days	
	√24. Attac	hments			
he following, completed in accordance with the requirements of Onshore	Oil and Gas	Order No.1, must be a	ttached to thi	s form:	
. Well plat certified by a registered surveyor.		4. Bond to cover t	he operation	is unless covered by an	existing bond on file (see
A Drilling Plan.		Item 20 above).	•	•	,
. 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	Operator certific     Such other site     BLM.		rmation and/or plans as	s may be required by the
5. Signature	Name	(Printed/Typed)			Date
(Electronic Submission)		Reyes / Ph: (575)	748-6945		11/28/2017
tle Regulatory Analyst	<del></del>				
pproved by (Signature) ) ) (Electronic Submission)		(Printed/Typed) Layton / Ph: (575)2	234-5959		Date 04/09/2018
itle Supervisor Multiple Resources	Office	SBAD			
pplication approval does not warrant or certify that the applicant holds onduct operations thereon.			its in the sub	ect lease which would e	entitle the applicant to
onditions of approval, if any, are attached.					
tle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cri ates any false, fictitious or fraudulent statements or representations as to			willfully to m	ake to any department of	or agency of the United
Continued on any 2)				*/1 · - 4	mustians on any 2)
(Continued on page 2)  6CP Dec 04/18/18				*(Inst	ructions on page 2)
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rpproval Date: 04/09/2018

#### **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.

#### NOTIČES

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

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

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

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

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

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

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

(Continued on page 3)

(Form 3160-3, page 2)

**Approval Date: 04/09/2018** 

## **Additional Operator Remarks**

#### **Location of Well**

1. SHL: SWSW / 310 FSL / 862 FWL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.095105 / LONG: -103.531812 ( TVD: 0 feet MD: 0,feet )

PPP: SWSW / 330 FSL / 330 FWL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.095159 / LONG: -103.53353 (TVD: 4300 feet MD: 4300 feet )

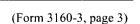
BHL: NWNW / 200 FNL / 330 FWL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.108217 / LONG: -103.53353 ( TVD: 10155) feet, MD: 14958 feet )

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

Name: Sipra Dahal

Title: Legal Instruments Examiner

Phone: 5752345983 Email: sdahal@blm.gov



**Approval Date: 04/09/2018** 

#### **Review and Appeal Rights**

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



(Form 3160-3, page 4)



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

# Application Data Report

APD ID: 10400024946

Submission Date: 11/28/2017

Highlighted data reflects the most

recent changes

Well Type: OIL WELL

Well Number: 308H

**Show Final Text** 

Well Work Type: Drill

#### Section 1 - General

APD ID:

10400024946

**Operator Name: COG OPERATING LLC** 

Well Name: DOMINATOR 25 FEDERAL

Tie to previous NOS?

Submission Date: 11/28/2017

**BLM Office: CARLSBAD** 

User: Mayte Reyes

Title: Regulatory Analyst

Federal/Indian APD: FED

Lease number: NMNM121958

Lease Acres: 360

Reservation:

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

Surface access agreement in place?

Allotted?

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

**Permitting Agent? NO** 

APD Operator: COG OPERATING LLC

Operator letter of designation:

#### Operator Info

**Operator Organization Name: COG OPERATING LLC** 

Operator Address: 600 West Illinois Ave

Zip: 79701

**Operator PO Box:** 

Operator City: Midland

State: TX

Operator Phone: (432)683-7443

Operator Internet Address: RODOM@CONCHO.COM

#### **Section 2 - Well Information**

Well in Master Development Plan? NO

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

Well Number: 308H

**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,OIL

Well Name: DOMINATOR 25 FEDERAL

Well Number: 308H

Describe other minerals:

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

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: **DOMINATOR 25 FEDERAL**  Number: 108H, 308H, 408H, 609H, 714H AND 713H

Number of Legs:

Well Class: HORIZONTAL

Well Work Type: Drill Well Type: OIL WELL

**Describe Well Type:** 

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town: 19 Miles

Distance to nearest well: 541 FT

Distance to lease line: 200 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat:

COG\_Dominator\_308H\_C102\_20171127110529.pdf

Well work start Date: 03/01/2018

**Duration: 30 DAYS** 

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

Survey Type: RECTANGULAR

**Describe Survey Type:** 

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL	310	FSL	862	FWL	25\$	33E	25	Aliquot	32.09510	-	LEA	NEW	NEW	F	NMNM	334	0	0
Leg								sws	5	103.5318			MEXI		121958	1		
#1								w		12		co	СО					
КОР	310	FSL	862	FWL	25S	33E	25	Aliquot	32.09510	-	LEA	NEW	NEW	F	NMNM	334	0	0
Leg				}			}	sws	5	103.5318		MEXI	1		121958	1	'	
#1								w		12		СО	СО					
PPP	330	FSL	330	FWL	25S	33E	25	Aliquot	32.09515	-	LEA	NEW	NEW	F	NMNM	-959	430	430
Leg								sws	9	103.5335			MEXI		121958		0	0
#1								w		3 ᢆ		co	СО					



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

# Drilling Plan Data Report

**APD ID:** 10400024946

Submission Date: 11/28/2017

Highlighted data reflects the most

recent changes

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

Well Number: 308H

**Show Final Text** 

Well Type: OIL WELL

Well Work Type: Drill

# **Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical	1	Lithologies	Mineral Resources	Producing
1	UNKNOWN	3341	Depth 0	Depth 0	Lithologies	NONE	No
2	RUSTLER	2233	1108	1108		NONE	No
3	TOP SALT	1832	1509	1509	SALT	NONE	No
4	BASE OF SALT	-1728	5069	5069	ANHYDRITE	NONE	No
5	LAMAR	-1846	5187	5187	LIMESTONE	NATURAL GAS,OIL	No
6	BELL CANYON	-1888	5229	5229		NONE	No
7	CHERRY CANYON	-2887	6228	6228		NATURAL GAS,OIL	No
8	BRUSHY CANYON	-4467	7808	7808		NATURAL GAS,OIL	No
9	BONE SPRING LIME	-5933	9274	9274	SANDSTONE	NATURAL GAS,OIL	No
10	UPPER AVALON SHALE	-6007	9348	9348	SHALE	NATURAL GAS,OIL	No
11		-6618	9959	9959		NATURAL GAS,OIL	. No
12		-6768	10109	10109	•	NATURAL GAS,OIL	Yes
13	BONE SPRING 1ST	-6965	10306	10306		NATURAL GAS,OIL	No

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

Well Name: DOMINATOR 25 FEDERAL Well Number: 308H

Pressure Rating (PSI): 2M

Rating Depth: 5215

**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 308H 2M Choke 20171127113152.pdf

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

.COG\_Dominator\_308H\_2M\_BOP\_20171127113201.pdf

COG\_Dominator\_308H\_Flex\_Hose\_20171127113211.pdf

Pressure Rating (PSI): 3M

Rating Depth: 10155

**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\_308H\_3M\_Choke\_20171127113237.pdf

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

COG Dominator 308H 3M BOP 20171127113243.pdf

COG Dominator 308H Flex Hose 20171127113252.pdf

Well Name: DOMINATOR 25 FEDERAL

Well Number: 308H

# **Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1135	0	1135	-8653	-9678	1135	J-55	54.5	STC	2.18	1.17	DRY	8.31	DRY	8.31
2	INTERMED IATE	12.2 5	9.625	NEW	API	Υ	О	5215	0	5215	-8653	- 20153		L-80	40	LTC	1.13	1.48	DRY	5.73	DRY	5.73
3	PRODUCTI ON	8.75	5.5	NEW	API	N	0	14958	0	14958	-8653	- 21064	14958	P- 110	17	LTC	1.52	2.73	DRY	2.58	DRY	2.58

#### **Casing Attachments**

Casing ID: 1

String Type: SURFACE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

 $COG\_Dominator\_308H\_Cas\_Rpt\_20171127113439.pdf$ 

Well Name: DOMINATOR 25 FEDERAL Well Number: 308H

#### **Casing Attachments**

Casing ID: 2

String Type: INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

COG\_Dominator\_308H\_Cas\_Rpt\_20171127113447.pdf

Casing Design Assumptions and Worksheet(s):

COG\_Dominator\_308H\_Cas\_Rpt\_20171127113455.pdf

Casing ID: 3

String Type: PRODUCTION

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

COG\_Dominator\_308H\_Cas\_Rpt\_20171127113506.pdf

#### **Section 4 - Cement**

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1135	490	1.75	13.5	857	50	Lead: Class C	4% Gel + 1% CaCl2
SURFACE	Tail		0	1135	250	1.34	14.8	335	50	Tail: Class C	2% CaCl2
INTERMEDIATE	Lead		0	5215	1000	2	12.7	2000	50	Lead: 35:65:6 C Blend	As needed
INTERMEDIATE	Tail		0	5215	250	1.34	14.8	335	50	Tail: Class C	2% CaCI
PRODUCTION	Lead		0	1495 8	690	2.5	11.9	1725	25	Lead: 50:50:10 H Blend	As needed

Well Name: DOMINATOR 25 FEDERAL

Well Number: 308H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		0	1495 8	1350	1.24	14.4	1674	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 requirements will be kept on location at all times.

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

#### **Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
5215	1495 8	OTHER : Cut Brine	8.6	9.3							Cut Brine
0	1135	OTHER : FW Gel	8.6	8.8							FW Gel
1135	5215	OTHER : Saturated Brine	10	10.1							Saturated Brine

Well Name: DOMINATOR 25 FEDERAL Well Number: 308H

#### 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: 4915** 

**Anticipated Surface Pressure: 2680.9** 

Anticipated Bottom Hole Temperature(F): 160

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\_308H\_H2S\_Schem\_20171127113915.pdf COG\_Dominator\_308H\_H2S\_SUP\_20171127113923.pdf

#### Section 8 - Other Information

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

COG\_Dominator\_308H\_Direct\_Rpt\_20171127113956.pdf COG\_Dominator\_308H\_AC Rpt 20171127114017.pdf

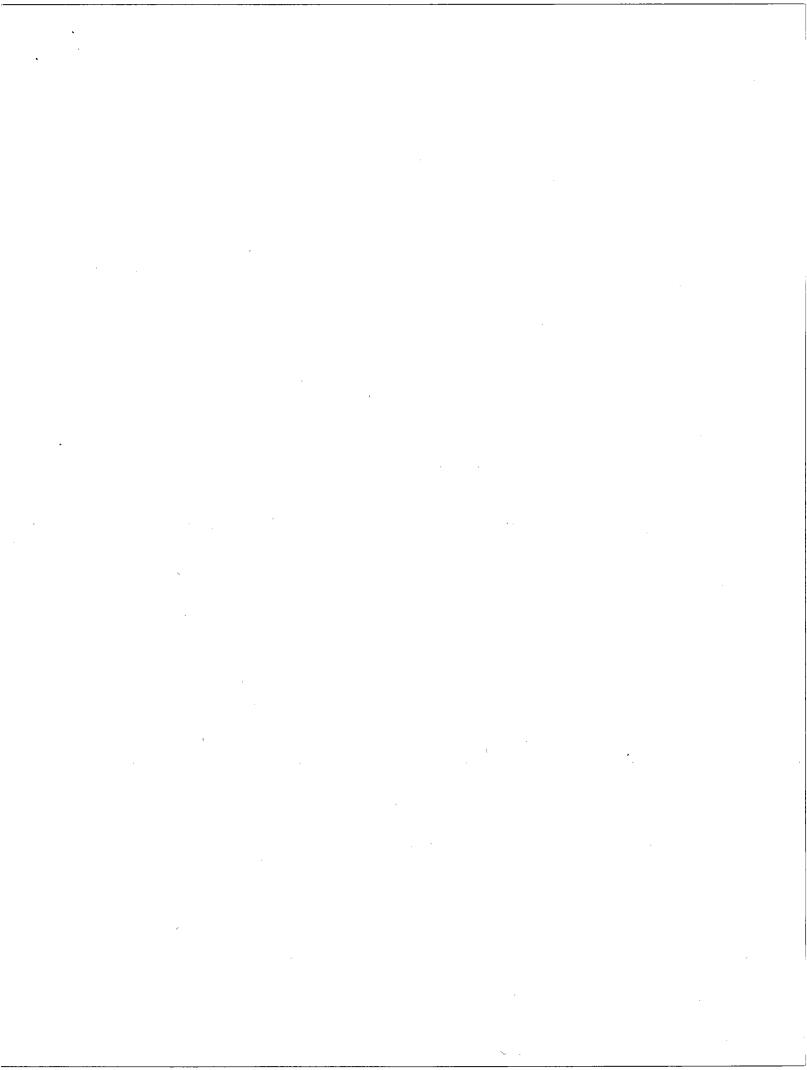
Other proposed operations facets description:

**Drilling Program Attached** 

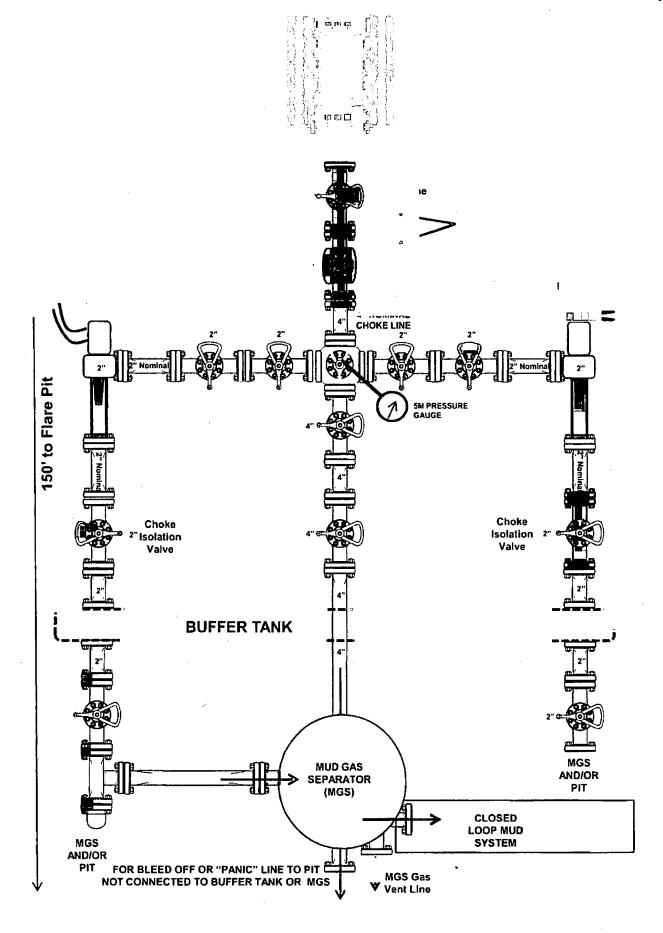
Other proposed operations facets attachment:

COG\_Dominator\_308H\_Drill\_Rpt\_20171127114025.pdf

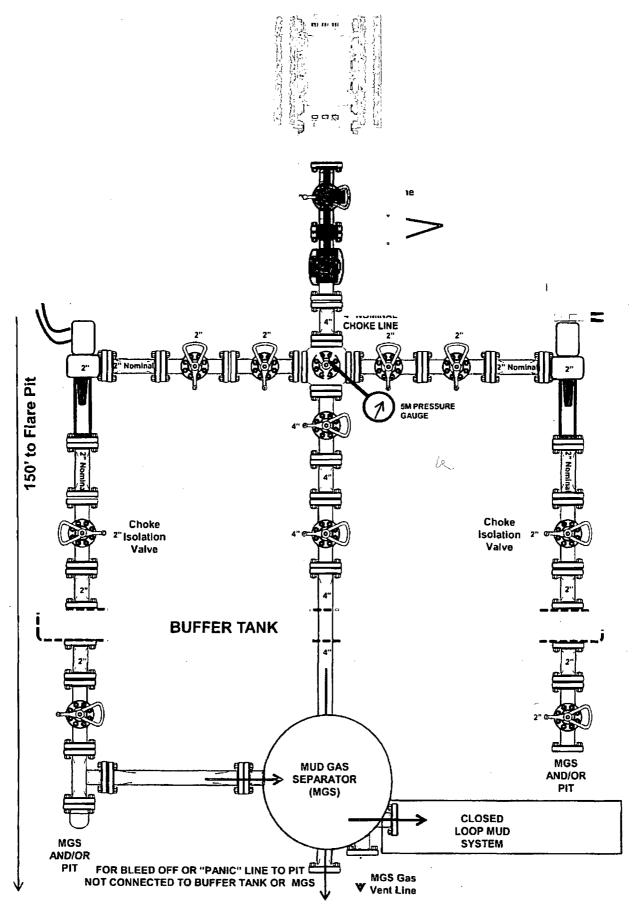
Other Variance attachment:



M: **CLOSED LOOP)** W CHOKE LINE 150' to Flare Pit 5M PRESSURE GAUGE Choke Choke Isolation 2 Isolation Valve Valve **BUFFER TANK** MUD GAS SEPARATOR (MGS) MGS AND/OR PIT CLOSED LOOP MUD SYSTEM MGS AND/OR PIT FOR BLEED OFF OR "PANIC" LINE TO PIT TO NOT CONNECTED TO BUFFER TANK OR MGS MGS Gas Vent Line



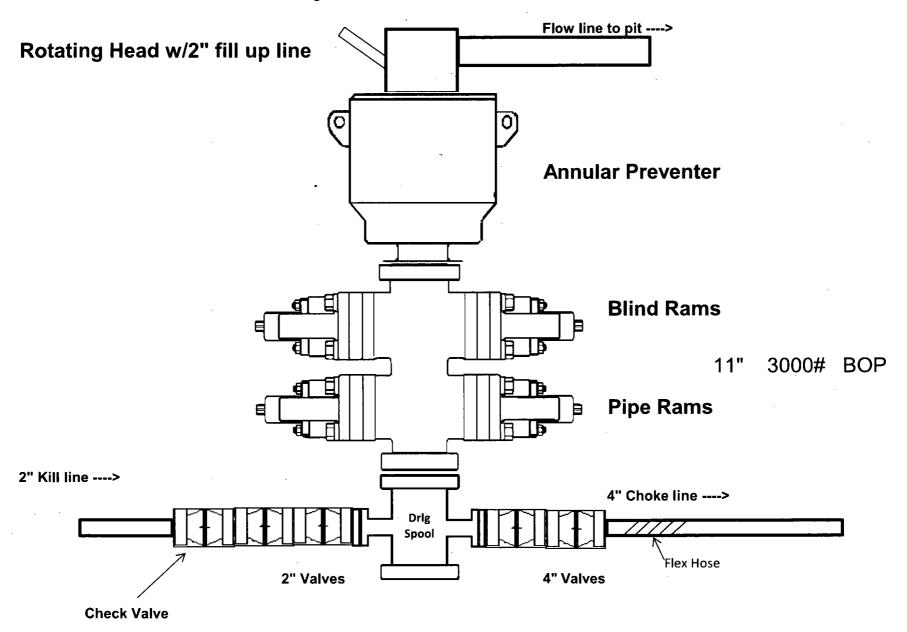
# **CLOSED LOOP)**



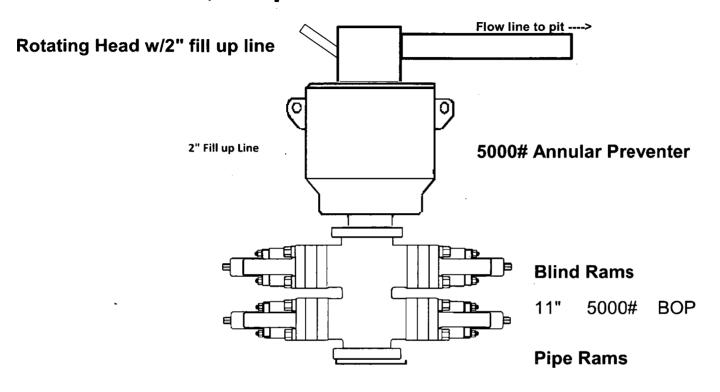
MGS Gas Vent Line

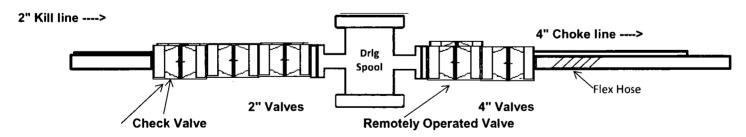
FOR BLEED OFF OR "PANIC" LINE TO PIT TO NOT CONNECTED TO BUFFER TANK OR MGS

# 3,000 psi BOP Schematic

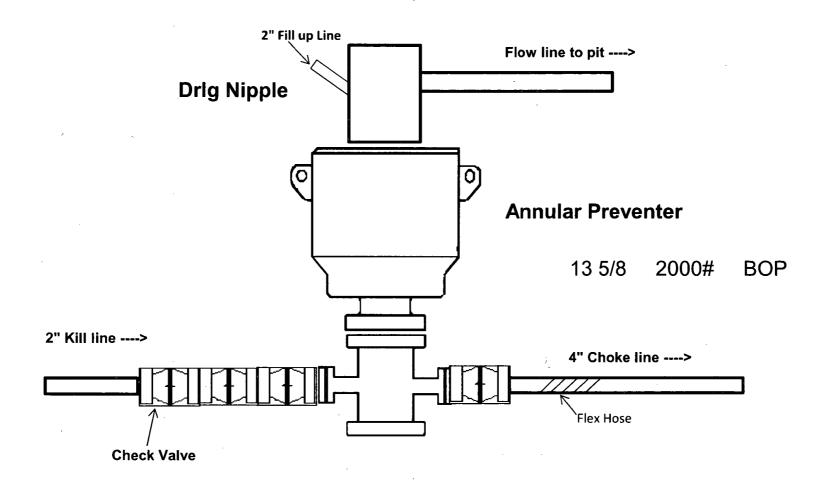


# 5,000 psi BOP Schematic





# 2,000 psi BOP Schematic





# **Internal Hydrostatic Test Graph**

Customer: Odessa

Pick Ticket #: 371501

**Verification** 

#### **Hose Specifications**

Hose Type
Ck
I.D.
3.5"

Working Pressure

10000 PSI

35'
O.D.
5.30"
Burst Pressure

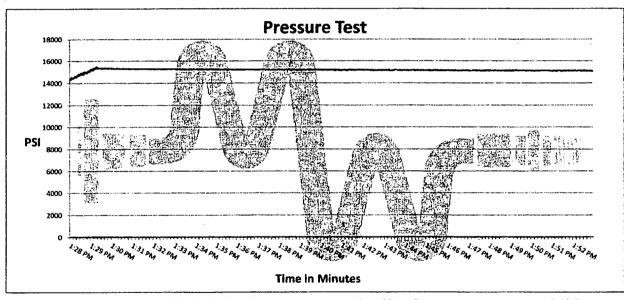
Length

Standard Safety Multiplier Applies

Type of Fitting
4 1/16 10K
Die Size
5.80°
Hose Serial #
12354

Coupling Method
Swage
Final O.D.
5.83\*

Hose Assembly Serial # 371501



Test Pressure 15000 PSI Time Held at Test Pressure 24 2/4 Minutes **Actual Burst Pressure** 

Peak Pressure 15512 PSI

Comments: Hose assembly pressure tested with water at amblent temperature.

Tested By: Richard Davis

/

Approved By: Garles Asi

Hole Size	Cá	asing	Csg. Size	Weight	Crada	Conn.	SF	SF Burst	SF
Hole Size	From	То	Csg. Size	(lbs)	Grade	Conn.	Collapse	or burst	Tension
17.5"	0	1135	13.375"	54.5	J55	STC	2.18	1.17	8.31
12.25"	0	4000	9.625"	40	J55	LTC	1.22	1.01	3.25
12.25"	4000	5215	9.625"	40	L80	LTC	1.13	1.48	5.73
8.75"	0	14,958	5.5"	17	P110	LTC	1.52	2.73	2.58
			BLN	1 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

# COG Operating LLC, Columbus Federal Com 21H

# **Casing Program**

Hole	Casing	g Interval	Csg. Size	Weight	Grade	Conn.	SF	SF	SF
Size	From	To		(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
	<del></del>			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

- 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	To		(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	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

- 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	g Interval	Csg. Size	Weight	Grade	Conn.	SF	SF	SF
Size	From	To		(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	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

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

Hole Size	Ca	asing	Csg. Size	Weight	Grada	Conn.	SF	SF Burst	SF
HOIE SIZE	From	То	Csy. 5120	(lbs)	Grade	Comi.	Collapse	or burst	Tension
17.5"	0	1135	13.375"	54.5	J55	STC	2.18	1.17	8.31
12.25"	0	4000	9.625"	40	J55	LTC	1.22	1.01	3.25
12.25"	4000	5215	9.625"	40	L80	LTC	1.13	1.48	5.73
8.75"	0	14,958	5.5"	17	P110	LTC	1.52	2.73	2.58
			В	LM 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

Hole Size	Ca	sing	Csg. Si	Weight	eight Grade	Conn	SF	SF Burst	SF
noie Size	From	То	Usy. 51	(lbs)	Graue	Com.	Collapse	or burst	Tension
17.5"	0	1135	13.375	54.5	J55	STC	2.18	1.17	8.31
12.25"	0	4000	9.625	" 40	J55	LTC	1.22	1.01	3.25
12.25"	4000	5215_	9.625	" 40	L80	LTC	1.13	1.48	5.73
8.75"	0	14,958	5.5"	17	P110	LTC	1.52	2.73	2.58
				BLM Minimur	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

Hole Size	Ca	asing	Com Si	W	Weight		C	SF	SF Burst	SF
note Size	From	То	Csg. Si	Ze (	(lbs)	Grade Conn.		Collapse	or burst	Tension
17.5"	0	1135	13.375	5" :	54.5	J55	STC	2.18	1.17	8.31
12.25"	0	4000	9.625	37	40	J55	LTC	1.22	1.01	3.25
12.25"	4000	5215	9.625	**	40	L80	LTC	1.13	1.48	5.73
8.75"	0	14,958	5.5"		17	P110	LTC	1.52	2.73	2.58
	BLM Minimum Safety Factor					1.125	1	1.6 Dry 1.8 Wet		

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Intermediate burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface.

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

## 1. Geologic Formations

TVD of target	10,155' EOL	Pilot hole depth	NA
MD at TD:	14,958'	Deepest expected fresh water:	142'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1108	Water	
Top of Salt	1509	Salt	
Base of Salt	5069	Salt	
Lamar	5187	Salt Water	
Bell Canyon	5229	Salt Water	
Cherry Canyon	6228	Oil/Gas	
Brushy Canyon	7808	Oil/Gas	
Bone Spring Lime	9274	Oil/Gas	
U. Avalon Shale	9348	Oil/Gas	
L. Avalon Shale	9959	Oil/Gas	
Basal Avalon	10109	Oil/Gas	
1st Bone Spring Sand	10306	Not Penatrated	
2nd Bone Spring Sand	X	Not Penatrated	
3rd Bone Spring Sand	Х	Not Penatrated	

#### 2. Casing Program

Hole Size	Casing		Csg. Size	Weight	Grade	Conn	SF	SF Burst	SF
Hole Size	From	То	Csg. Size	(lbs)	Grade	Comi.	Collapse	SF Buist	Tension
17.5"	0	1135	13.375"	54.5	J55	STC	2.18	1.17	8.31
12.25"	0	4000	9.625"	40	J55	LTC	1.22	1.01	3.25
12.25"	4000	5215	9.625"	40	L80	LTC	1.13	1.48	5.73
8.75"	0	14,958	5.5"	17	P110	LTC	1.52	2.73	2.58
	BLM Minimum Safety Factor						1.125	1	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Intermediate burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface.

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

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

#### 3. Cementing Program

Casing	# Sks	Wt. lb/	Yld ft3/ sack	H₂0 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	490	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
Intor	1000	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	690	11.9	2.5	19	72	Lead: 50:50:10 H Blend
5.5 Prod	1350	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

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	ıular	Х	2000 psi
			Blind	Ram		
12-1/4"	13-5/8"	2M	Pipe Ram			2M
			Double Ram			
			Other*			
			Ann	nular	×	50% testing pressure
8-3/4"	13-5/8"	3M	Blind Ram		X	3M
			Pipe Ram		Х	
			Double Ram			
			Other*			

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

	Formation integrity test will be performed per Onshore Order #2.					
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	Time	Weight	Viscosity	Water Loss
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.

14/1 ( 201 ) ( 60 ) ( 60 )	DVCD AC LACTED
What will be used to monitor the loss or gain of fluid?	IPVT/Pason/Visual Monitoring
Trial will be deed to member the lees of gain or hald:	i tirracon, troda, mormoni

## 6. Logging and Testing Procedures

Logging, Coring and Testing.	
Υ	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted/to the BLM.
Y	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Υ	Mud log	Intermediate shoe to TD
N	PEX	

#### 7. Drilling Conditions

Condition	Specify what type and where?	
BH Pressure at deepest TVD	4915 psi at 10155' TVD	
Abnormal Temperature	NO 160 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?
N	Is casing pre-set?

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



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

04/10/2018

APD ID: 10400024946

Submission Date: 11/28/2017

Highlighted data reflects the most

recent changes

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

Well Number: 308H

**Show Final Text** 

Well Type: OIL WELL

Well Work Type: Drill

### Section 1 - Existing Roads

Will existing roads be used? YES

**Existing Road Map:** 

COG Dominator Existing Rd 20171121094216.pdf

**Existing Road Purpose: ACCESS** 

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

**Existing Road Improvement Description:** 

**Existing Road Improvement Attachment:** 

#### Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

**New Road Map:** 

COG\_Dominator\_308H\_Roads\_20171127142020.pdf

New road type: TWO-TRACK

Length: 9029

Feet

Width (ft.): 30

Max slope (%): 33

Max grade (%): 1

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns.

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Well Name: DOMINATOR 25 FEDERAL Well Number: 308H

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\_308H\_1Mile\_Data\_20171127114050.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 1 facility. A surface flow line of approximately 60.1' 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 1 location. We plan to install a 4" surface polyethylene pipe transporting Gas Lift Gas from the Dominator 25 Federal CTB 1 to the multiple well pad that includes the Dominator 25 Federal #108H, #308H, #408H, #609H, #714H and the #713H wells. The surface Gas Lift Gas pipe of approximately 60.1' 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\_Flowlines\_20171127075250.pdf

COG\_Dominator\_CTB\_1\_20171127075227.pdf

COG\_Dominator\_308H Prod Fac 20171127114116.pdf

Well Name: DOMINATOR 25 FEDERAL

Well Number: 308H

# **Section 5 - Location and Types of Water Supply**

## **Water Source Table**

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, PRIVATE

CONTRACT

Source land ownership: COMMERCIAL

Water source transport method: TRUCKING,TRUCKING

Source transportation land ownership: COMMERCIAL

Water source volume (barrels): 15000

Source volume (acre-feet): 1.9333965

Source volume (gal): 630000

Water source use type: STIMULATION, SURFACE CASING

Water source type: OTHER

Describe type: Fresh Water.

Source latitude:

Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT, PRIVATE

CONTRACT

Source land ownership: PRIVATE

Water source transport method: PIPELINE, PIPELINE

Source transportation land ownership: PRIVATE

Water source volume (barrels): 225000

Source volume (acre-feet): 29.000946

Source volume (gal): 9450000

#### Water source and transportation map:

COG\_Dominator\_Frac\_Pond\_20171127081721.pdf

COG Dominator 308H FreshH2O 20171127114214.pdf

COG\_Dominator\_308H\_BrineH2O\_20171127114447.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:

Well Name: DOMINATOR 25 FEDERAL

Well Number: 308H

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 containment attachment:

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

**FACILITY** 

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Waste type: 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

Well Name: DOMINATOR 25 FEDERAL Well Number: 308H

Safe containment attachment:

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

**FACILITY** 

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Waste type: GARBAGE

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

Amount of waste: 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 containment attachment:

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

**FACILITY** 

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

# Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

# **Cuttings Area**

Cuttings Area being used? NO

Are you storing cuttings on location? YES

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 Well Number: 308H

Cuttings area liner specifications and installation description

# **Section 8 - Ancillary Facilities**

Are you requesting any Ancillary Facilities?: YES

**Ancillary Facilities attachment:** 

COG\_Dominator\_\_308H\_\_GCP\_20171127114327.pdf

Comments: GCP Attached

### Section 9 - Well Site Layout

#### Well Site Layout Diagram:

COG\_Dominator\_CTB\_1\_20171127081134.pdf

COG Dominator Flowlines 20171127081154.pdf

COG\_Dominator\_308H Prod Fac 20171127114342.pdf

Comments: Production will be sent to the Dominator 25 Federal CTB 1 facility. A surface flow line of approximately 60.1' 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 1 location. We plan to install a 4" surface polyethylene pipe transporting Gas Lift Gas from the Dominator 25 Federal CTB 1 to the multiple well pad that includes the Dominator 25 Federal #108H, #308H, #408H, #609H, #714H and the #713H wells. The surface Gas Lift Gas pipe of approximately 60.1' 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

Multiple Well Pad Number: 108H, 308H, 408H, 609H, 714H AND

713H

Recontouring attachment:

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

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

Well pad proposed disturbance

(acres): 3.67

Road proposed disturbance (acres):

2.9

Powerline proposed disturbance

(acres): 0

Pipeline proposed disturbance

(acres): 0.01

Other proposed disturbance (acres):

Total proposed disturbance: 29.54

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

0.73

Road interim reclamation (acres): 2.9

Powerline interim reclamation (acres):

Pipeline interim reclamation (acres):

0.01

Other interim reclamation (acres): 0

Total interim reclamation: 3.64

(acres): 2.94

Road long term disturbance (acres):

Powerline long term disturbance

(acres): 0

Pipeline long term disturbance

(acres): 0.01

Other long term disturbance (acres):

Total long term disturbance: 28.81

Reconstruction method: New construction of pad.

Well Name: DOMINATOR 25 FEDERAL Well Number: 308H

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 source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Well Name: DOMINATOR 25 FEDERAL

Well Number: 308H

**Seed Summary** 

Seed Type

Pounds/Acre

Total pounds/Acre:

#### Seed reclamation attachment:

# **Operator Contact/Responsible Official Contact Info**

First Name: Rand

Last Name: French

Phone: (432)254-5556

Email: rfrench@concho.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: N/A

Weed treatment plan attachment:

Monitoring plan description: N/A

Monitoring plan attachment:

Success standards: N/A

Pit closure description: N/A

Pit closure attachment:

COG\_Dominator 308H Closed Loop 20171127114401.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:** 

**DOD Local Office:** 

**NPS Local Office:** 

Well Name: DOMINATOR 25 FEDERAL

Well Number: 308H

**State Local Office:** 

Military Local Office:

**USFWS Local Office:** 

Other Local Office:

**USFS Region:** 

USFS Forest/Grassland:

**USFS Ranger District:** 

**Section 12 - Other Information** 

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

**ROW Applications** 

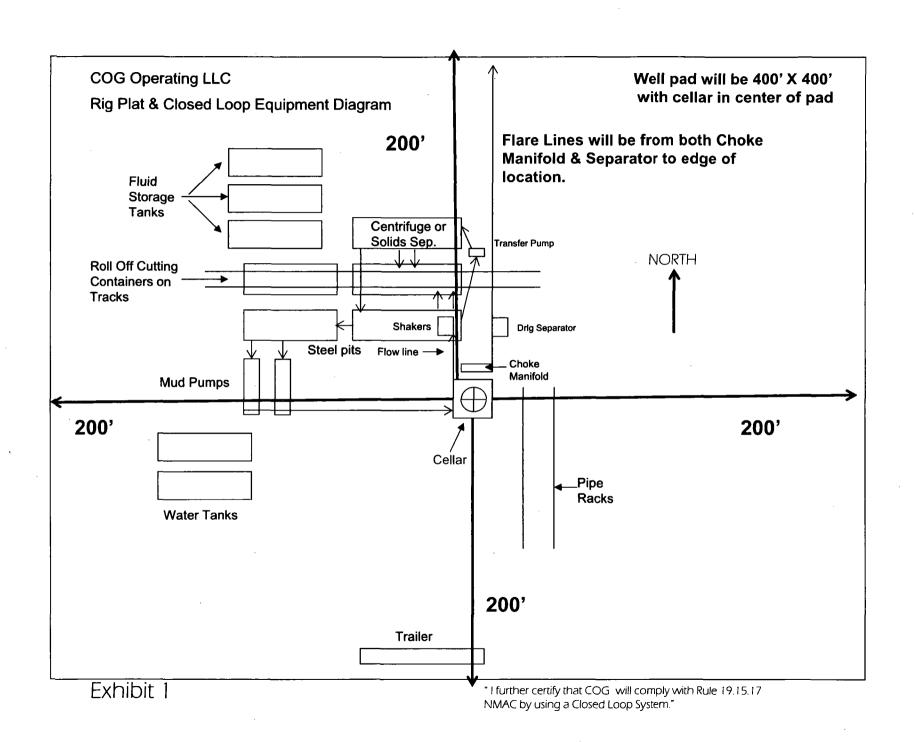
**SUPO Additional Information:** 

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).

**Other SUPO Attachment** 

COG\_Dominator\_308H\_Certif\_20171127114746.pdf



#### **ERATOR CERTIFICATION**

Mayte Reyes

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



### Section 1 - General

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

### **Section 2 - Lined Pits**

Would you like to utilize Lined Pit PWD options? NO

**Produced Water Disposal (PWD) Location:** 

PWD surface owner:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

**Lined pit Monitor attachment:** 

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

PWD disturbance (acres):

# Section 3 - Unlined Pits

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Unlined pit PWD on or off channel:	
Unlined pit PWD discharge volume (bbl/day):	· .
Unlined pit specifications:	
Precipitated solids disposal:	
Decribe precipitated solids disposal:	
Precipitated solids disposal permit:	
Unlined pit precipitated solids disposal schedule:	
Unlined pit precipitated solids disposal schedule attachment	
Unlined pit reclamation description:	
Unlined pit reclamation attachment:	
Unlined pit Monitor description:	
Unlined pit Monitor attachment:	
Do you propose to put the produced water to beneficial use?	
Beneficial use user confirmation:	·
Estimated depth of the shallowest aquifer (feet):	
Does the produced water have an annual average Total Dissorthat of the existing water to be protected?	olved Solids (TDS) concentration equal to or less than
TDS lab results:	
Geologic and hydrologic evidence:	
State authorization:	
Unlined Produced Water Pit Estimated percolation:	\
Unlined pit: do you have a reclamation bond for the pit?	
Is the reclamation bond a rider under the BLM bond?	
Unlined pit bond number:	
Unlined pit bond amount:	
Additional bond information attachment:	
Section 4 - Injection	
Would you like to utilize Injection PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):

Injection well type: Injection well number: Injection well name: Injection well API 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: PWD disturbance (acres): Surface discharge PWD discharge volume (bbl/day): **Surface Discharge NPDES Permit? Surface Discharge NPDES Permit attachment:** Surface Discharge site facilities information: Surface discharge site facilities map: Section 6 - Other Would you like to utilize Other PWD options? NO **Produced Water Disposal (PWD) Location:** PWD surface owner: PWD disturbance (acres): Other PWD discharge volume (bbl/day): Other PWD type description: Other PWD type attachment: Have other regulatory requirements been met? Other regulatory requirements attachment:



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# Bond Info Data Report

# **Bond Information**

Federal/Indian APD: FED

**BLM Bond number:** NMB000215

**BIA Bond number:** 

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

**BLM** reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

**Reclamation bond amount:** 

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Well Name: DOMINATOR 25 FEDERAL

Well Number: 308H

	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
EXIT Leg #1	330	FNL	330	FWL	25S	33E	25	Aliquot NWN W	32.10785 9	- 103.5335 34	LEA	MEXI	14-44	F	NMNM 121958	- 679 5	148 00	101 36
BHL Leg #1	200	FNL	330	FWL	258	33E	25	Aliquot NWN W	32.10821 7	- 103.5335 34	LEA	NEW MEXI CO	145	F	NMNM 121958	- 681 4	149 58	101 55