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

Sundry Print Report

Well Name: MERCILESS 13 FED COM Well Location: T25S / R32E / SEC 13 / County or Parish/State:

NENE /

Well Number: 724H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM110835 Unit or CA Name: Unit or CA Number:

US Well Number: 3002547679 Well Status: Approved Application for Operator: EOG RESOURCES

Permit to Drill INCORPORATED

Notice of Intent

Type of Submission: Notice of Intent

Type of Action Other

Date Sundry Submitted: 04/14/2021 Time Sundry Submitted: 07:00

Date proposed operation will begin: 04/11/2021

Procedure Description: EOG respectfully requests an amendment to our approved APD for this well to reflect the

following changes: Update casing program to current design

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Merciless_13_Fed_Com_724H_Permit_Info___Rev_Casing_3.10.2021_REV_2_20210414065957.pdf

Wellhead_9.675_in_20210408151637.pdf

10_M_Choke_Manifold_20210408151615.pdf

EOG_BLM_10M_Annular_Variance____9.675_in_20210408151610.pdf

 $Co_Flex_Hose_Certification_20210408151608.pdf$

 $Co_Flex_Hose_Test_Chart_20210408151608.pdf$

 $5.750 in_21_ppf__0.375 in_Wall__L_80_VAM_TOP_SC80_CDS_USA_20210408151607.pdf$

 $7.625 in_29.70_P110 HC_FX L_20210408151607.pdf$

 $10_M_BOP_Diagram_9.675_in_20210408151607.pdf$

10_M_BOP_Diagram_13.375_in_20210408151607.pdf

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Permit to Drill INCORPORATED

Page 2 of

 $5.50 in_20_ppf_P110_ICY_TXP_20210408151607.pdf$

5.750in_21_ppf__0.375in_Wall__VST_P110EC_VAM_SFC_SC_w_MTS_CDS_USA_20210408151607.pdf

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: STAR HARRELL Signed on: APR 14, 2021 07:00 AM

Name: EOG RESOURCES INCORPORATED

Title: Regulatory Specialist

Street Address: 5509 CHAMPIONS DRIVE

City: MIDLAND State: TX

Phone: (432) 848-9161

Email address: Star_Harrell@eogresources.com

Field Representative

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234 BLM POC Email Address: cwalls@blm.gov

Disposition: Approved **Disposition Date:** 04/16/2021

Signature: Chris Walls

Page 2 of 2

Revised Permit Information 3/10/2021:

Well Name: Merciless 13 Fed Com #724H

Location:

SHL: 251' FNL & 487' FEL, Section 13, T-25-S, R-32-E, Lea Co., N.M. BHL: 2540' FNL & 660' FEL, Section 24, T-25-S, R-32-E, Lea Co., N.M.

Casing Program:

Hole		Csg				$\mathbf{DF}_{\mathbf{min}}$	DF _{min}	$\mathbf{DF}_{\mathbf{min}}$
Size	Interval	OD	Weight	Grade	Conn	Collapse	Burst	Tension
12.25"	0'-1,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0'-11,126'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0' - 7,500'	5.75"	21.8#	L-80	VAM TOP	1.125	1.25	1.60
					SC80			
6.75"	7,500' –	5.75"	21.8#	VST	VAM SFC	1.125	1.25	1.60
	11,200'			P110EC				
6.75"	11,200' –	5.5"	20#	P110-ICY	TXP BTC	1.125	1.25	1.60
	20,103'							

Variance is requested to waive the centralizer requirements for the 7-5/8" casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive any centralizer requirements for the 5-3/4" and 5-1/2" casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive the annular clearance requirements for the 5-3/4" and 5-1/2" casing by 7-5/8" casing annulus to the proposed top of cement.

EOG requests permission to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions:

- Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings.
- Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

Cement Program:

	No.	Wt.	Yld	
Depth	Sacks	ppg	Ft ³ /sk	Slurry Description
1,000'	290	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 0.25
9-5/8"				lb/sk Cello-Flake (TOC @ Surface)
	80	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2%
				Sodium Metasilicate (TOC @ 800')
11,126'	460	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 +
7-5/8"				3% Microbond (TOC @ 7,172')
	1,230	14.8	1.5	2 nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1%
				PreMag-M + 6% Bentonite Gel (TOC @ surface)
20,103'	820	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3%
5-3/4"				Microbond (TOC @ 10,626')
5-1/2"				

Additive	Purpose
Bentonite Gel	Lightweight/Lost circulation prevention
Calcium Chloride	Accelerator
Cello-flake	Lost circulation prevention
Sodium Metasilicate	Accelerator
MagOx	Expansive agent
Pre-Mag-M	Expansive agent
Sodium Chloride	Accelerator
FL-62	Fluid loss control
Halad-344	Fluid loss control
Halad-9	Fluid loss control
HR-601	Retarder
Microbond	Expansive Agent

EOG requests variance from minimum standards to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated TOC at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary a top out consisting of 1,000 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Top of cement will be verified by Echo-meter.

EOG will include the final fluid top verified by Echo-meter and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0-1,000	Fresh - Gel	8.6-8.8	28-34	N/c
1,000' - 11,126'	Brine	10.0-10.2	28-34	N/c
11,126' – 12,060'	Oil Base	8.7-9.4	58-68	N/c - 6
12,060' - 20,103'	Oil Base	10.0-14.0	58-68	3 - 6
Lateral				

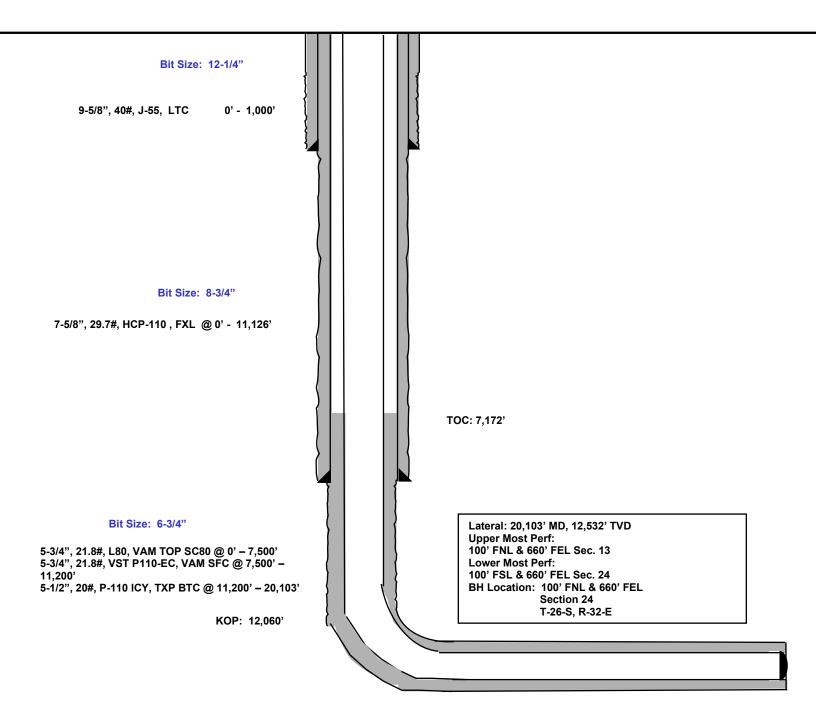
Variance is requested to use a 5,000 psi annular BOP with the 10,000 psi BOP stack.

251' FNL 487' FEL Section 13 T-25-S, R-32-E

Revised Wellbore

API: 30-025-47679

KB: 3,518' GL: 3,493'



Metal One Corp.		MO-F	(1	Page MCTP		
37.10			isto-di e	Date	3-Nov-	16
Metal O	ne	Connection D	ata Sheet	D		
			Rev.	0		
		Geometry	<u>ıl</u>	<u>S.I.</u>		
		Pipe Body				
		Grade	P110HC *1		P110HC *1	
		Pipe OD (D)	7 5/8	in	193.68	mm
MO-FXI		Weight	29.70	lb/ft	44.25	kg/m
		Actual weight	29.04		43.26	kg/m
		Wall Thickness (t)	0.375	in	9.53	mm
		Pipe ID (d)	6.875	in	174.63	mm
		Pipe body cross section	8.537	in ²	5,508	mm ²
		Drift Dia.	6.750	in	171.45	mm
			_			
		Connection				
_		Box OD (W)	7.625	in	193.68	mm
↑ 👄		PIN ID	6.875	in	174.63	mm
		Make up Loss	4.219	in	107.16	mm
	Box	Box Critical Area	5.714	in ²	3686	mm ²
critical		Joint load efficiency	70	%	70	%
2	critical					
1 1	area	Thread Taper			2" per ft)	
	area	Thread Taper Number of Threads			2" per ft) TPI	
Make up	area d	Number of Threads Performance	1			
	area	Performance Performance Properti	es for Pipe Body	5	TPI	LNI
up C	area d	Performance Performance Properti S.M.Y.S. *1	es for Pipe Body	5 kips	TPI 4,747	kN MDa
up	d D	Performance Performance Properti S.M.Y.S. *1 M.I.Y.P. *1	es for Pipe Body 1,067 10,760	kips psi	4,747 74.21	MPa
up C	d D Pin critical	Performance Performance Properti S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1	es for Pipe Body 1,067 10,760 7,360	kips psi psi	4,747 74.21 50.76	MPa MPa
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For the latest performance data, always visit our website: www.tenaris.com

March 10 2017



Casing/Tubing: CAS

Connection: TenarisXP® BTC

Coupling Option: REGULAR

Size: 5.500 in. Wall: 0.361 in.

Weight: 20.00 lbs/ft

Grade: P110-ICY

Min. Wall Thickness: 87.5 %

		GEOMET	TRY		
Nominal OD	5,500 in.	Nominal Weight	20.00 bs/ft	Standard Drift Diameter	4,653 in.
Nominal ID	4,778 in.	Wall Thickness	0,361 in.	Special Drift Diameter	N/A
Plain End Weight	19.83 bs/ft				
		PERFORM	ANCE		
Body Yie l d Strength	729 × 1000 lbs	Internal Yield	14360 psi	SMYS	125000 psi
Collapse	12100 psi				
	TEI	NARISXP® BTC CO		ATA	
		GEOMET		Τ	
Connection OD	6,100 in.	Coupling Length	9,450 in.	Connection ID	4,766 in.
Critical Section Area	5.828 sq. in.	Threads per in.	5.00	Make-Up Loss	4.204 in.
		PERFORM	ANCE		
Tension Efficiency	100 %	Joint Yield Strength	729 x 1000 lbs	Internal Pressure Capacity ⁽¹⁾	14360 psi
Structural Compression Efficiency	100 %	Structural Compression Strength	729 x 1000 lbs	Structural Bending(2)	104 °/100 f
External Pressure Capacity	12100 psi				
	E	STIMATED MAKE-L	JP TORQUES	3)	
Minimum	11540 ft-bs	Optimum	12820 ft- bs	Maximum	14100 ft- b
		OPERATIONAL LIE	MIT TORQUES		

BLANKING DIMENSIONS

Blanking Dimensions

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(1) Internal Pressure Capacity related to structural resistance only. Internal pressure leak resistance as per

Hose Inspection Report

ContiTech Oil & Marine

Customer	Customer Reference #	CBC Reference #	CBC Inspector	Date of Inspection
H&P Drilling	740021604	COM906112	A. Jaimes	10/17/2016

Hose Manufacturer	Contitech Rubber Industrial
--------------------------	-----------------------------

Hose Serial #	62429		Date of Manufacture	05/2012
Hose I.D.	3"		Working Pressure	10000PSI
Hose Type	Choke and	Kill	Test Pressure	15000PSI
Manufacturing Stan	dard	API 16C		

Connections

End A: 3.1/16" 10KPsi API Spec 6A Type 6BX Flange	End B: 3.1/16" 10Kpsi API Spec 6A Type 6BX Flange
No damage	No damage
Material: Carbon Steel	Material: Carbon Steel
Seal Face: BX154	Seal Face: BX154
Length Before Hydro Test: 16'	Length After Hydro test: 16'

Conclusion: Hose #62429 passed the external inspection with no notable damages to the hose armor. Internal borescope of the hose showed no damage to the hose liner. Hose #62429 passed the hydrostatic pressure test by holding a pressure of 15,000PSI for 60 minutes. Hose #62429 is suitable for continued service.

Recommendations: In general the hose should be inspected on a regular on-going basis. The frequency and degree of the inspection should as a minimum follow these guidelines:

Visual inspection: Every 3 months (or during installation/removal)

Annual: In-situ pressure test

Initial 5 years service: Major inspection 2nd Major inspection: 8 / 10 years of service

(Detailed description of test regime available upon request, ISS-059 Rev 04)

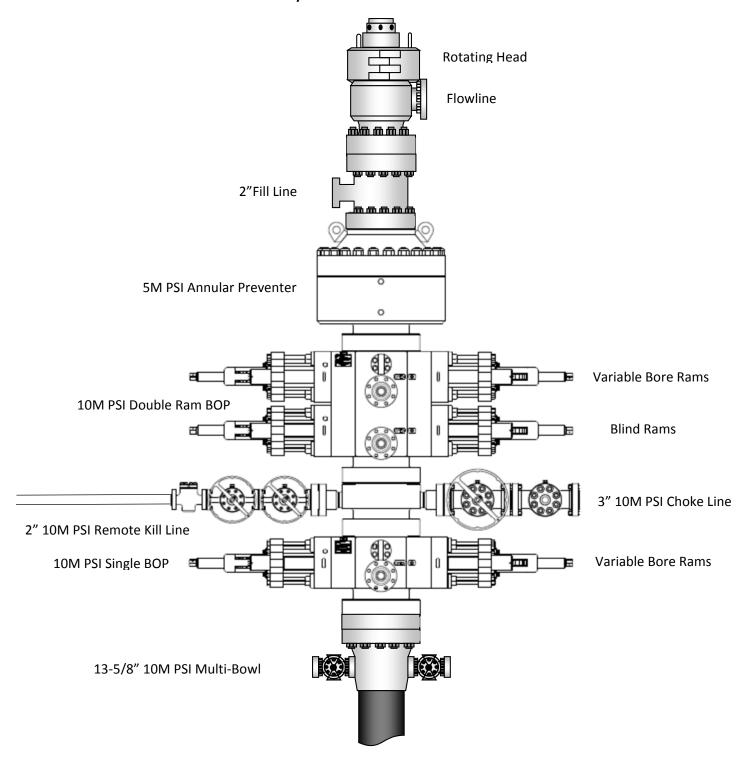
**NOTE: There are a number of critical elements in the hose that cannot be thoroughly checked through standard inspection techniques. Away from dissecting the hose body, the best way to evaluate the condition of the hose is through review of the operating conditions recorded during the hose service life, in particular maximums and peak conditions.

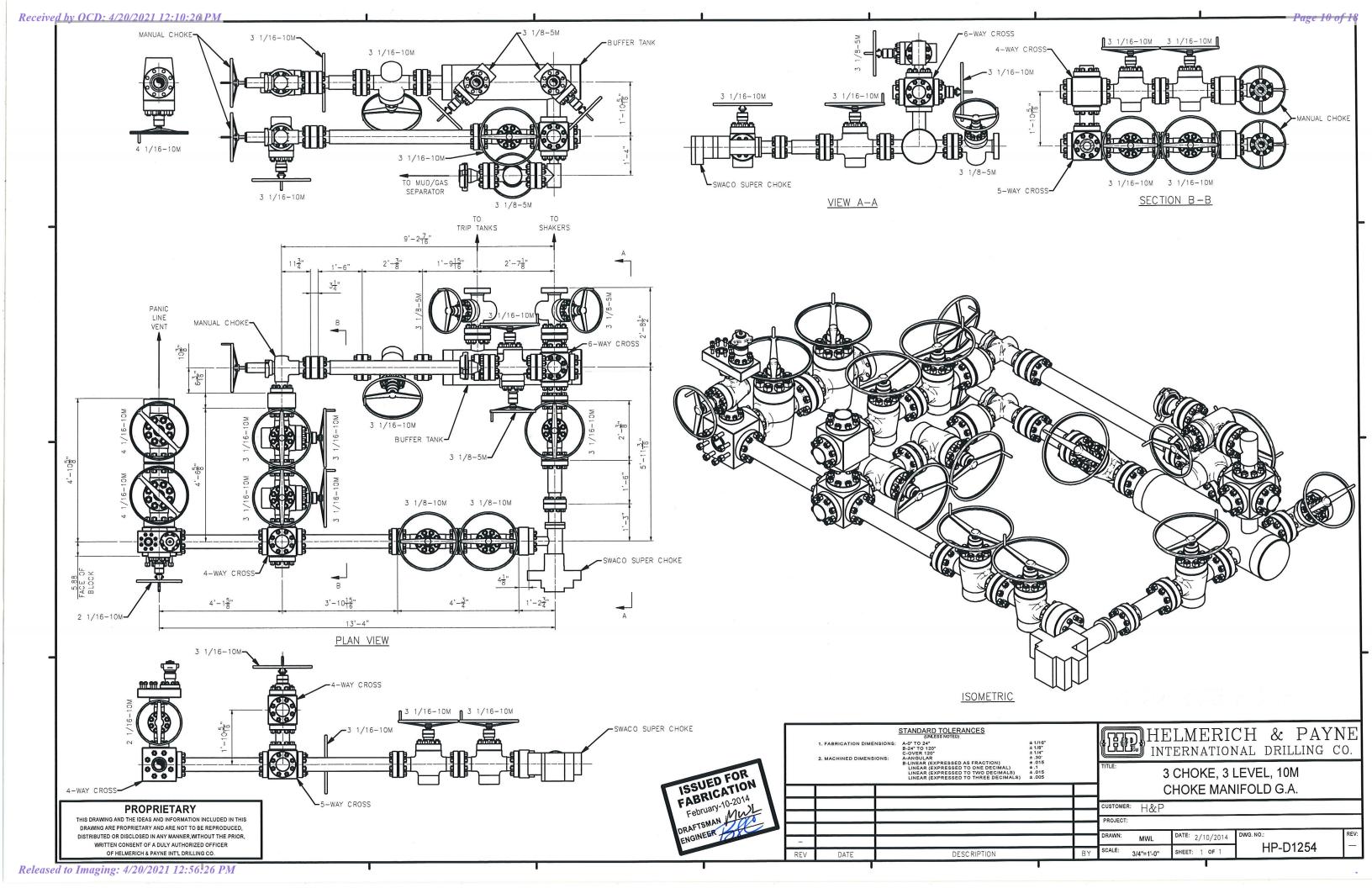
Issued By: Alejandro Jaimes **Date:** 10/25/2016

Checked By: Jeremy Mckay
Date: 10/25/2016

QF97

Exhibit 1
EOG Resources
13-5/8" 10M PSI BOP Stack





10,000 PSI BOP Annular Variance Request

EOG Resources request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOP).

1. Component and Preventer Compatibility Tables

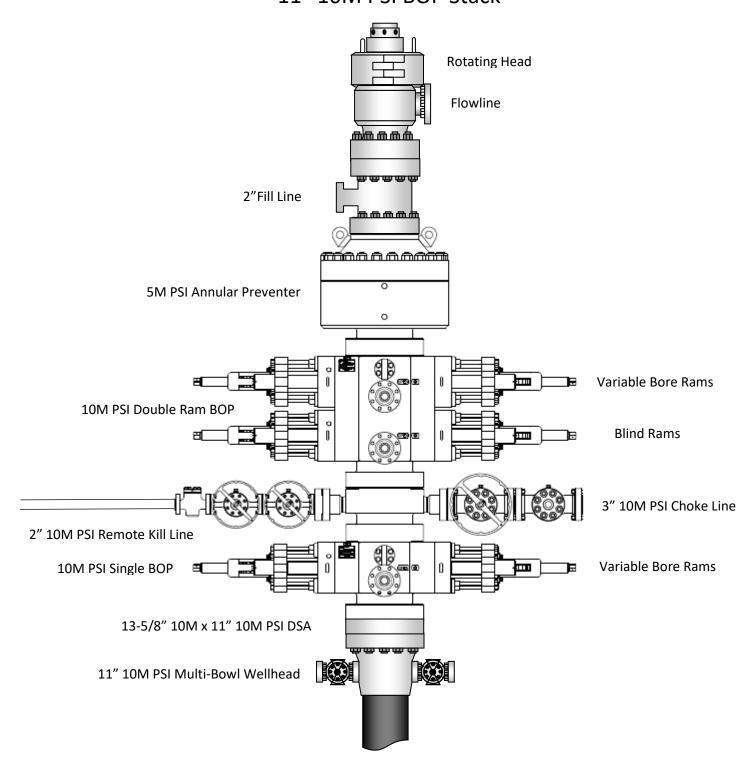
The tables below outlines the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

9-7/8" & 8-3/4" Intermediate Hole Section								
10M psi requirement								
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP			
Drillpipe	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M			
				Lower 3.5 - 5.5" VBR	10M			
HWDP	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M			
				Lower 3.5 - 5.5" VBR	10M			
Jars	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M			
				Lower 3.5 - 5.5" VBR	10M			
DCs and MWD tools	6.500 - 8.000"	Annular	5M	-	-			
Mud Motor	6.750 – 8.000"	Annular	5M	-	-			
Intermediate casing	7.625"	Annular	5M	-	-			
Open-hole	-	Blind Rams	10M	-	-			

	6-3/4" Production Hole Section							
10M psi requirement								
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP			
Drillpipe	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M			
				Lower 3.5 - 5.5" VBR	10M			
HWDP	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M			
				Lower 3.5 - 5.5" VBR	10M			
DCs and MWD tools	4.750 – 5.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M			
				Lower 3.5 - 5.5" VBR	10M			
Mud Motor	4.750 – 5.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M			
				Lower 3.5 - 5.5" VBR	10M			
Mud Motor	5.500 – 5.750"	Annular	5M	-	-			
Production casing	5.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M			
				Lower 3.5 - 5.5" VBR	10M			
Open-hole	-	Blind Rams	10M	-	-			

VBR = Variable Bore Ram

EOG Resources 11" 10M PSI BOP Stack



2. Well Control Procedures

Below are the minimal high-level 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. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the EOG Resources drilling supervisor's office on location, and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 100% of its RWP.

General Procedure While Drilling

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps (stop pumps and rotary)
- 4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

- 1. Sound alarm (alert crew)
- 2. Stab full opening safety valve and close
- 3. Space out drill string
- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full opening safety valve and close
- 3. Space out string

- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

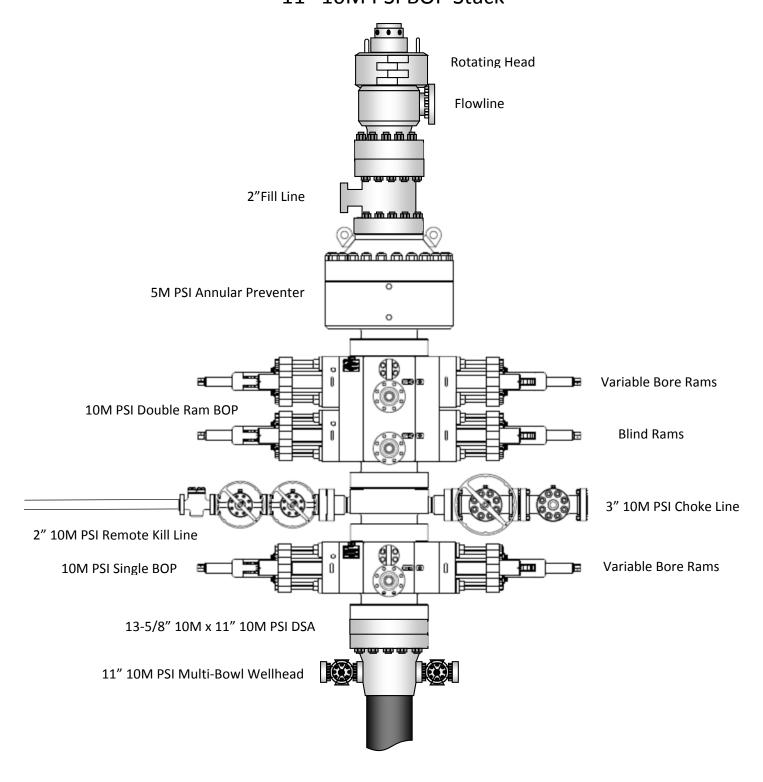
- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams. (HCR and choke will already be in the closed position.)
- 3. Confirm shut-in
- 4. Notify toolpusher/company representative
- 5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
- 6. Regroup and identify forward plan

General Procedures While Pulling BHA thru Stack

- 1. PRIOR to pulling last joint of drillpipe thru the stack.
 - a. Perform flowcheck, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper variable bore rams.
 - e. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the upper variable bore rams.
 - d. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP

- ii. Pit gain
- iii. Time
- h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario.
 - c. If impossible to pick up high enough to pull the string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper variable bore ram.
 - f. Shut-in using upper variable bore ram. (HCR and choke will already be in the closed position.)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan

Exhibit 1 EOG Resources 11" 10M PSI BOP Stack



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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 24811

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
EOG RESOURCES INC	P.O. Box 2267	Midland, TX79702	7377	24811	C-103A

OCD Reviewer	Condition
pkautz	None