Form 3160 -3 (March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Expires October 31, 2014 5. Lease Serial No.

NMNM121958 <

APPLICATION FOR PERMIT TO		APN -		6. If Indian, Allotee	or Tribe Name
la. Type of work: DRILL REENTI	ER	L OR REENTER	MER	7 If Unit or CA Agree	ment-Name and No.
lb. Type of Well: Oil Well Gas Well Other	ĺ	Single Zone Multip	le Zone	48. Lease Name and W DOMINATOR 25 FE	
2. Name of Operator COG OPERATING LLC 229	137)		9. API Well-No.	-44701
3a. Address 600 West Illinois Ave Midland TX 79701	1	onc No. (include area code) (683-7443		10. Field and Pool, or E WILDCAT / BONE S	
4. Location of Well (Report location clearly and in accordance with an At surface SWSE / 310 FSL / 1320 FEL / LAT 32.09511 At proposed prod. zone NWNE / 200 FNL / 1650 FEL / LAT	2 / LOI	NG -103.522852	52	11. Sec. T. R. M. or BII SEC 25 / T25S / R3	·
 Distance in miles and direction from nearest town or post office* miles 				12. County or Parish LEA	13. State NM
15. Distance from proposed* location to nearest 200 feet property or lease line, ft. (Also to nearest drig. unit line, if any)	16. N 360	lo. of acres in lease	17. Spacin 160	g Unit dedicated to this w	ell
18. Distance from proposed location* to nearest well, drilling, completed, 574 feet applied for, on this lease, ft.	Υ	roposed Depth 05 feet / 14958 feet		BIA Bond No. on file MB000215	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3336 feet	I \	pproximate date work will star	1*	23. Estimated duration 30 days	
	24.	Attachments	• .		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 	Lands,	the Such other site BLM.	ation	ormation and/or plans as	
25. Signature (Electronic Submission)		Name (Printed/Typed) Mayte Reyes / Ph: (575)	748-6945		Date 12/04/2017
Title Regulatory Analyst	•				
Approved by (Signature) (Electronic Submission)		Name (Printed/Typed) Cody Layton / Ph: (575)2	234-5959		Date 04/09/2018
Title Supervisor Multiple Resources		Office CARLSBAD			
Application approval does not warrant or certify that the applicant hole conduct operations thereon. Conditions of approval, if any, are attached.	ds legal	or equitable title to those righ	ts in the sub	ject lease which would en	ntitle the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c States any false, fictitious or fraudulent statements or representations as	crime fo to any n	r any person knowingly and v natter within its jurisdiction.	villfully to n	nake to any department o	r agency of the United
(Continued on page 2) RECEIVED FCP 4/18	7/18 VEI)	WITH CONDITI	ONS		ructions on page 2)
		Pate: 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.

NOTICES

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

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

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

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

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

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

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

(Continued on page 3)

(Form 3160-3, page 2)

Approval Date: 04/09/2018

Additional Operator Remarks

Location of Well

1001 Sett

1. SHL: SWSE / 310 FSL / 1320 FEL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.095112 / LONG: -103.522852 (TVD: 0 feet, MD: 0 feet)

PPP: NWSE / 1320 FSL / 1650 FEL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.097884 / LONG: -103.522854 (TVD: 10199 feet, MD: 11200 feet)

PPP: SWSE / 330 FSL / 1650 FEL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.095166 / LONG: -103.522855 (TVD: 4600 feet) MD: 4600 feet)

BHL: NWNE / 200 FNL / 1650 FEL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.108213 / LONG: -103.522852 (TVD: 10205 feet) MD: 14958 feet)

BLM Point of Contact

Name: Tenille Ortiz

Title: Legal Instruments Examiner

Phone: 5752342224

Email: tortiz@blm.gov



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

pplication Data Report

Submission Date: 12/04/2017

Highlighted data reflects the most

recent changes

Well Number: 303H

Show Final Text

Well Type: OIL WELL

APD ID: 10400025157

Well Work Type: Drill

Section 1 - General

APD ID:

10400025157

Operator Name: COG OPERATING LLC

Well Name: DOMINATOR 25 FEDERAL COM

Tie to previous NOS?

Submission Date: 12/04/2017

HOW BYSING BY

BLM Office: CARLSBAD

User: Mayte Reyes

Lease Acres: 360

Title: Regulatory Analyst

Federal/Indian APD: FED

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

Lease number: NMNM121958

Reservation:

Surface access agreement in place?

Allotted?

Zip: 79701

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: COG OPERATING

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: 303H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WILDCAT

Pool Name: BONE SPRING

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

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 303H

Describe other minerals:

Well Class: HORIZONTAL

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:

Number: 103H, 303H, 402H,

DOMINATOR 25 FEDERAL COM302H, 704H, 604H, 603H AND

703H

Number of Legs:

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: 574 FT

Distance to lease line: 200 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

COG Dominator 303H C102 20180330133509.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 Leg #1	310	FSL	132 0	FEL	258	33E	25	Aliquot SWSE	32.09511 2	- 103.5228 52	LEA	l .	NEW MEXI CO	F	NMNM 121958	333 6	0	0
KOP Leg #1	310	FSL	132 0	FEL	25S	33E	25	Aliquot SWSE	32.09511 2	- 103.5228 52	LEA	NEW MEXI CO		F	NMNM 121958	333 6	0	0
PPP Leg #1	330	FSL	165 0	FEL	25S	33E	25	Aliquot SWSE	32.09516 6	- 103.5228 55	LEA	(NEW MEXI CO	F	NMNM 121958	- 126 4		460 0

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 303H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
PPP Leg #1	132 0	FSL	165 0	FEL	258	33E	25	Aliquot NWSE	32.09788 4	- 103.5228 54	LEA	NEW MEXI CO		F	NMNM 114987	- 686 3	112 00	101 99
EXIT Leg #1	330	FNL	165 0	FEL	25S	33E	25	Aliquot NWNE	32.10785 6	- 103.5228 52	LEA	NEW MEXI CO		F	NMNM 121958	- 683 4	148 00	101 70
BHL Leg #1	200	FNL	165 0	FEL	25S	33E	25	Aliquot NWNE	32.10821 3	- 103.5228 52	LEA	l	NEW MEXI CO	F	NMNM 121958	- 686 9	149 58	102 05

Well Name: DOMINATOR 25 FEDERAL COM Well Number: 303H

Pressure Rating (PSI): 2M

Rating Depth: 5210

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_303H_2M_Choke_20171201092928.pdf

BOP Diagram Attachment:

COG Dominator 303H_2M_BOP_20171201092934.pdf

COG_Dominator_303H_FlexHose_20171201092942.pdf

Pressure Rating (PSI): 3M

Rating Depth: 10205

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 303H 3M Choke 20171201093005.pdf

BOP Diagram Attachment:

COG Dominator 303H 3M BOP 20171201093018.pdf

COG_Dominator_303H_FlexHose_20171201093025.pdf

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 303H

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	1090	0	1090	-8653	-9678	1090	J-55	54.5	STC	2.27	1.17	DRY	8.65	DRY	8.65
2	INTERMED IATE	12.2 5	9.625	NEW	API	Υ	0	5210	0	5210	-8653	- 20153		L-80	40	LTC	1.13	1.47	DRY	5.73	DRY	5.73
_	PRODUCTI ON	8.75	5.5	NEW	API	N	0	14958	0	14958		- 21064	14958	P- 110	17	LTC	1.52	2.72	DRY	2.57	DRY	2.57

Casing Attachments

Casing ID: 1

String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $COG_Dominator_303H_Casing_Rpt_20171201093128.pdf$

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 303H

Casing Attachments

Casing ID: 2

String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

COG_Dominator_303H_Casing_Rpt_20171201093155.pdf

Casing Design Assumptions and Worksheet(s):

COG_Dominator_303H_Casing_Rpt_20171201093219.pdf

Casing ID: 3

String Type:PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COG_Dominator_303H_Casing_Rpt_20171201093254.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1090	460	1.75	13.5	805	50	Lead: Class C	4% Gel + 1% CaCl2
SURFACE	Tail		0	1090	250	1.34	14.8	335	50	Tail: Class C	2% CaCl2
INTERMEDIATE	Lead		0	5210	1000	2	12.7	2000	50	Lead: 35:65:6 C Blend	As needed
INTERMEDIATE	Tail		0	5210	250	1.34	14.8	335	50	Tail: Class C	2% CaCl
PRODUCTION	Lead		0	1495 8	700	2.5	11.9	1750	25	Lead: 50:50:10 H Blend	As needed

Well Name: DOMINATOR 25 FEDERAL COM Well Number: 303H

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	1340	1.24	14.4	1661	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 (Ibs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
5210	1495 8	OTHER : Cut Brine	8.6	9.3							Cut Brine
0	1090	OTHER : FW Gel	8.6	8.8							FW Gel
1090	5210	OTHER : Saturated Brine	10	10.1				,			Saturated Brine

Well Name: DOMINATOR 25 FEDERAL COM Well Number: 303H

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: 4940

Anticipated Surface Pressure: 2694.9

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_303H_H2S_Schem_20171201093540.pdf COG_Dominator_303H_H2S_SUP_20171201093549.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

COG_Dominator_303H_AC_Rpt_20171201093619.pdf

COG_Dominator_303H_Direct_Rpt_20171201093626.pdf

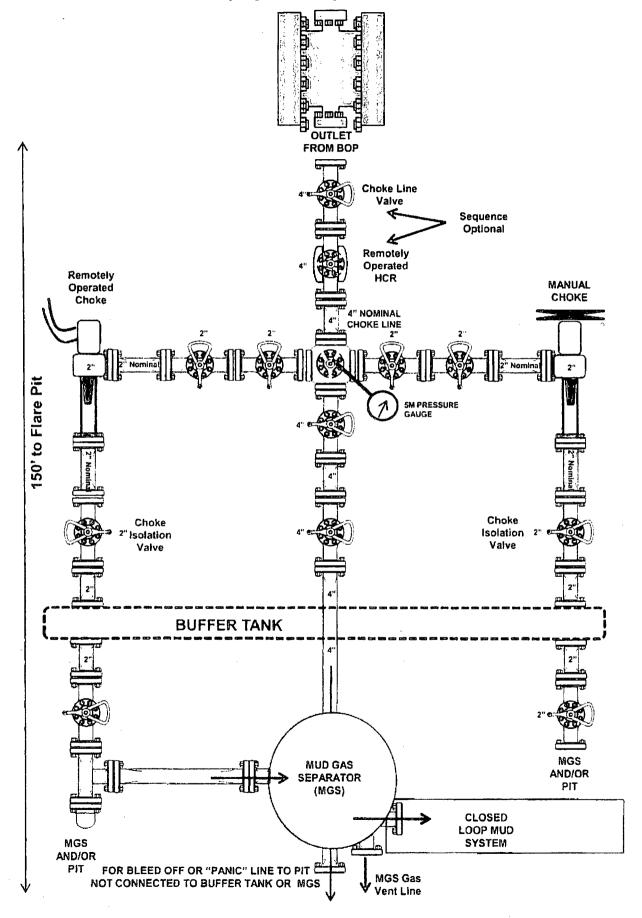
Other proposed operations facets description:

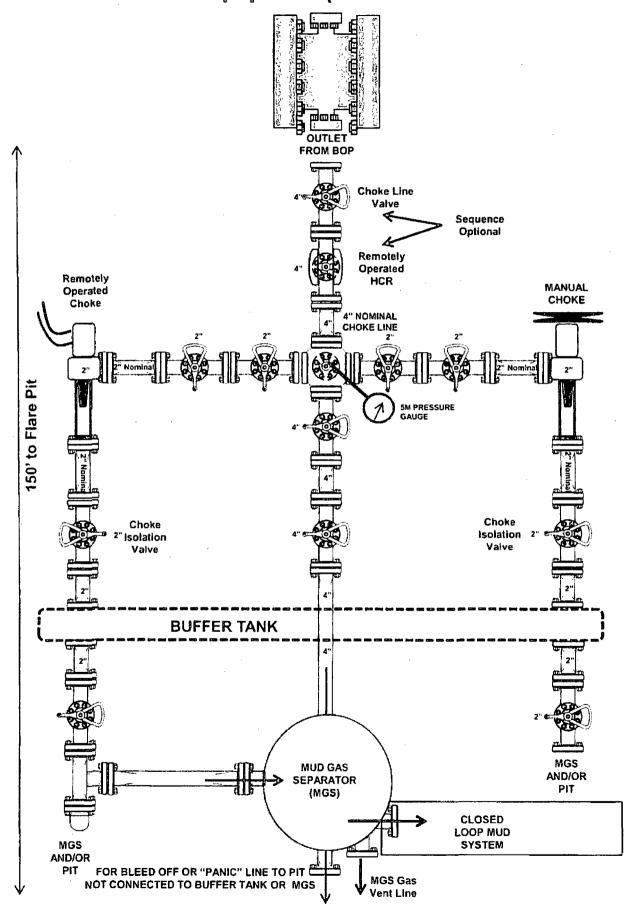
Drilling Program Attached

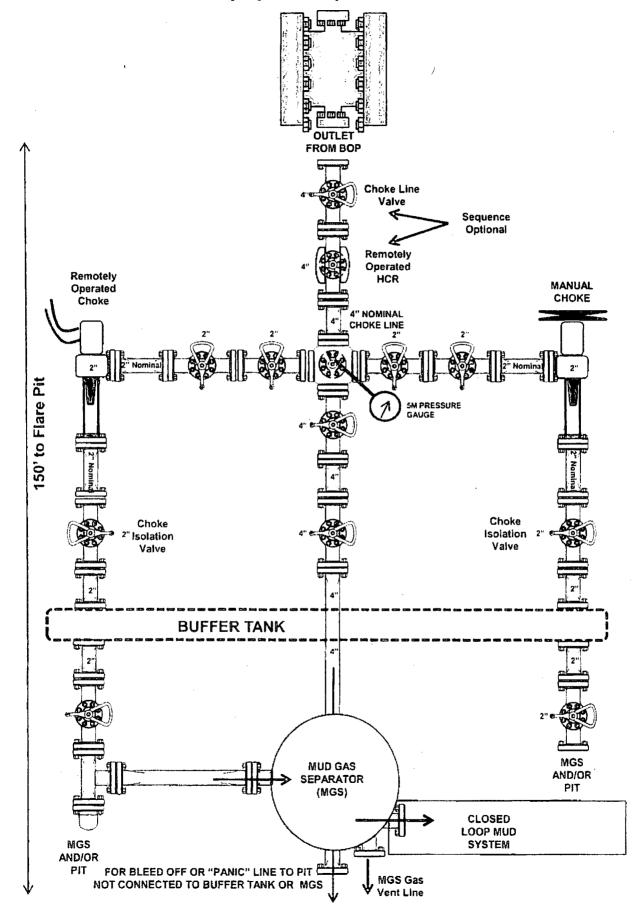
Other proposed operations facets attachment:

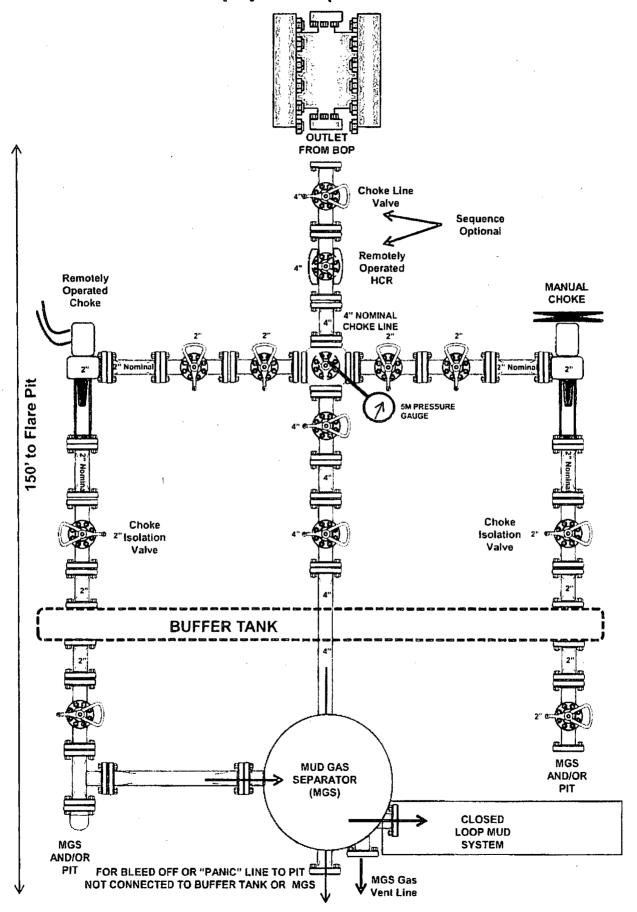
COG_Dominator_303H_Drill_Rpt_20171201093635.pdf

Other Variance attachment:

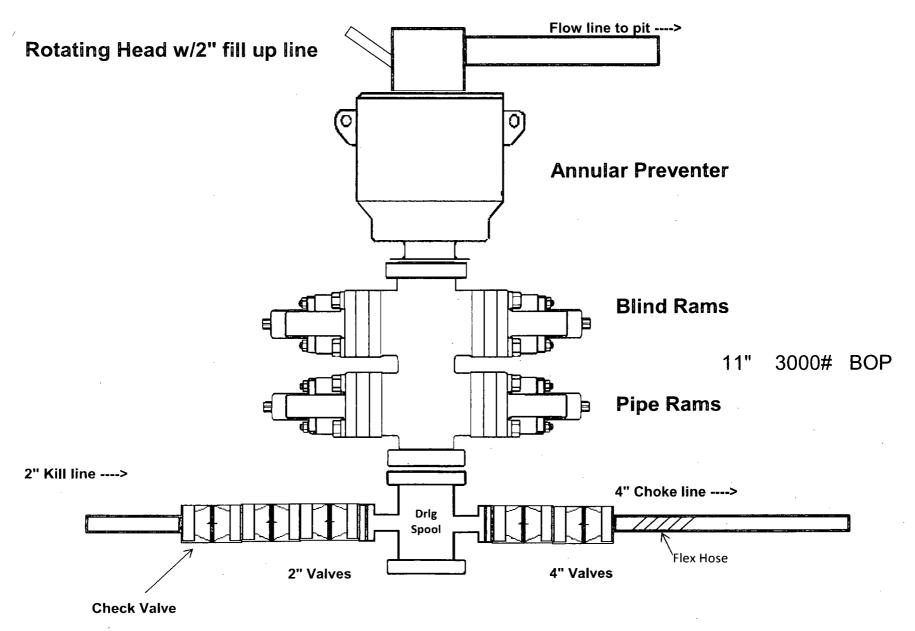




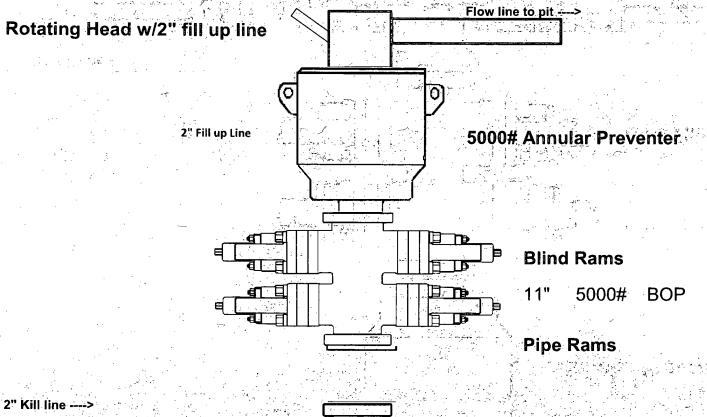


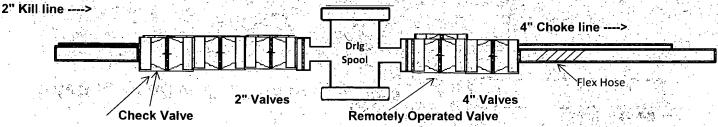


3,000 psi BOP Schematic

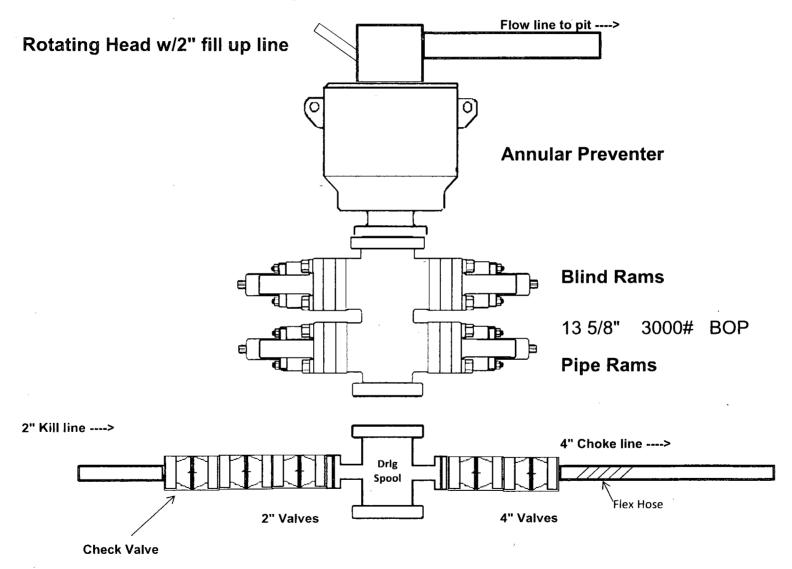


5,000 psi BOP Schematic





3,000 psi BOP Schematic





Midwest Hose & Specialty, Inc.

Ø 5	speciarty, inc.
Certifica	te of Conformity
Customer: LATSHAW DRILLING	Customer P.O.# RIG#44
Sales Order # 242739	Date Assembled: 2/9/2015
Spi	ecifications
Hose Assembly Type: Choke & Kill	
Assembly Serial # 292614-1	Hose Lot # and Date Code 10900-08/13
Hose Working Pressure (psi) 10000	Test Pressure (psi) 15000
We hereby certify that the above material supplie to the requirements of the purchase order and cui	ed for the referenced purchase order to be true according rrent industry stondards.
Supplier: Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd	
Oklahoma City, OK 73129 Comments:	
comments.	
Approved By	Date
Fra Alama	2/10/2015

Holo Sizo	Ca	asing	Csg. Size	Weight	Grade	Conn	SF	SF Burst	SF
Hole Size	From	То	Cag. Size	(lbs)	Oi aue	Comi	Collapse	or burst	Tension
17.5"	0	1090	13.375"	54.5	J55	STC	2.27	1.17	8.65
12.25"	0	4000	9.625"	40	J55	LTC	1.22	1.01	3.25
12.25"	4000	5210_	9.625"	40	L80	LTC	1.13	1.47	5.73
8.75"	0	14,958	5.5"	17	P110	LTC	1.52	2.72	2.57
			BLM	l 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	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	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	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	Ťo		(lbs)	ت يا د		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
State Co.		Page 1 1 style	are a tall and	BLM M	inimum Sa	fety Factor	1.125	1.125	1.6 Dry
7.									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.

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

Hojë Size	Ca From	sing To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17.5"	0	1090	13,375"	54.5	J55	STC	2.27	1.17	8.65
12.25"	_0	4000	9.625"	40	J55	LTC	1.22	1.01	3.25
12.25"	4000	5210	9.625"	40	L80	LTC	1.13	1.47	5.73
8.75"	0	14,958	5.5"	17	P110	LTC	1.52	2.72	2.57
-			BLM	l 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		sing	Csg. Size	Weight	Grade	Conn	SF	SF Burst	SF
Hole Size	From	То	· Csg. Size	(lbs)	Giade	COIIII.	Collapse	or Durst	Tension
17.5"	0	1090	13.375"	54.5	J55	STC	2.27	1.17	8.65
12.25"	0	4000	9.625"	40.	J55	LTC	1.22	1.01	3.25
12.25"	4000	5210	9.625"	40	L80	LTC	1.13	1.47	5.73
8.75"	Ō	14,958	5.5"	17	P110	LTC	1.52	2.72	2.57
		Million Services of the Control of t	BĽM	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.

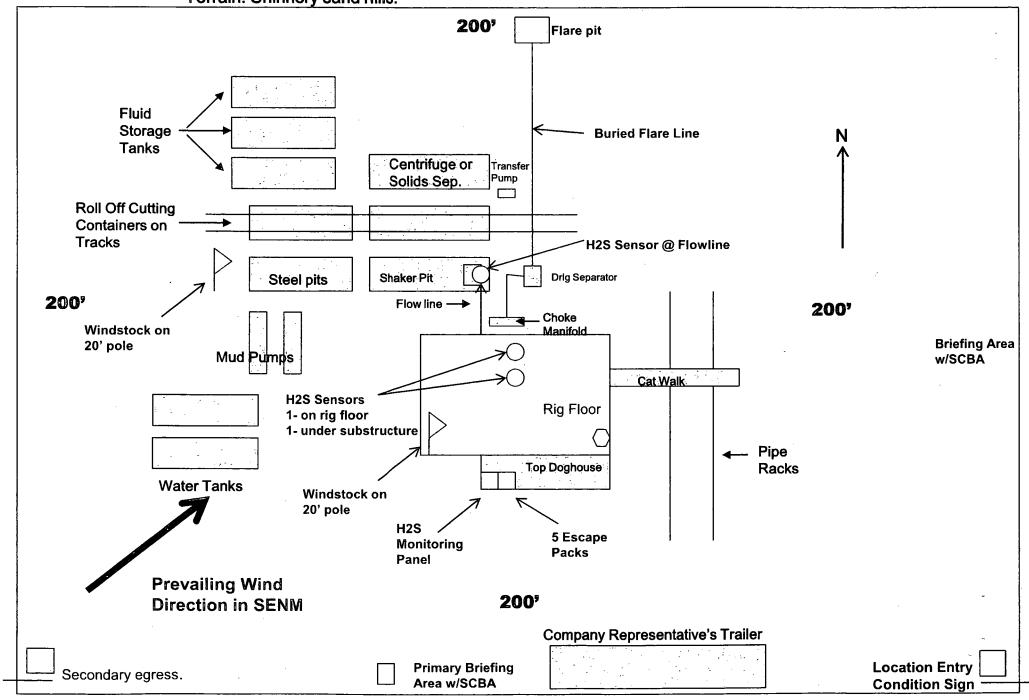
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.f.

Hole Size		asing	Csg. Size	Weight (lbs)	Grade	Conn.	SF	SF Burst	SF
	From	То	Annual Control of the Control	(lbs)			Collapse		Tension
17.5"	0	1090	13,375"	54.5	J55	STC	2.27	1.17	8.65
12.25"	0	4000	9.625"	40	J55	LTC	1.22	1.01	3.25
12.25"	4000	5210	9.625"	40	L80	LTC	1.13	1.47	5.73
8.75"	0	14,958	5.5"	17	P110	LTC	1.52	2.72	2.57
			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 H₂S Equipment Schematic Terrain: Shinnery sand hills.

Well pad will be 400' x 400' with cellar in center of pad



1. Geologic Formations

TVD of target	10,205' 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	1065	Water	
Top of Salt	1410	Salt	
Base of Salt	4926	Salt	
Lamar	5185	Salt Water	
Bell Canyon	5210	Salt Water	
Cherry Canyon	6211	Oil/Gas	
Brushy Canyon	7851	Oil/Gas	
Bone Spring Lime	9315	Oil/Gas	
U. Avalon Shale	9538	Oil/Gas	
L. Avalon Shale	9735	Oil/Gas	
Basal Avalon	9988	Oil/Gas	
1st Bone Spring Sand	10298	Not Penatrated	
2nd Bone Spring Sand	0	Not Penatrated	
3rd Bone Spring Sand	0	Not Penatrated	

2. Casing Program

Hole Size	Ca	asing	Csg. Size	Weight	Grade	Conn	SF	SF Burst	SF
Hole Size	From	То	Csy. Size	(lbs)	Grade	Com.	Collapse	or burst	Tension
17.5"	0	1090	13.375"	54.5	J55	STC	2.27	1.17	8.65
12.25"	0	4000	9.625"	40	J55	LTC	1.22	1.01	3.25
12.25"	4000	5210	9.625"	40	L80	LTC	1.13	1.47	5.73
8.75"	0	14,958	5.5"	17	P110	LTC	1.52	2.72	2.57
			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

	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.	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?	
	n verker en en en
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?	
	F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing	#Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ 0 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	460	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.	1000	12.7	2.0	9.6	16	Lead: 35:65:6 C Blend
miler.	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl
5.5 Prod	700	11.9	2.5	19	72	Lead: 50:50:10 H Blend
5.5 P100	1340	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

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

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	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. Reguired WP	Туре		×	Tested to:
			Ann	ular	Х	2000 psi
			Blind	Ram		
12-1/4"	13-5/8"	2M	Pipe	Ram		2M
			Double	e Ram		
			Other*			
			Annular		×	50% testing pressure
8-3/4"	13-5/8"	3M	Blind	Ram	Х	
·			Pipe Ram		Х	3M
			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.
X	On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
	N Are anchors required by manufacturer?
N	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

5. Mud Program

	Depth	Tyme	Weight	Viscosity	Water Loss
From	То	Туре	(ppg)	VISCOSILY	Water Loss
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	9-5/8" Int shoe	Saturated Brine	10 - 10.1	28-34	N/C
9-5/8" Int shoe	Lateral TD	Cut Brine	8.6 - 9.3	28-34	N/C

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

What will be used to monitor the loss or gain of fluid? PVT/Pason/Visual Monitoring	
IVV nat will be used to monitor the loss of dain of filling	ı
Title time of document and took of game of hands	

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4940 psi at 10205' 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

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

х	H2S Plan.
· x	BOP & Choke Schematics.
×	Directional Plan



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



APD ID: 10400025157

Operator Name: COG OPERATING LLC

Well Name: DOMINATOR 25 FEDERAL COM

Well Type: OIL WELL

Submission Date: 12/04/2017

Highlighted data reflects the most

recent changes

Show Final Text

Well Number: 303H
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_303H_Roads_20171201093659.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:

Well Name: DOMINATOR 25 FEDERAL COM Well Number: 303H

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_303H_1Mile_Data_20171201093715.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 3 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 3 location. We plan to install a 4" surface polyethylene pipe transporting Gas Lift Gas from the Dominator 25 Federal CTB 3 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 CTB 3 20171130144450.pdf

COG_Dominator_303H_Flowlines_20171201093739.pdf

COG_Dominator_303H_ProdFacil_20171201093748.pdf

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 303H

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 303H BrineH2O_20171201093830.pdf

COG Dominator 303H FreshH2O 20171201093843.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 COM

Well Number: 303H

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aguifer comments:

Aguifer 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

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 COM

Well Number: 303H

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 COM

Well Number: 303H

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: YES

Ancillary Facilities attachment:

COG Dominator 303H GCP 20171201093911.pdf

Comments: GCP Attached

Section 9 - Well Site Layout

Well Site Layout Diagram:

COG _Dominator_CTB_3_20171130153004.pdf

COG Dominator 303H Flowlines 20171201093933.pdf

COG Dominator 303H ProdFacil 20171201093941.pdf

Comments: Production will be sent to the Dominator 25 Federal CTB 3 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 3 location. We plan to install a 4" surface polyethylene pipe transporting Gas Lift Gas from the Dominator 25 Federal CTB 3 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 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):

3.62

Powerline proposed disturbance

(acres): 0

Pipeline proposed disturbance

(acres): 0.02

Other proposed disturbance (acres):

22.96

Total proposed disturbance: 30.27

Well pad interim reclamation (acres):

Pipeline interim reclamation (acres):

Other interim reclamation (acres): 0

Total interim reclamation: 4.37

Well pad long term disturbance

(acres): 2.94

Road interim reclamation (acres): 3.62 Road long term disturbance (acres):

Powerline interim reclamation (acres): Powerline long term disturbance

(acres): 0

Pipeline long term disturbance

(acres): 0.02

Other long term disturbance (acres):

22.96

Total long term disturbance: 29.54

Reconstruction method: New construction of pad.

Operator Name: COG OPERATING LLC Well Name: DOMINATOR 25 FEDERAL COM Well Number: 303H 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:

Proposed seeding season:

Seed use location:

PLS pounds per acre:

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 303H

Seed Summary

Total pounds/Acre:

Seed Type

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_303H_Closed_Loop_20171201094002.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 COM

Well Number: 303H

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 303H Certif 20171201094059.pdf

Surface Use Plan
COG Operating LLC
Dominator 25 Federal Com 303H
SHL: 310' FSL & 1320' FEL UL P
Section 25, T25S, R33E
BHL: 200' FNL & 1650' FEL UL B
Section 25, T25S, R33E
Lea County, New Mexico

OPERATOR CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access road proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or COG Operating LLC, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. Executed this 3^{PO} day of November, 2017.

Signed:

Printed Name: Mayte Reyes Position: Regulatory Analyst

Address: 2208 W. Main Street, Artesia, NM 88210

Telephone: (575) 748-6945 E-mail: <u>mreyes1@concho.com</u>

Field Representative (if not above signatory): Rand French Telephone: (575) 748-6940. E-mail: rfrench@concho.com



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

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 attack	hment:
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 beneficia	ıl use?
Beneficial use user confirmation:	
Estimated depth of the shallowest aquifer (feet):	
Does the produced water have an annual average Total that of the existing water to be protected?	I Dissolved 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 PWD discharge volume (bbl/day):	
Injection well mineral owner:	

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



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

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:



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

Operator Name: COG OPERATING LLC

Drilling Plan Data Report

APD ID: 10400025157

Submission Date: 12/04/2017

Highlighted data reflects the most

recent changes

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 303H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	1 ' 1	Lithologies	Mineral Resources	Producing
1	UNKNOWN	3336	Depth 0	Depth 0	Lithologies	NONE	No
2	RUSTLER	2272	1065	1065		NONE	No
3	TOP SALT	1927	1410	1410	SALT	NONE	No
4	BASE OF SALT	-1589	4926	4926	ANHYDRITE	NONE	No
5	LAMAR	-1848	5185	5185	LIMESTONE	NONE	No
. 6	BELL CANYON	-1873	5210	5210	· .	NONE	No
7	CHERRY CANYON	-2874	6211	6211		NATURAL GAS,OIL	No
8	BRUSHY CANYON	-4514	7851	7851		NATURAL GAS,OIL	No
9	BONE SPRING LIME	-5978	9315	9315	SANDSTONE	NATURAL GAS,OIL	No
10	UPPER AVALON SHALE	-6201	9538	9538	SHALE	NATURAL GAS,OIL	No
11		-6398	9735	9735		NATURAL GAS,OIL	No
12		-6652	9988	9988		NATURAL GAS,OIL	Yes
13	BONE SPRING 1ST	-6962	10298	10298		NATURAL GAS,OIL	No

Section 2 - Blowout Prevention