Form 3160 -3 (March 2012)

MIN F.

UNITED STATES DEPARTMENT OF THE INTERIOR HOBBS OF

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

5. Lease Serial No.

BUREAU OF LAND MANAGEMENT MAY 0 7 2018 6. If Indian, Allotee or Tribe Name

NMNM114987

APPLICATION FOR PERMIT TO D			_ 6255	
la. Type of work:	REC	FIVE	If Unit or CA Agree	inent. Name and No.
lb. Type of Well: Oil Well Gas Well Other	✓ Single Zone Multip		(8. Lease Name and W DOMINATOR 25 FE	
2. Name of Operator COG OPERATING LLC (229131)	/		9. API Well No.	-44744
000 144 (10% - 15 A 14% 15 - 1774 70704	D. Phone No. (include area code) (432)683-7443	V .	10. Field and Pool, or Ex WILDCAT / WOLFC	· / (_)(/_a \id/_
4. Location of Well (Report location clearly and in accordance with any S At surface SESE / 280 FSL / 600 FEL / LAT 32.095032 / L At proposed prod. zone NENE / 200 FNL / 330 FEL / LAT 32.	.ONG -103.519464	13	11. Sec. T. R. M. or Blk SEC 25 / T25S / R3	•
14. Distance in miles and direction from nearest town or post office* 19 miles			12. County or Parish LEA	13. State NM
location to magnest 200 feet	16. No of nures in lease 280	17. Spacing 160	Unit dedicated to this we	ell
to nearest well, drilling, completed, 385 feet	19. Proposed Depth 12770 feet / 17581 feet	20. BLM/BI FED: NM	IA Bond No. on file B000215	
	22. Approximate date work will star 03/01/2018	rt*	 Estimated duration 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 Las SUPO must be filed with the appropriate Forest Service Office). 	Item 20 above). 3. Operator certific	ation	s unless covered by an e	existing bond on file (see
25. Signature (Electronic Submission)	Name (Printed/Typed) Mayte Reyes / Ph: (575)	748-6945	I	Date 12/05/2017
Title Regulatory Analyst			,	¢ •
Approved by (Signature)	Name (Printed/Typed)			Date
(Electronic Submission)	Cody Layton / Ph: (575)2	234-5959		04/23/2018
Title Supervisor Multiple Resources	CARLSBAD			
Application approval does not warrant or certify that the applicant holds conduct operations thereon. Conditions of approval, if any, are attached.	legal or equitable title to those right	ts in the subje	ect lease which would en	title the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crin States any false, fictitious or fraudulent statements or representations as to	ne for any person knowingly and wany matter within its jurisdiction.	villfully to ma	ake to any department or	agency of the United
(Continued on page 2) GCP Sec 5/7/18	a with conditi	ONS	KZ *(Instr	uctions on page 2)

Approval Date: 04/23/2018

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: 04/23/2018

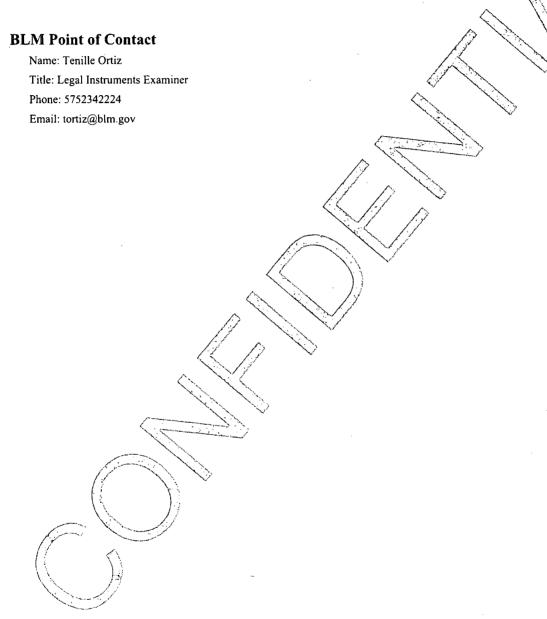
Additional Operator Remarks

Location of Well

1. SHL: SESE / 280 FSL / 600 FEL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.095032 / LONG: -103.519464 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 330 FSL / 330 FEL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.095171 / LONG: -103.518592 (TVD: 5000 feet, MD: 5000 feet)

BHL: NENE / 200 FNL / 330 FEL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.108212 / LONG: -103.518589 (TVD: 12770 feet, MD: 17581 feet)



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.





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

plication Data Report

APD ID: 10400025247

Submission Date: 12/05/2017

Highlighted data reflects the most

recent changes

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

Well Number: 701H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID:

10400025247

Tie to previous NOS?

Submission Date: 12/05/2017

BLM Office: CARLSBAD

User: Mayte Reyes

Title: Regulatory Analyst

Federal/Indian APD: FED

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

Lease number: NMNM114987

Lease Acres: 280

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: COG 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: 701H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WILDCAT

Pool Name: WOLFCAMP

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

Well Name: DOMINATOR 25 FEDERAL

Well Number: 701H

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: 102H, 301H, 401H, 501H, 601H, 602H, 701H AND

702H

Well Class: HORIZONTAL

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: 385 FT

Distance to lease line: 200 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat:

COG_Dominator_701H_C102_20171204152320.pdf

Well work start Date: 03/01/2018

Duration: 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

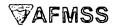
Describe Survey Type:

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	280	FSL	600	FEL	258	33E	25	Aliquot SESE	32.09503 2	- 103.5194 64	LEA	MEXI		F	NMNM 114987	332 3	0	0
KOP Leg #1	280	FSL	600	FEL	258	33E	25	Aliquot SESE	32.09503 2	- 103.5194 64	LEA	MEXI	14-44	F		332 3	0	0
PPP Leg #1	330	FSL	330	FEL	258	33E	25	Aliquot SESE	32.09517 1	- 103.5185 92	LEA	NEW MEXI CO		F	NMNM 114987	- 167 7	500 0	500 0



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

Drilling, Plan Data Report

04/26/2018

APD ID: 10400025247

Submission Date: 12/05/2017

Highlighted data reflects the most

recent changes

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

Well Number: 701H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation	Wall to the second	· Span	True Vertical	Measured		Washington and the second	Producin
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	
1	UNKNOWN	3323	Ö	0		NONE	No
2	RUSTLER	2150	1173	1173		NONE	No
3	TOP SALT	1749	1574	1574	SALT	NONE	No
4	BASE OF SALT	-1811	5134	5134	ANHYDRITE	NONE	No
5	LAMAR	-1929	5252	5252	LIMESTONE	NONE	No
6	BELL CANYON	-1971	5294	5294		NONE	No
7	CHERRY CANYON	-2970	6293	6293		NATURAL GAS,OIL	No
8	BRUSHY CANYON	-4550	7873	7873		NATURAL GAS,OIL	No
9	BONE SPRING LIME	-6016	9339	9339	SANDSTONE	NATURAL GAS,OIL	No
10	UPPER AVALON SHALE	-6090	9413	9413	SHALE	NATURAL GAS,OIL	No
11		-6701	10024	10024		NATURAL GAS,OIL	No
12	BONE SPRING 1ST	-7048	10371	10371		NATURAL GAS,OIL	No
13	BONE SPRING 2ND	-7566	10889	10889		NATURAL GAS,OIL	No
14	BONE SPRING 3RD	-8690	12013	12013		NATURAL GAS,OIL	No
15	WOLFCAMP	-9061	12384	12384		NATURAL GAS,OIL	Yes
16	STRAWN	-10888	14211	14211		NATURAL GAS,OIL	No

Section 2 - Blowout Prevention

Well Name: DOMINATOR 25 FEDERAL Well Number: 701H

Pressure Rating (PSI): 10M

Rating Depth: 12770

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 701H 10M Choke 20171205081303.pdf

BOP Diagram Attachment:

COG Dominator 701H 10M BOP 20171205081313.pdf

COG Dominator 701H FlexHose_20171205081322.pdf

Pressure Rating (PSI): 5M

Rating Depth: 12040

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_701H_5M_Choke_20171205081341.pdf

BOP Diagram Attachment:

COG Dominator 701H 5M BOP 20171205081348.pdf

COG Dominator 701H FlexHose 20171205081356.pdf

Well Name: DOMINATOR 25 FEDERAL

Weil Number: 701H

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	13.5	10.75	NEW	API	N	0	1200	0	1200	-8653	-9678	1200	N-80		OTHER - BTC	4.5	1.18	DRY	19.0 5	DRY	19.0 5
2	INTERMED.	9.87 5	7.875	NEW	API	Υ	0	12040	0	12040	-8653	- 20153	12040	P- 110		OTHER - BTC	1.26	1.03	DRY	3.04	DRY	3.04
3	PRODUCTI ON	6.75	5.0	NEW	API	N	0	17581	0	17581	-8653	- 21064	17581	P- 110		OTHER - BTC	1.82	1.89	DRY	3.17	DRY	3.17

Casing Attachments

Casing ID: 1

String Type:SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COG_Dominator_701H_Casing_Rpt_20171205081544.pdf

Well Name: DOMINATOR 25 FEDERAL Well Number: 701H

Casing Attachments

Casing ID: 2

String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

COG_Dominator_701H_Casing_Rpt_20171205081552.pdf

Casing Design Assumptions and Worksheet(s):

COG_Dominator_701H_Casing_Rpt_20171205081600.pdf

Casing ID: 3

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COG_Dominator_701H_Casing_Rpt_20171205082141.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	1200	190	1.75	13.5	332	50	Lead: Class C	4% Gel + 1% CaCl2
SURFACE	Tail		0	1200	250	1.34	14.8	335	50	Tail: Class C	2% CaCl2
INTERMEDIATE	Lead		0	1204 0	990	3.6	10.3	3564	50	Tuned Light Blend	As needed
INTERMEDIATE	Tail		0	1204 0	250	1.08	16.4	270	50	Tail: Class H	As needed
PRODUCTION	Lead		0	1758 1	140	2.5	11.9	350	35	Lead: 50:50:10 H Blend	As needed

Well Name: DOMINATOR 25 FEDERAL

Well Number: 701H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		0	1758 1	650	1.24	14.4	806	35	Tail: 50:50:2 Class H Blend	As needed

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

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)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1204 0	1758 1	OIL-BASED MUD	9.6	12							ОВМ
0	1200	OTHER : FW Gel	8.6	8.8			·				FW Gel
1200	1204 0	OTHER : Brine Diesel Emulsion	8.4	9							Brine Diesel Emulsion

Well Name: DOMINATOR 25 FEDERAL Well Number: 701H

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: 7970

Anticipated Surface Pressure: 5160.6

Anticipated Bottom Hole Temperature(F): 180

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

COG_Dominator_701H_H2S_Schem_20171205082515.pdf COG_Dominator_701H_H2S_SUP_20171205082523.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

COG_Dominator_701H_AC_Rpt_20171205082537.pdf COG_Dominator_701H_Direct_Rpt_20171205082544.pdf

Other proposed operations facets description:

Drilling Program Attached

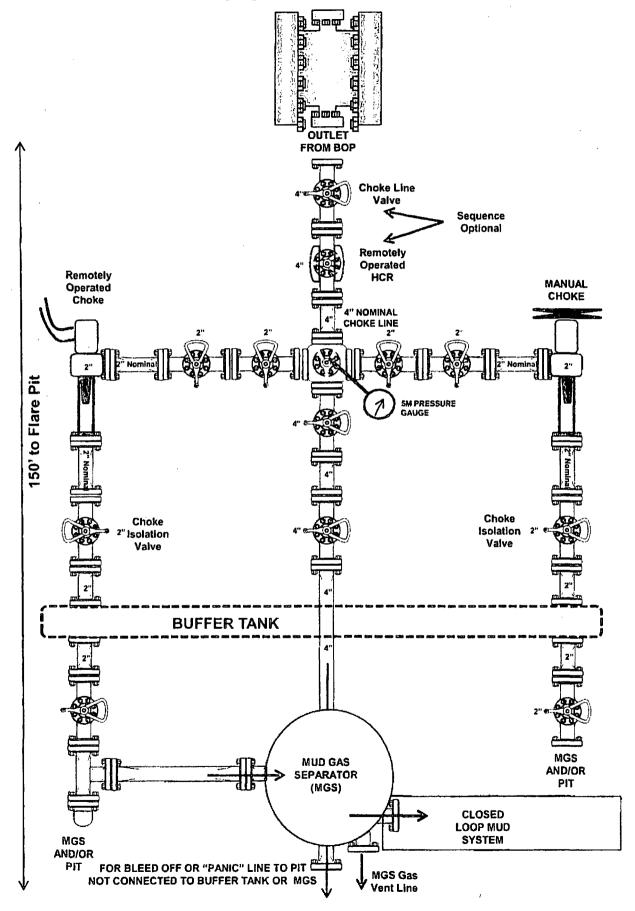
Other proposed operations facets attachment:

COG_Dominator_701H_Drill'_Rpt_20171205082554.pdf

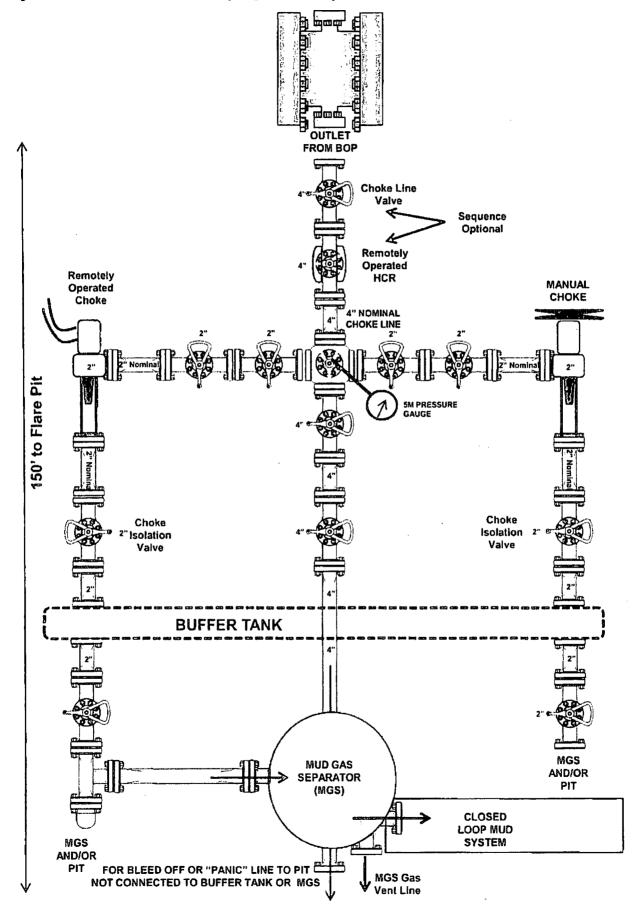
Other Variance attachment:

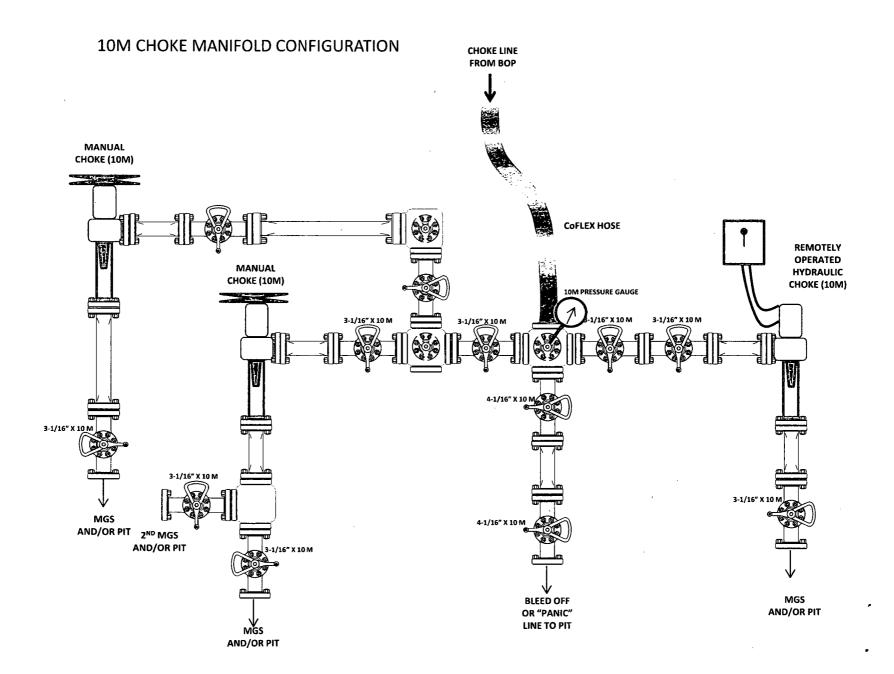
COG_6.75_5M_Variance_WCP_20171204142404.pdf

3M Choke Manifold Equipment (WITH MGS + CLOSED LOOP)

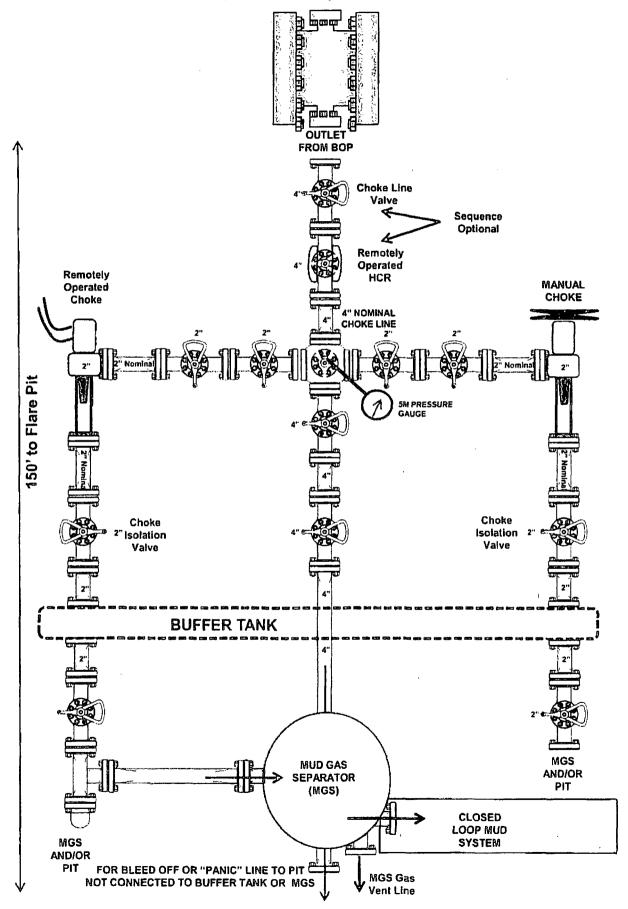


5M, Choke Manifold Equipment (WITH MGS + CLOSED LOOP)

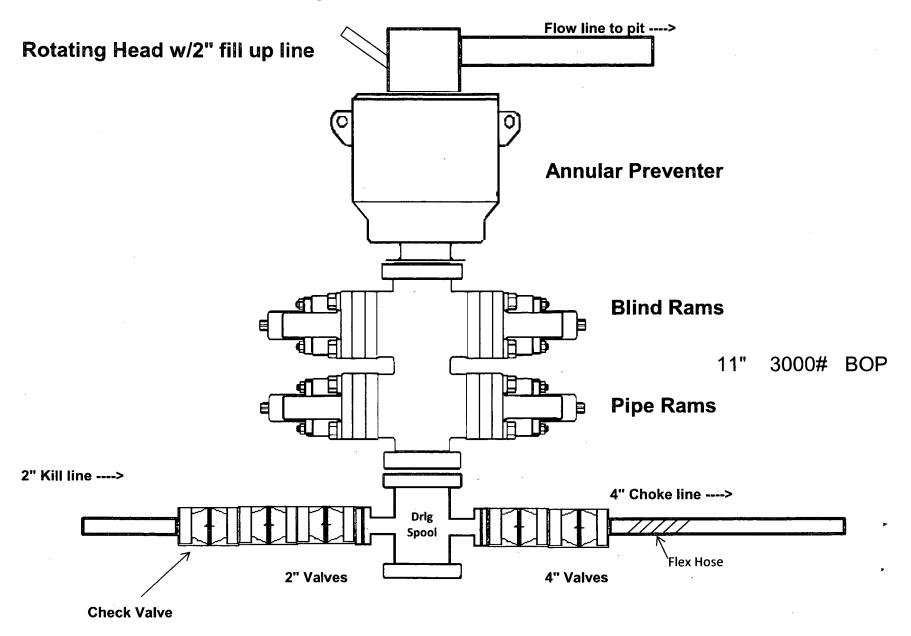




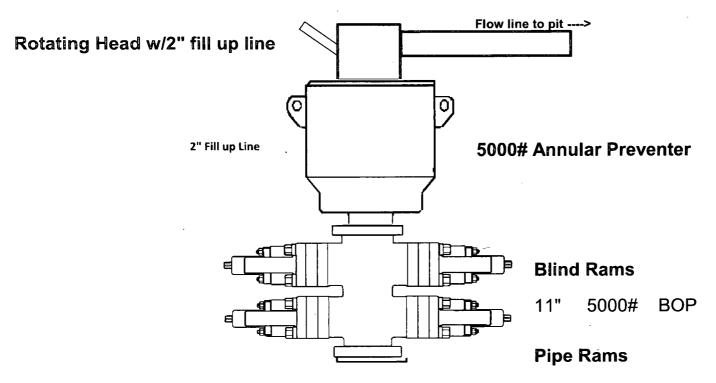
5M Choke Manifold Equipment (WITH MGS + CLOSED LOOP)

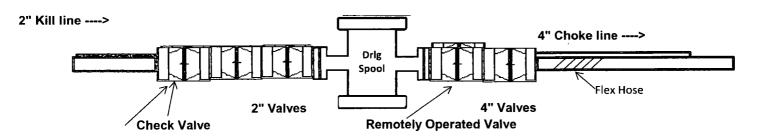


3,000 psi BOP Schematic

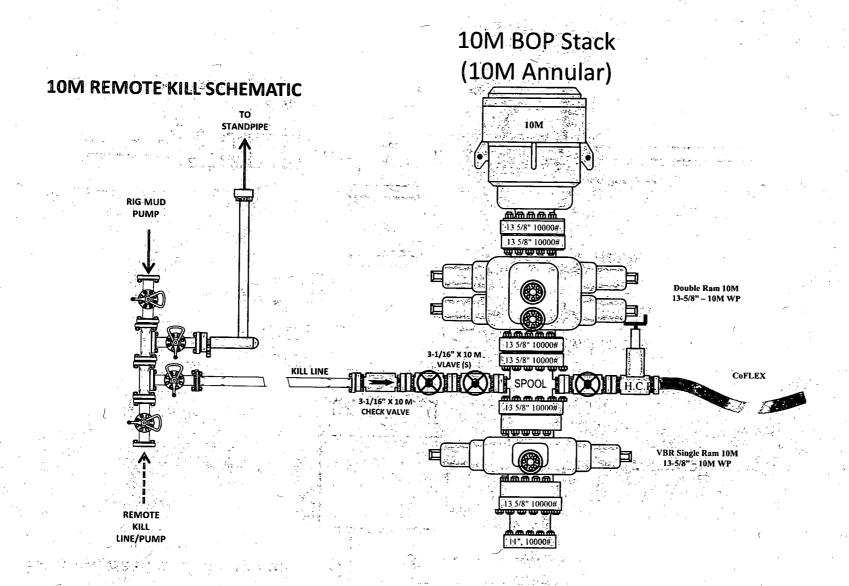


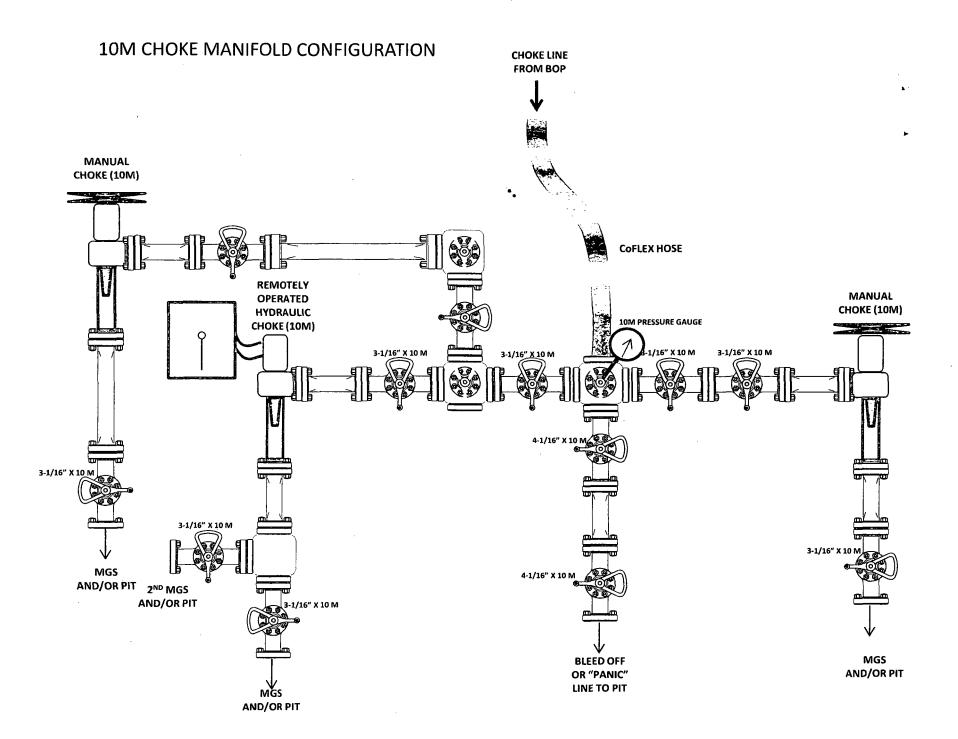
5,000 psi BOP Schematic





10M BOP Stack







Midwest Hose & Specialty, Inc.

Q3	peciany, me.
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 cur	ed for the referenced purchase order to be true according in the referenced purchase order to be true according in the referenced purchase order to be true according in the referenced purchase order to be true according in the referenced purchase order to be true according in the referenced purchase order to be true according in the referenced purchase order to be true according in the referenced purchase order to be true according in the referenced purchase order to be true according in the referenced purchase order to be true according in the referenced purchase order to be true according in the referenced purchase order to be true according in the referenced purchase order to be true according in the reference order.
Supplier: Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd	
Midwest Hose & Specialty, Inc.	
Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd Oklahoma City, OK 73129 Comments:	
Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd Oklahoma City, OK 73129	Date



Midwest Hose & Specialty, Inc.

Customer: LATSHAW [DRILLING	Customer P.O.# RIG#44	
les Order # 242739		Date Assembled: 2/9/2015	
	Sp	ecifications	
Hose Assembly Type:	Choke & Kill		
Hose Assembly Type: Assembly Serial #	Choke & Kill 292614-2	Hose Lot # and Date Code 1:	1794-10/14

We hereby certify that the above material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards.

Supplier:

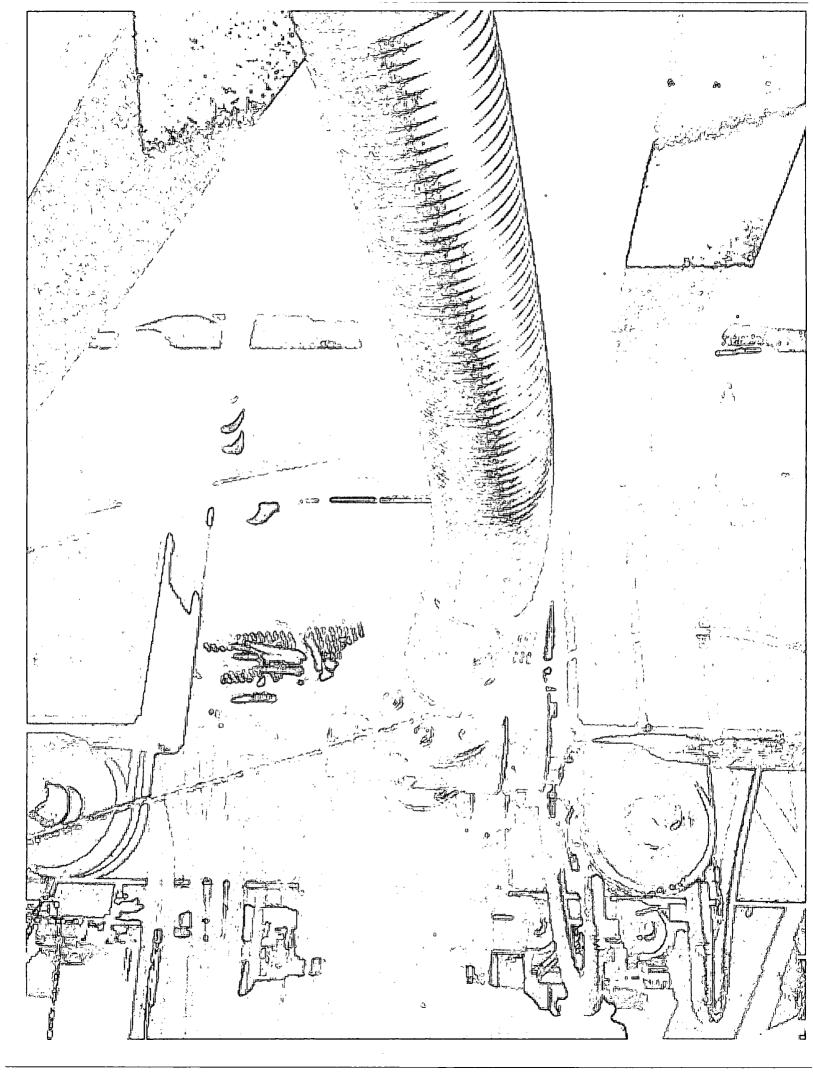
Midwest Hose & Specialty, Inc.

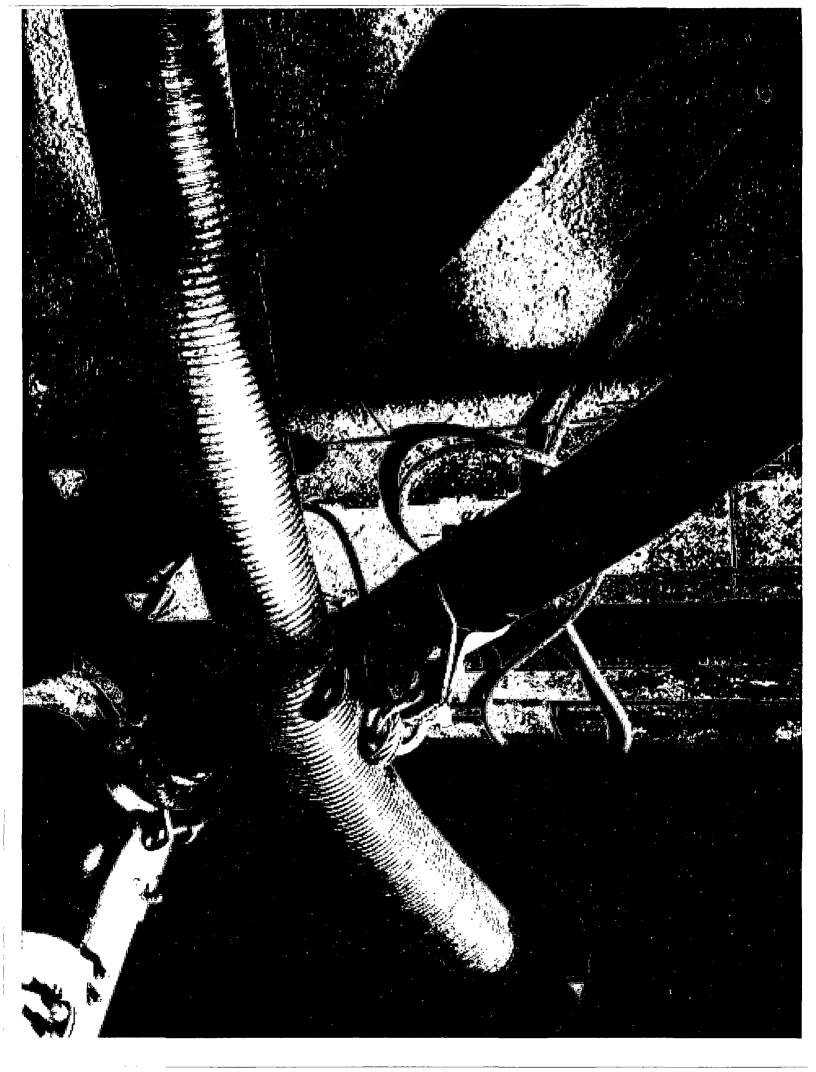
3312 S I-35 Service Rd

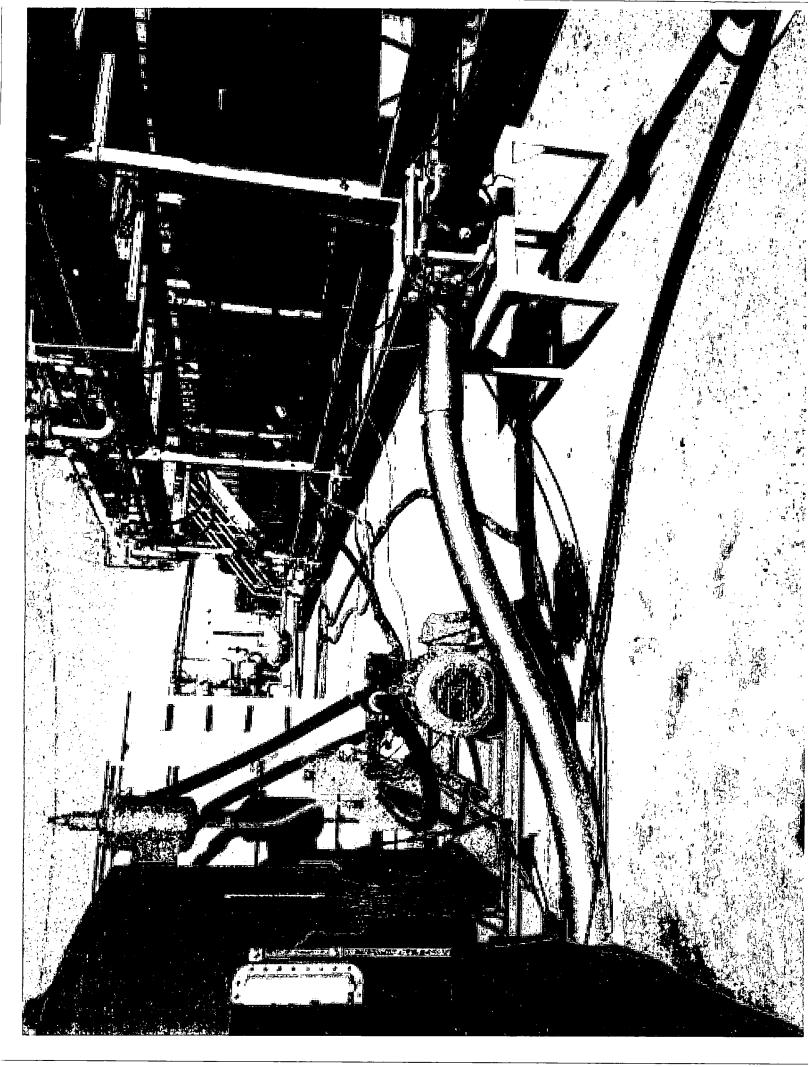
Oklahoma City, OK 73129

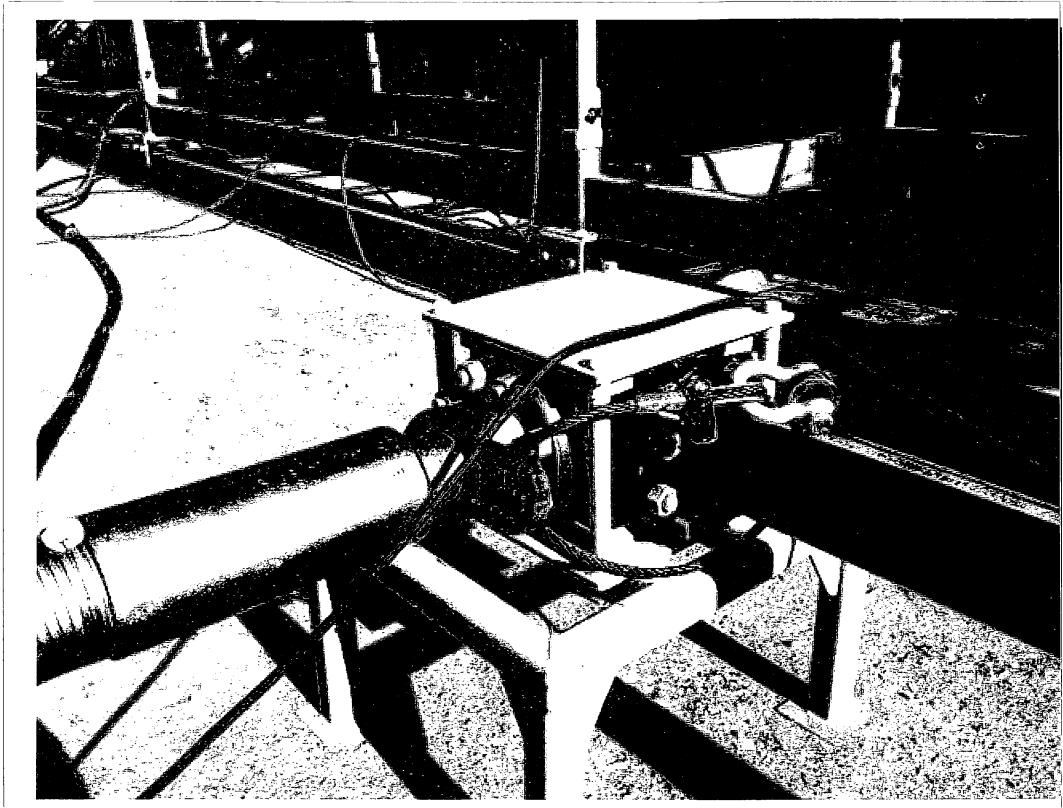
Comments:

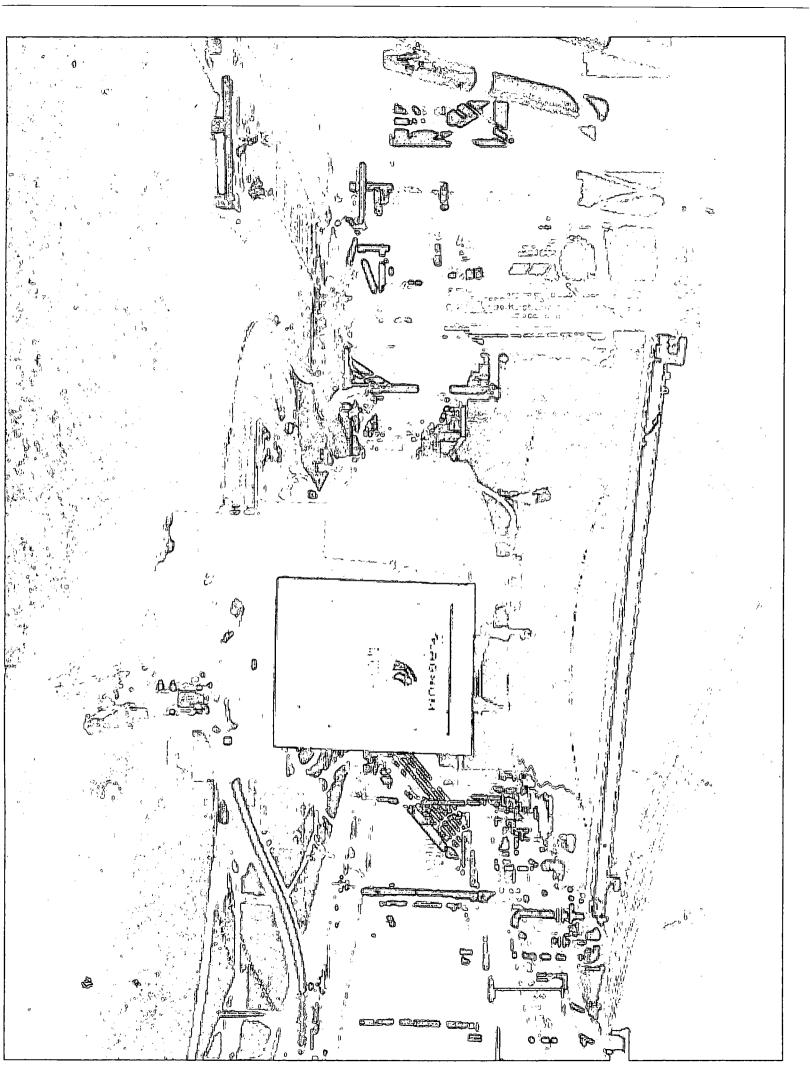
Approved By	Date
Fran Alama	2/10/2015



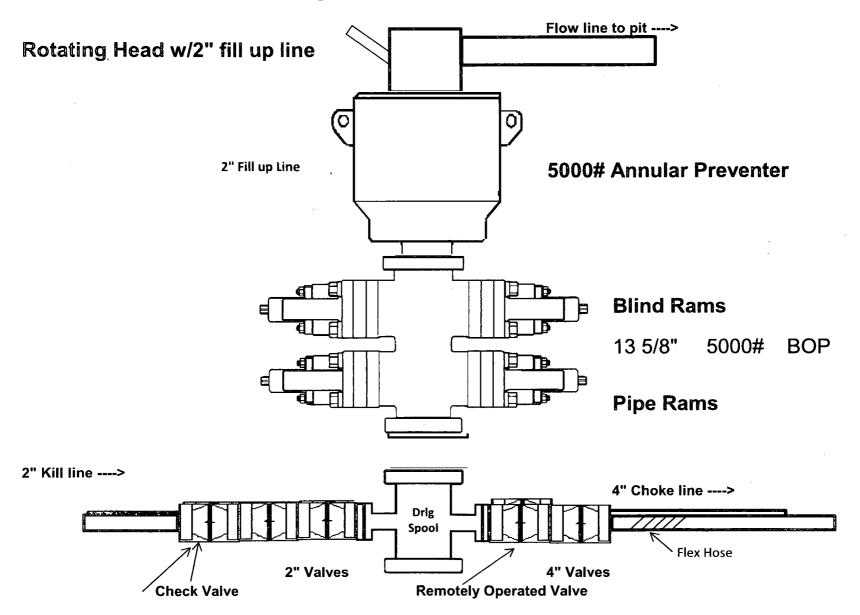


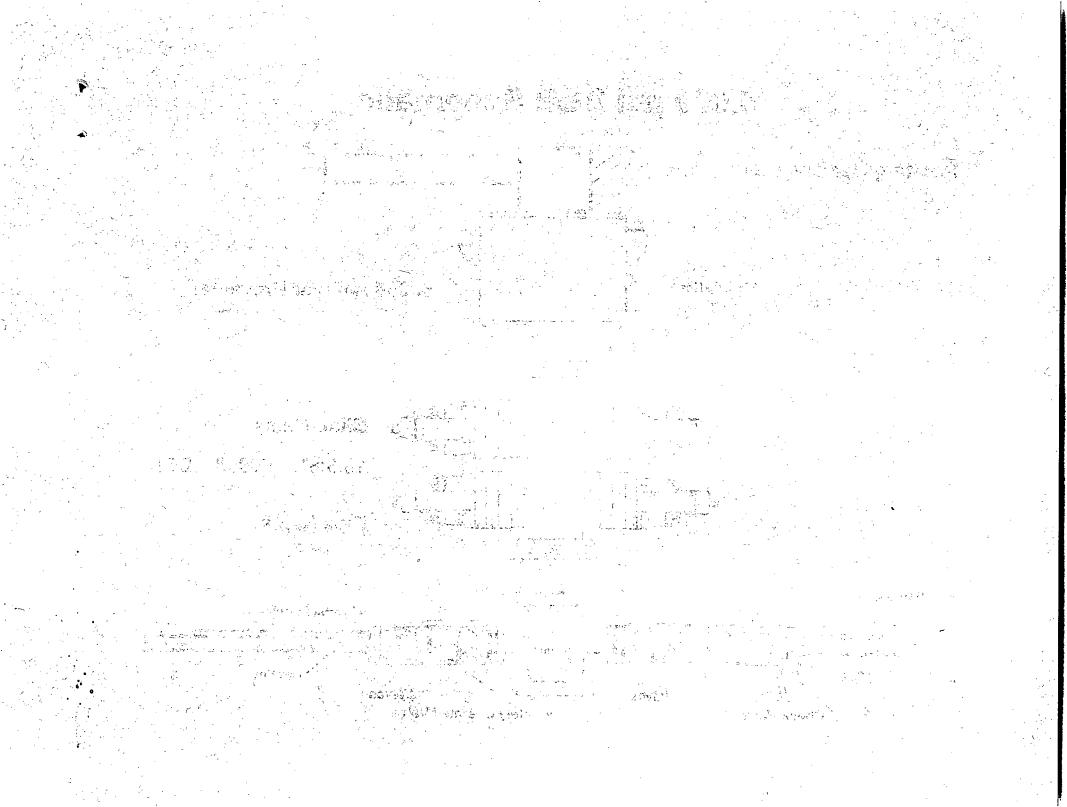






5,000 psi BOP Schematic







Midwest Hose & Specialty, Inc.

Certifica	ate of Conformity	
Customer: LATSHAW DRILLING	Customer P.O.# RIG#44	
Sales Order # 242739	Date Assembled: 2/9/2015	
Sp	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 supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards.

Supplier:

Midwest Hose & Specialty, Inc.

3312 S I-35 Service Rd

Oklahoma City, OK 73129

Comments:

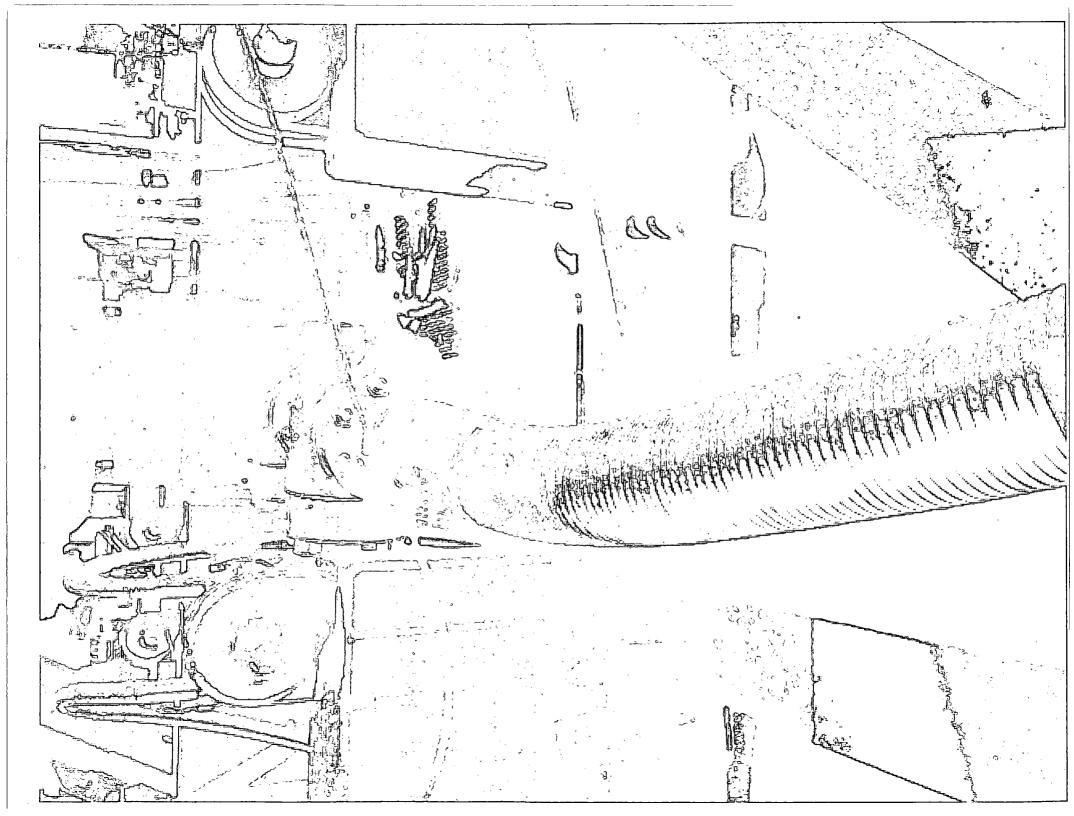
Approved By	Date
Fran Alama	2/10/2015

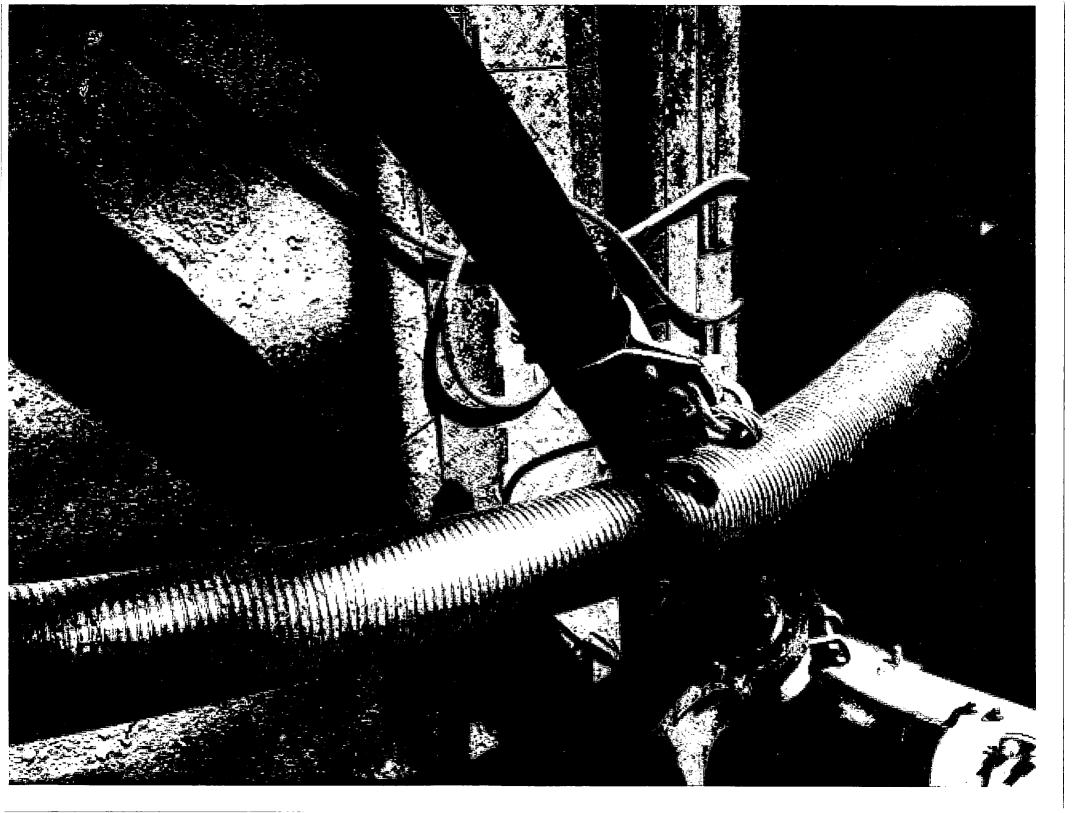


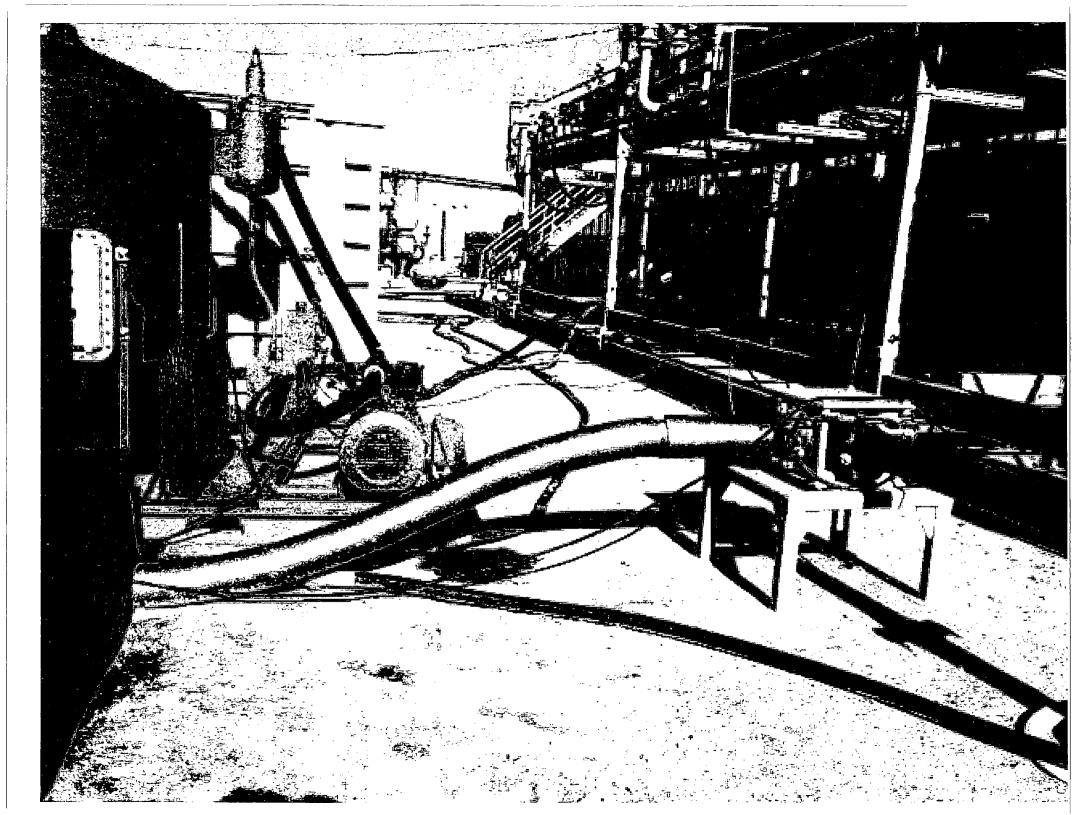
Midwest Hose & Specialty, Inc.

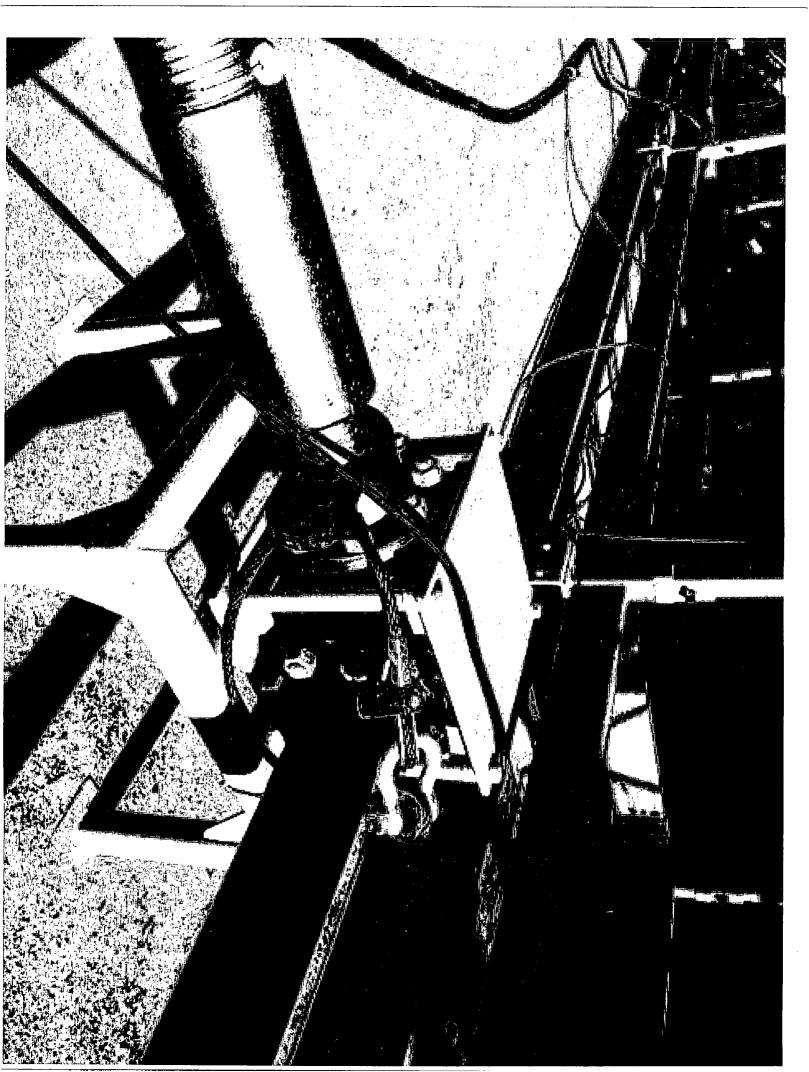
Certificato	e of Conformity
Customer: LATSHAW DRILLING	Customer P.O.# RIG#44
Sales Order # 242739	Date Assembled: 2/9/2015
Spec	cifications
Hose Assembly Type: Choke & Kill	
Assembly Serial # 292614-2	Hose Lot # and Date Code 11794-10/14
Hose Working Pressure (psi) 10000	Test Pressure (psi) 15000
We hereby certify that the above material supplied , to the requirements of the purchase order and curre	for the referenced purchase order to be true according ent industry standards.
Supplier:	
Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd	
Oklahoma City, OK 73129	
Comments:	
Approved By	Date

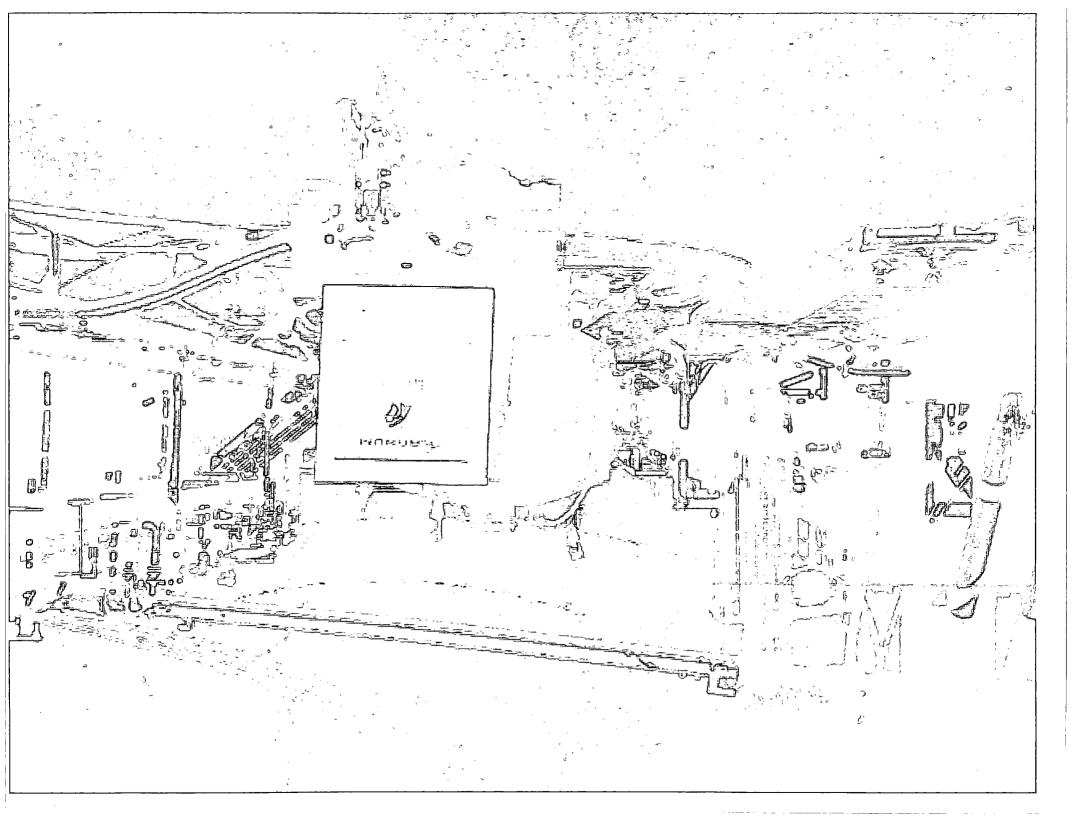
Date 2/10/2015











		sing erval		Weight			SF-		SF	
Hole Size	From	Ţο	Csg. Size	√(lbs)	Grade	Conn.	Collapse	, SF Burst	Body	
13.5"	. 0	1200	10.75"	45.5	N80	BTC	4.50	1.18	19.05	
9.875"	0	12040	7.875"	29.7	P110	BTC	1.26	1.03	3.04	
6.75"	0	11540	5.5"	23	P110	BTC	1.82	1.89	3.17	
6.75"	11540	17,581	5"	18	P110	втс	1.82	1.89	3.17	
				BLM Min	imum Saf	fety Factor	1.125	1	1.6 Dry 1.8 Wet	

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

The 5" casing will be run back 500' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

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

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6 3/4"	0'-	22;397'	5.5"	23	P110	Ultra SF	1.95.	1.95	2:5
		No.	강화 역사	BLM M	inimum Sa	fety Factor	1.125	1.125	1.6 Dry
				* 4			*		1.8 Wet

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

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COG Operating LLC, Columbus Federal Com 21H

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9.875"	. 0 -	12040	7.875"	29.7	-P110-	BTC	1.26	1.03	3.04
6.75"	0	11540	5.5"	23	P110	BTC	1.82	1.89	3.17
∘ 6.75"	11540	17,581	5"	18	P110	втс	1.82	1.89	3.17
		tui ii.		BLM Min	imum Sat	ety Factor	. 1.125	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.6 Dry ∴ 1.8 Wet ∴

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The 5" casing will be run back 500' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

	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).	Υ
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Υ
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef? Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	,
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing	#Sks	Wt. lb/ gal	YId ft3/ sack	H ₂ 0 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	190	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	990	10.3	3.6	21.48	16	Tuned Light Blend
Inter.	250	16.4	1.08	4.32	8	Tail: Class H
Prod	140	11.9	2.5	19	72	Lead: 50:50:10 H Blend
Prod	650	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

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

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0,	50%
Production	11,540'	35% OH in Lateral (KOP to EOL)

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	ular	Х	3000 psi
			Blind	Ram		5M
9-7/8"	13-5/8"	5M	Pipe	Ram		
			Double	Ram		DIVI
			Other*	_		
			Ann	ular	×	50% testing pressure
6-3/4"	13-5/8"	10M	Blind	Ram	х	
			Pipe	Ram	Х	10M
			Double Ram			TOM
			Other*			

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

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

	Formation integrity test will be performed per Onshore Order #2.
×	On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
	N Are anchors required by manufacturer?
N	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

5. Mud Program

From	,Depth Το	Туре	Weight (ppg)	Viscosity	Water Loss
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	9-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 9	28-34	N/C
7-5/8" Int shoe	Lateral TD	ОВМ	9.6 - 12	35-45	<20

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

NAME AND ADDRESS OF THE PARTY O	D) (T/D) 0 (c) 1 1 4 1
What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
Titlat vill be about to interited the loop of gain of hala.	i viii accii vicaai ivoiitoi iig

6. Logging and Testing Procedures

Logging, Coring and Testing.	
	Will run GR/CNL from TD to surface (horizontal well –
Y	vertical portion of hole). Stated logs run will be in the
	Completion Report and submitted to the BLM.
V	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	7970 psi at 12770' TVD
Abnormal Temperature	NO 180 Deg. F.

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

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

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

N	H2S is present		·
Y	H2S Plan attached	 	

8. Other Facets of Operation

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

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



1. Component and Preventer Compatibility Table

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

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

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

2. Well Control and Shut-In Procedures

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

Drilling:

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

<u>Tripping:</u>

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



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

Running Casing

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

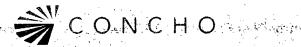
No Pipe in Hole (Open Hole)

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

Pulling BHA through BOP Stack

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

STAND BUTTON BUT



2. With BHA in the stack:

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

3. Well Control Drills

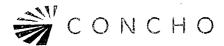
Well control drills are specific to the rig equipment, personnel and operation at the time a kick occurs. Each crew will execute one drill weekly relevant to ongoing operations, but will make a reasonable attempt to vary the type of drills. The drills will be recorded in the daily drilling log. Below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

Strain was not be as a fill for the

Control of Section Control

Drilling/Pit:

Action		Responsible Party
Initiate Drill	, i	may be the first parties of the first
 Lift Flow Sensor or Pit Float to indicate a kick 		Company Representative / Rig Manager
Immediately record start time	ું કેઈ	with the party of the control of the
Recognition • Driller and/or Crew recognizes indicator		to the state of th
 Driller stop drilling, pick up off bottom and spaces of string, stop pumps and rotary Conduct flow check 	1. 1	Driller
Initiate Action • Sound alarm, notify rig crew that the well is flowing		Company Representative / Rig Manager
Reaction Driller moves BOP remote and stands by Crew is at their assigned stations Time is stopped		Driller / Crew
Record time and drill type in the Drilling Report		which find the way of a second



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

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

Choke

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



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



APD ID: 10400025247

Submission Date: 12/05/2017

Highlighted data reflects the most recent changes

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

Well Number: 701H

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_701H_Roads_20171204152444.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 Well Number: 701H

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_701H_1Mile_Data_20171204152500.pdf

Existing Wells description:

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Production will be sent to the Dominator 25 Federal CTB 4 facility. A surface flow line of approximately 60.6' of 3.5" steel pipe carrying oil, gas and water under a maximum pressure of 125 psi will follow the road to the facility at the Dominator 25 Federal CTB 4 location. We plan to install a 4" surface polyethylene pipe transporting Gas Lift Gas from the Dominator 25 Federal CTB 4 to the multiple well pad that includes the Dominator 25 Federal Com #102H, #301H, #401H, #501H, #601H, #602H, 701H and #702H wells. The surface Gas Lift Gas pipe of approximately 60.6' 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_4_20171201102558.pdf

COG_Dominator_701H_Flowlines_20171204152513.pdf

COG_Dominator_701H_ProdFacil_20171204152522.pdf

Well Name: DOMINATOR 25 FEDERAL Well Number: 701H

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_701H_BrineH2O_20171204152543.pdf

COG_Dominator_701H_FreshH2O_20171204152552.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: 701H

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer 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

Waste disposal frequency: Weekly

gallons

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: 701H

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: 701H

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: YES

Ancillary Facilities attachment:

COG_Dominator_701H_GCP_20171204152626.pdf

Comments: GCP Attached

Section 9 - Well Site Layout

Well Site Layout Diagram:

COG Dominator CTB 4 20171201102619.pdf

COG Dominator 701H Flowlines 20171204152642.pdf

COG Dominator 701H ProdFacil 20171204152650.pdf

Comments: Production will be sent to the Dominator 25 Federal CTB 4 facility. A surface flow line of approximately 60.6' of 3.5" steel pipe carrying oil, gas and water under a maximum pressure of 125 psi will follow the road to the facility at the Dominator 25 Federal CTB 4 location. We plan to install a 4" surface polyethylene pipe transporting Gas Lift Gas from the Dominator 25 Federal CTB 4 to the multiple well pad that includes the Dominator 25 Federal Com #102H, #301H, #401H, #501H, #601H, #602H, 701H and #702H wells. The surface Gas Lift Gas pipe of approximately 60.6' under a maximum pressure of 125 psi will be installed no farther than 10 feet from the edge of the road.

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: DOMINATOR 25 FEDERAL

Multiple Well Pad Number: 102H, 301H, 401H, 501H, 601H, 602H,

701H AND 702H

Recontouring attachment:

Drainage/Erosion control construction: Due to the relatively flat topography of this well pad, 460' of waddles would be placed on the north side of the well pad to avoid surface erosion to reduce sediment impacts to fragile/sensitive soils. 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): 0.01

Other proposed disturbance (acres):

22.96

Total proposed disturbance: 30.26

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

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

Powerline interim reclamation (acres):

Pipeline interim reclamation (acres):

Other interim reclamation (acres): 0

Total interim reclamation: 4.36

(acres): 2.94

Powerline long term disturbance

(acres): 0

Pipeline long term disturbance

(acres): 0.01

Other long term disturbance (acres):

Total long term disturbance: 29.53

Reconstruction method: New construction of pad.

Operator Name: COG OPERATING LLC Well Name: DOMINATOR 25 FEDERAL Well Number: 701H 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 name:

Seed type: Seed source:

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: 701H

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_701H_Closed_Loop_20171204152705.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: 701H

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

 ${\tt COG_Dominator_701H_Certif_20171204152757.pdf}$



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 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 Disso that of the existing water to be protected?	ved 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 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:	

U.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:

Surface Use Plan COG Operating LLC Dominator 25 Federal 701H SHL: 280' FSL & 600' FEL Section 25, T25S, R33E BHL: 200' FNL & 330' FEL

UL P UL A

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

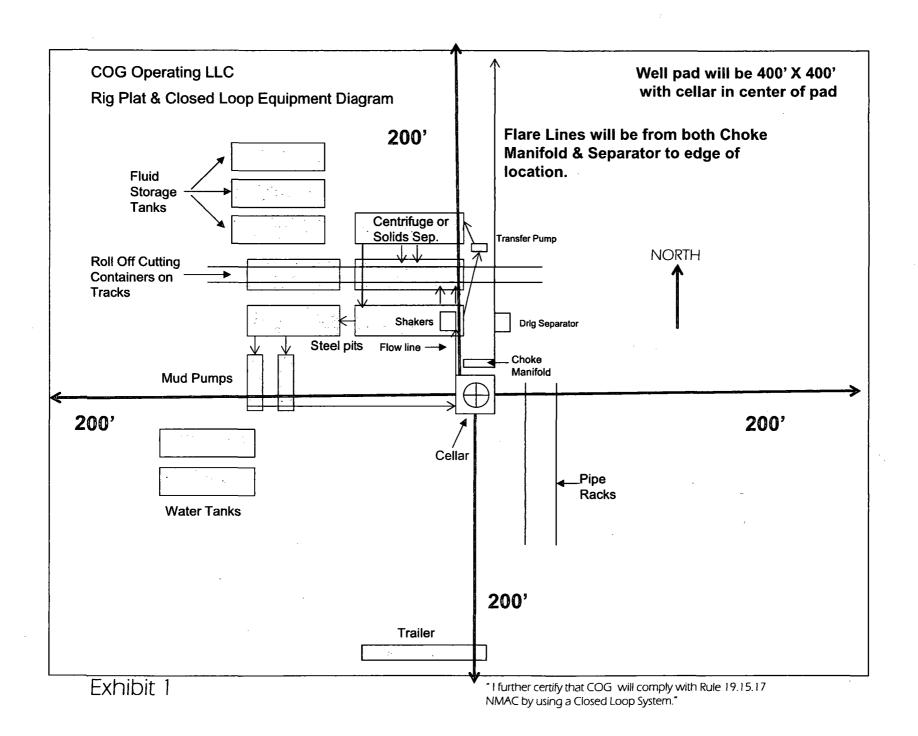
Signed:

Printed Name: Mayte Reyes Position: Regulatory Analyst

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

Telephone: (575) 748-6945 E-mail: mreyesl@concho.com

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



Well Name: DOMINATOR 25 FEDERAL

Well Number: 701H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	ease Type	Lease Number	Elevation	MD	TVD
EXIT Leg #1	330	FNL	330	FEL	258	33E	25	Aliquot NENE	32.10785 5		LEA	NEW	NEW MEXI CO	F	NMNM 114987	- 942 7	174	127 50
BHL Leg #1	200	FNL	330	FEL	258	33E	25	Aliquot NENE	32.10821 2	- 103.5185 89	LEA.	NEW MEXI CO	NEW MEXI CO	F	NMNM 114987	- 944 7	175 81	127 70