

Well Name: DOGWOOD 23 FED COM	Well Location: T26S / R33E / SEC 23 / SWSE / 32.0222438 / -103.539856	County or Parish/State: LEA / NM
Well Number: 741H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM122622	Unit or CA Name:	Unit or CA Number: NMNM139194
US Well Number: 300254409500X1	Well Status: Approved Application for Permit to Drill	Operator: EOG RESOURCES INCORPORATED

Notice of Intent

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 03/11/2021

Time Sundry Submitted: 08:17

Date proposed operation will begin: 05/09/2021

Procedure Description: EOG respectfully requests an amendment to our approved APD for this well to reflect the following changes: Change well number from 704H to 741H Update casing program to current design Change BHL to T-26-S R-33-E Sec 14 100 feet FNL 450 feet FEL Lea Co, NM Increase HSU to 1280.00 acres Revise directional plan to include back build

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Wellhead_9.675_in_20210311081721.pdf
- EOG_BLM_10M_Annular_Variance___9.675_in_20210311081715.pdf
- Dogwood_23_Fed_Com_741H_Wall_Plot_20210311081715.pdf
- Dogwood_23_Fed_Com_741H_Permit_Info___Rev_Name__target__HSU__BHL_2.25.2021_20210311081704.pdf
- Dogwood_23_Fed_Com_741H_Planning_Report_20210311081704.pdf
- 10_M_Choke_Manifold_20210311081654.pdf
- 5.500in_20.00_VST_P110EC_VAM_SFC_20210311081653.pdf
- Co_Flex_Hose_Test_Chart_20210311081654.pdf
- Co_Flex_Hose_Certification_20210311081653.pdf
- 10_M_BOP_Diagram_9.675_in_20210311081653.pdf

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10_M_BOP_Diagram_13.375_in_20210311081653.pdf

7.625in_29.70_P110HC_FXL_20210311081653.pdf

5.500in_20.00_VST_P110EC_DWC_C_IS_MS_Spec_Sheet_20210311081653.pdf

DOGWOOD_23_FED_COM_741H_C_102_20210311081640.pdf

Conditions of Approval

Additional Reviews

DOGWOOD_23_FED_COM_741H_APD_CHANGE_SUNDRY_Drilling_COAs_20210319105408.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: HARRELL

Signed on: MAR 11, 2021 08:17 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: STAR HARRELL

Street Address: 5509 CHAMPIONS DRIVE

City: MIDLAND **State:** TX

Zip: 79706

Phone: (432)848-9161

Email address: Star_Harrell@eogresources.com

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: 04/06/2021

Signature: Chris Walls

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-44095		² Pool Code 98097		³ Pool Name Sanders Tank; Upper Wolfcamp	
⁴ Property Code 319664		⁵ Property Name DOGWOOD 23 FED COM			⁶ Well Number 741H
⁷ OGRID No. 7377		⁸ Operator Name EOG RESOURCES, INC.			⁹ Elevation 3318'

¹⁰Surface Location

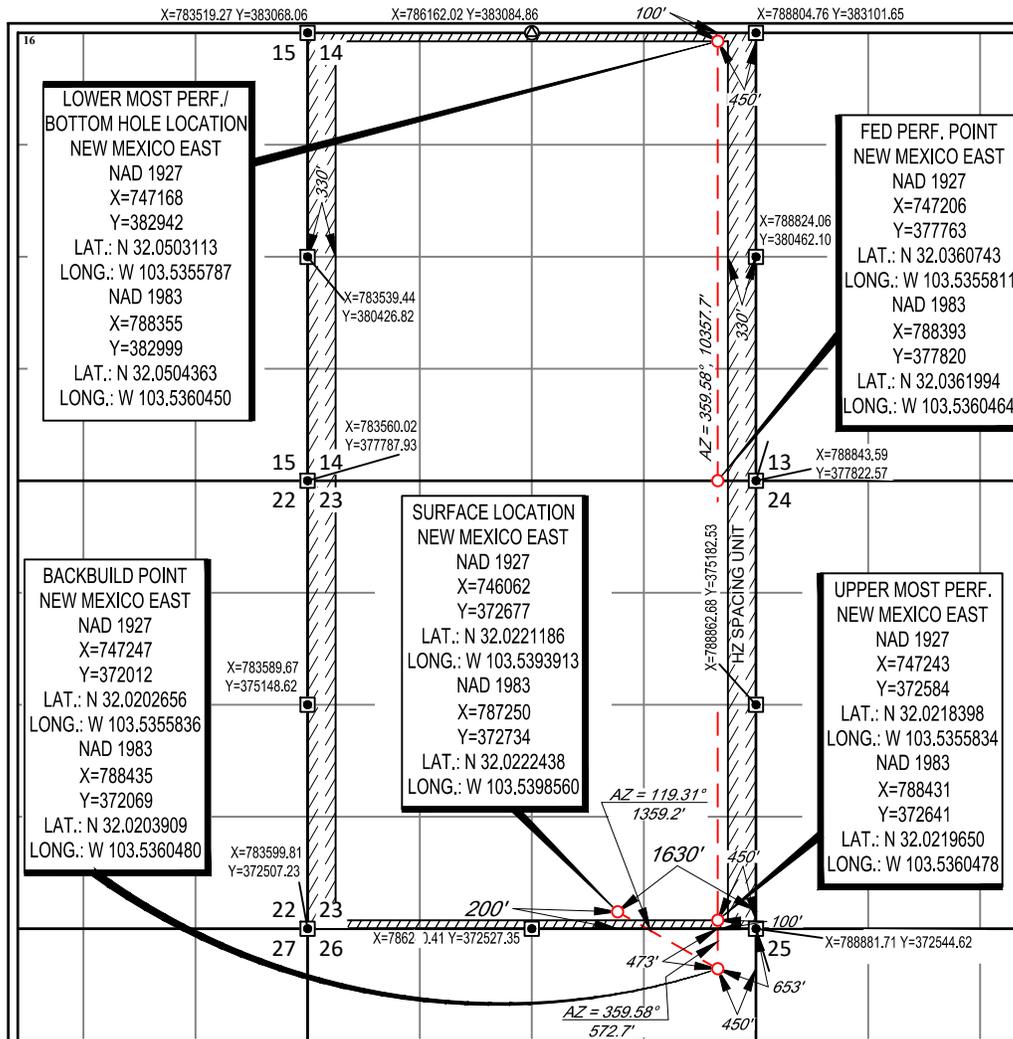
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	23	26-S	33-E	-	200'	SOUTH	1630'	EAST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	14	26-S	33-E	-	100'	NORTH	450'	EAST	LEA

¹² Dedicated Acres 1280	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



¹⁷OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Star L Harrell 3/11/2021
Signature Date

Star L Harrell
Printed Name

star_harrell@eogresources.com
E-mail Address

¹⁸SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

09/30/2019
Date of Survey

Ramon A. Dominguez
Signature and Seal of Professional Surveyor

PROFESSIONAL SURVEYOR
NEW MEXICO
24508

Certificate Number

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	EOG RESOURCES, INC.
LEASE NO.:	NMNM122622
LOCATION:	Section 23, T.26 S., R.33 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	DOGWOOD 23 FED COM 741H
SURFACE HOLE FOOTAGE:	200'/N & 1630'/E
BOTTOM HOLE FOOTAGE:	100'/N & 450'/E

COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input checked="" type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

All previous COAs still apply, except for the following:

A. CASING

1. The **9-5/8** inch surface casing shall be set at approximately **1,045** feet (a minimum of **25 feet (Lea County)**) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The 7-5/8 inch surface casing shall be set at approximately **11,600** feet. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage.

First Stage

- Operator will cement to reach the top of Brushy Canyon.

Second Stage

- Operator will perform bradenhead squeeze. Cement to surface. If cement does not circulate see B.1.a, c-d above.

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus. Operator must run Echo-meter to verify fluid top and the volume of displacement fluid above the cement slurry in the annulus.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

B. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.

- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

C. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

JJP03192021

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
 (575) 361-2822

Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
 393-3612

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

- a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours.

WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. 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. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

Revised Permit Information 2/25/2021:

Well Name: Dogwood 23 Fed Com #741H

Location:

SHL: 200' FSL & 1630' FEL, Section 23, T-26-S, R-33-E, Lea Co., N.M.

BHL: 100' FNL & 450' FEL, Section 14, T-26-S, R-33-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
12.25"	0' – 1,050'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0' – 11,380'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0' – 10,880'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75"	10,880' – 11,380'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60
6.75"	11,380' – 23,824'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60

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 5-1/2" 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 5-1/2" 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:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /sk	Slurry Description
1,050' 9-5/8"	300	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 0.25 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 @ 850')
11,380' 7-5/8"	400	14.2	1.11	1 st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 8,009')
	1,350	14.8	1.5	2 nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
23,824' 5-1/2"	1100	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,880')

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:

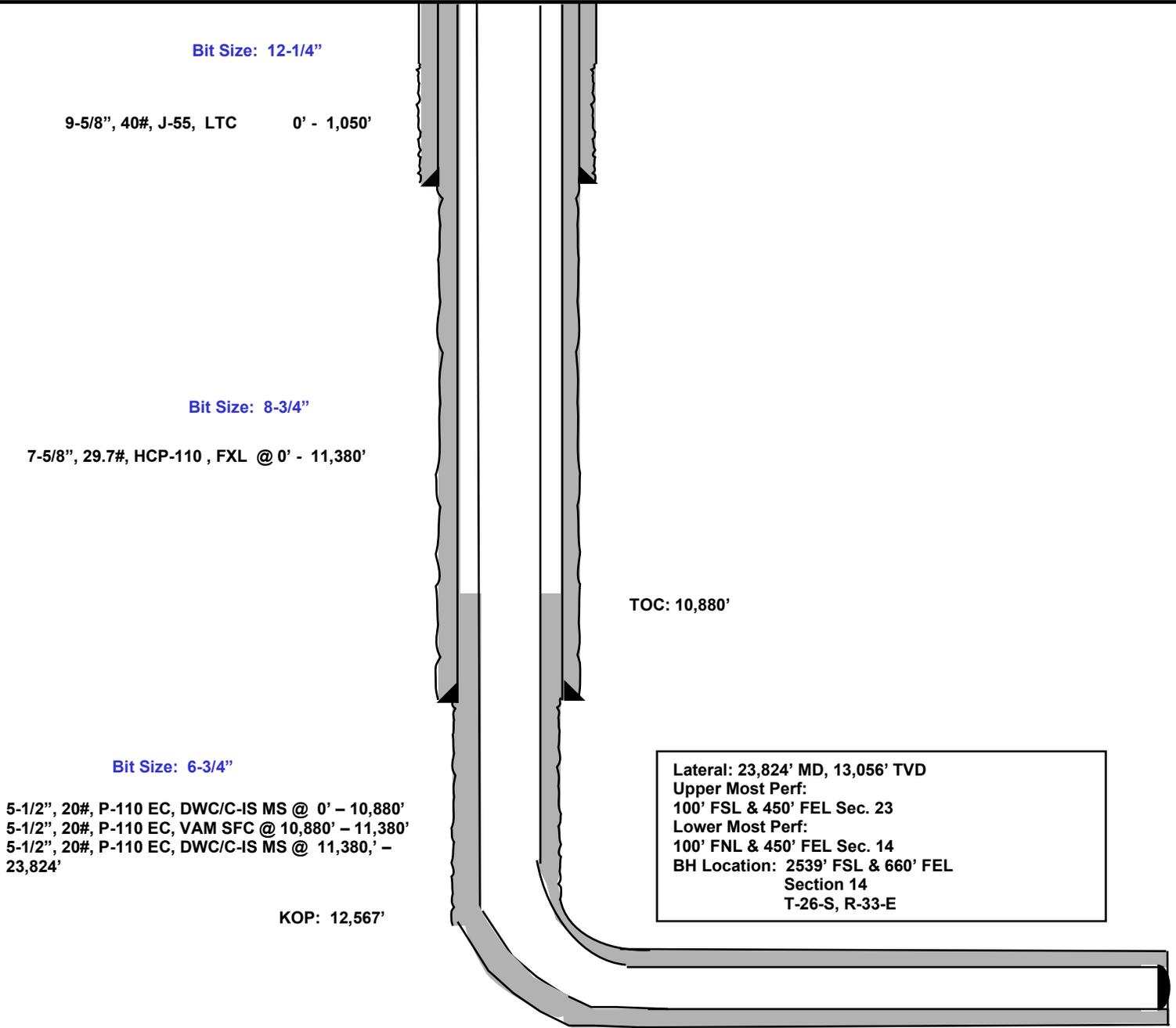
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,050'	Fresh - Gel	8.6-8.8	28-34	N/c
1,050' – 11,380'	Brine	10.0-10.2	28-34	N/c
11,380' – 12,567'	Oil Base	8.7-9.4	58-68	N/c - 6
12,567' – 23,824' Lateral	Oil Base	10.0-14.0	58-68	3 - 6

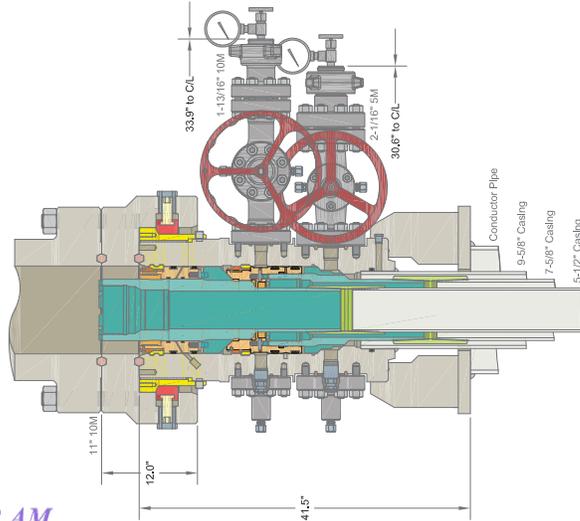
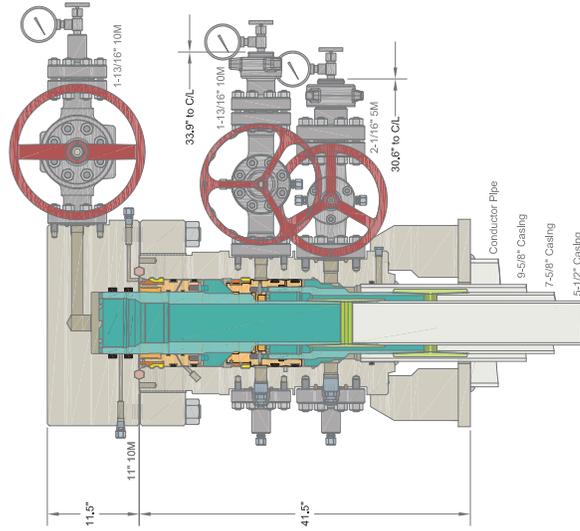
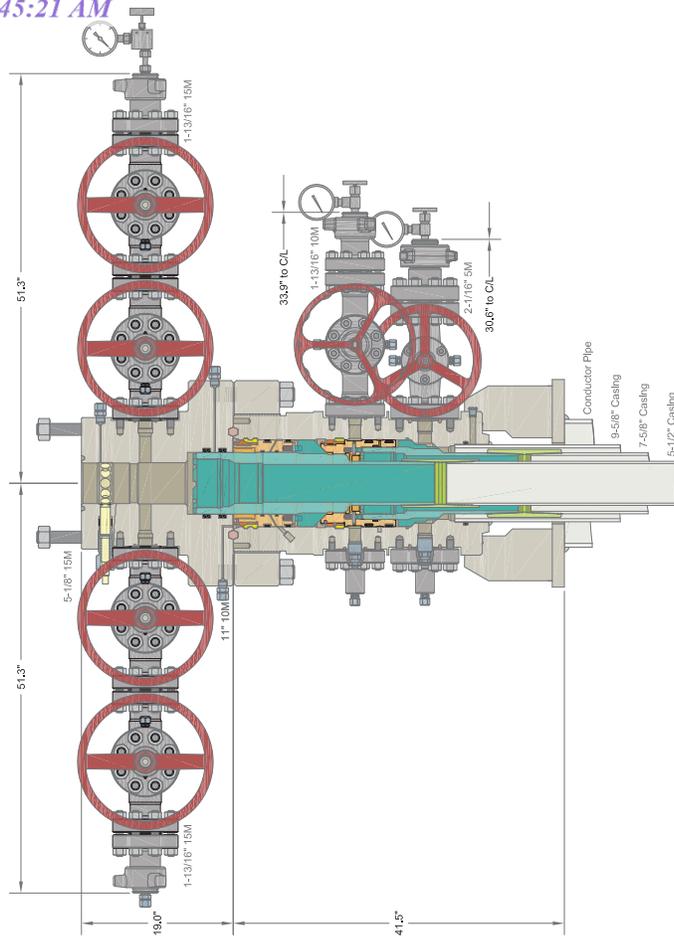
Variance is requested to use a 5,000 psi annular BOP with the 10,000 psi BOP stack.

200' FSL
1630' FEL
Section 23
T-26-S, R-33-E

Revised Wellbore
API: 30-025-44095

KB: 3,343'
GL: 3,318'





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ALL DIMENSIONS APPROXIMATE

**EOG RESOURCES
DELAWARE**

DRAWN	DLE	23OCT18
APPRV		
DRAWING NO.	HBE0000010	

CACTUS WELLHEAD LLC

20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-SF SOW Wellhead System
With 11" 10M x 5-1/8" 15M CMT-DBLHPS-SB Tubing Head,
Mandrel Hangers, Quick Connect Drilling Adapter And TA Cap

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

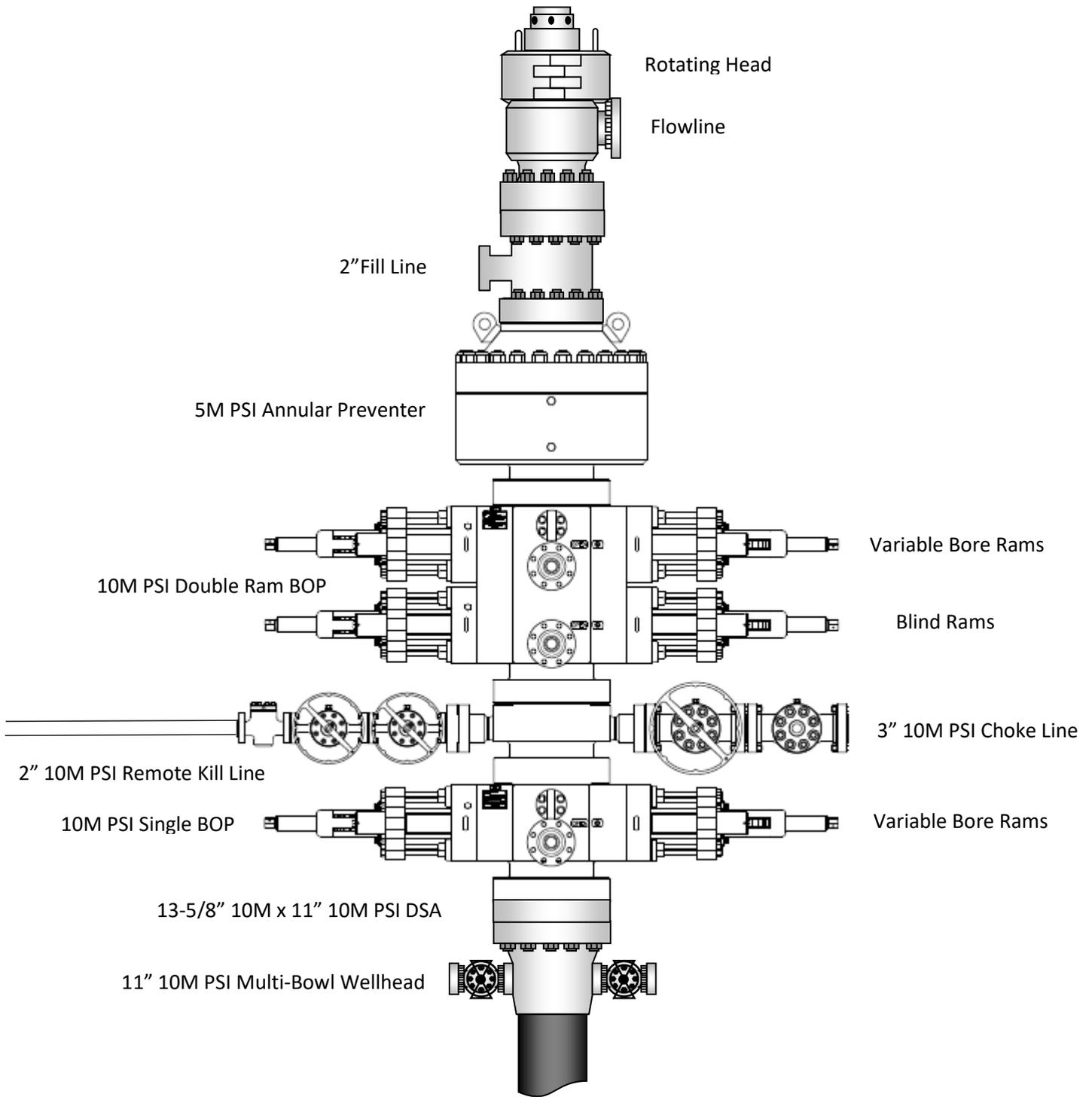
The tables below outlines the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

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 Lower 3.5 - 5.5" VBR	10M 10M
HWDP	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Jars	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 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 Lower 3.5 - 5.5" VBR	10M 10M
HWDP	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
DCs and MWD tools	4.750 – 5.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Mud Motor	4.750 – 5.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Mud Motor	5.500 – 5.750"	Annular	5M	-	-
Production casing	5.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 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

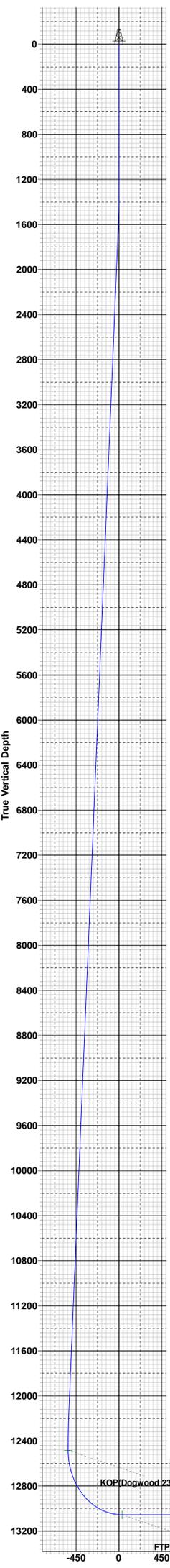
General Procedures While Pulling BHA thru Stack

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



Lea County, NM (NAD 83 NME)
 Dogwood 23 Fed Com #741H
 Plan #0.3



Azimuths to Grid North
 True North: -0.42°
 Magnetic North: 6.54°

Magnetic Field
 Strength: 47856.2nT
 Dip Angle: 59.89°
 Date: 2/16/2017
 Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.54°
 To convert a Magnetic Direction to a True Direction, Add 6.96° East
 To convert a True Direction to a Grid Direction, Subtract 0.42°

PROJECT DETAILS: Lea County, NM (NAD 83 NME)
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level

WELL DETAILS: #741H

Ground Level: 3318.0
 KB = 25' @ 3343.0usft

Northing	Easting	Latitude	Longitude
372734.00	787250.00	32° 1' 20.077 N	103° 32' 23.482 W

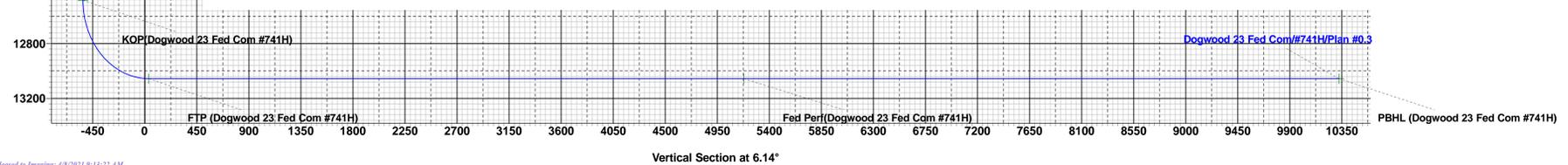
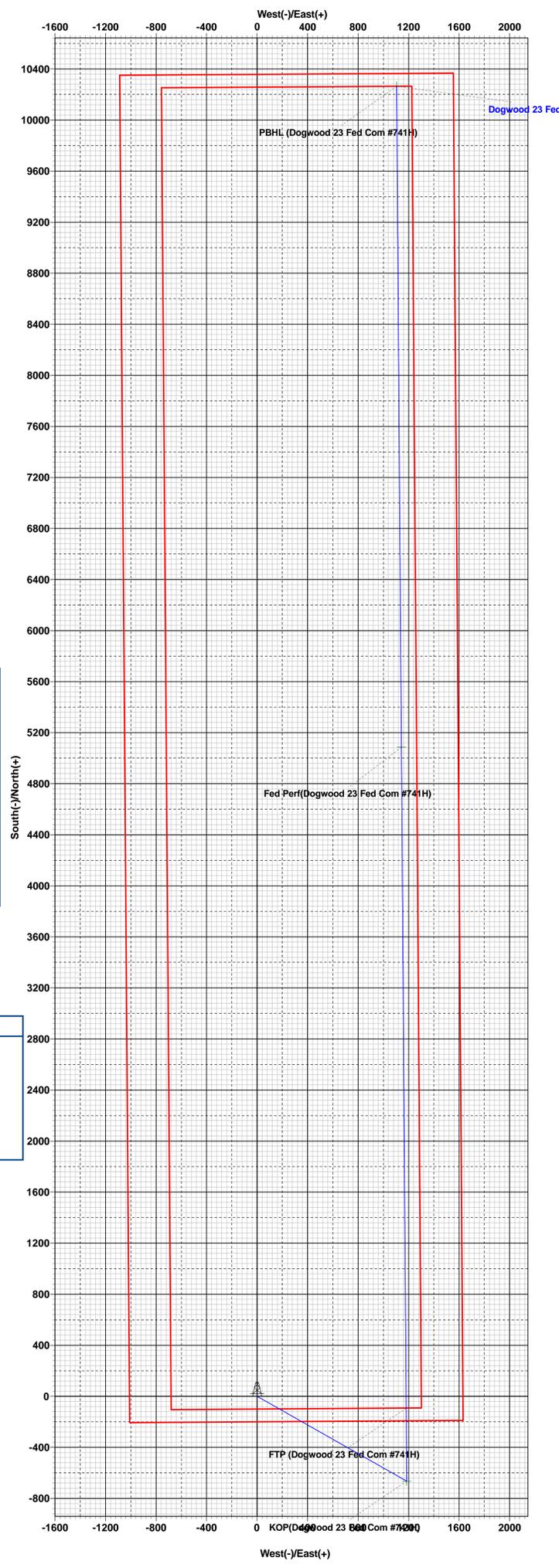
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1300.0	0.00	0.00	1300.0	0.0	0.0	0.00	0.00	0.0	
3	1657.7	7.15	119.30	1656.8	-10.9	19.5	2.00	119.30	-8.8	
4	12209.3	7.15	119.30	12126.2	-654.1	1165.5	0.00	0.00	-525.6	
5	12567.0	0.00	0.00	12483.0	-665.0	1185.0	2.00	180.00	-534.4	KOP(Dogwood 23 Fed Com #741H)
6	13459.1	89.20	359.60	13055.9	-100.0	1181.0	10.00	359.60	27.0	FTP (Dogwood 23 Fed Com #741H)
7	13466.1	89.20	359.60	13056.0	-93.0	1181.0	0.00	0.00	33.9	
8	13506.1	90.00	359.58	13056.3	-53.0	1180.7	2.00	-1.42	73.6	
9	18645.2	90.00	359.58	13056.0	5086.0	1143.0	0.00	0.00	5179.1	Fed Perf(Dogwood 23 Fed Com #741H)
10	23824.4	90.00	359.58	13056.0	10265.0	1105.0	0.00	178.58	10324.3	PBHL (Dogwood 23 Fed Com #741H)

CASING DETAILS
 No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Dogwood 23 Fed Com #741H)	12483.0	-665.0	1185.0	372069.00	788435.00
FTP (Dogwood 23 Fed Com #741H)	13056.0	-93.0	1181.0	372641.00	788431.00
Fed Perf(Dogwood 23 Fed Com #741H)	13056.0	5086.0	1143.0	377820.00	788393.00
PBHL (Dogwood 23 Fed Com #741H)	13056.0	10265.0	1105.0	382999.00	788355.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Dogwood 23 Fed Com

#741H

OH

Plan: Plan #0.3

Standard Planning Report

03 March, 2021



EOG Resources
Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well #741H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3343.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3343.0usft
Site:	Dogwood 23 Fed Com	North Reference:	Grid
Well:	#741H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.3		

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Dogwood 23 Fed Com				
Site Position:		Northing:	372,741.00 usft	Latitude:	32° 1' 20.069 N
From:	Map	Easting:	788,311.00 usft	Longitude:	103° 32' 11.158 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.42 °

Well	#741H					
Well Position	+N/-S	-7.0 usft	Northing:	372,734.00 usft	Latitude:	32° 1' 20.077 N
	+E/-W	-1,061.0 usft	Easting:	787,250.00 usft	Longitude:	103° 32' 23.482 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,318.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/16/2017	6.96	59.89	47,856.19152376

Design	Plan #0.3			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	6.14

Plan Survey Tool Program	Date	3/3/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	23,824.4 Plan #0.3 (OH)	MWD	
			OWSG MWD - Standard	



EOG Resources
Planning Report

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Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3343.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3343.0usft
Site:	Dogwood 23 Fed Com	North Reference:	Grid
Well:	#741H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.3		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,657.7	7.15	119.30	1,656.8	-10.9	19.5	2.00	2.00	0.00	119.30	
12,209.3	7.15	119.30	12,126.2	-654.1	1,165.5	0.00	0.00	0.00	0.00	
12,567.0	0.00	0.01	12,483.0	-665.0	1,185.0	2.00	-2.00	0.00	180.00	KOP(Dogwood 23 Fe
13,459.1	89.20	359.60	13,055.9	-100.0	1,181.0	10.00	10.00	-0.05	359.60	
13,466.1	89.20	359.60	13,056.0	-93.0	1,181.0	0.00	0.00	0.00	0.00	FTP (Dogwood 23 Fe
13,506.1	90.00	359.58	13,056.3	-53.0	1,180.7	2.00	2.00	-0.05	-1.42	
18,645.2	90.00	359.58	13,056.0	5,086.0	1,143.0	0.00	0.00	0.00	0.00	Fed Perf(Dogwood 23
23,824.4	90.00	359.58	13,056.0	10,265.0	1,105.0	0.00	0.00	0.00	178.58	PBHL (Dogwood 23 F



EOG Resources
Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well #741H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3343.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3343.0usft
Site:	Dogwood 23 Fed Com	North Reference:	Grid
Well:	#741H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	2.00	119.30	1,400.0	-0.9	1.5	-0.7	2.00	2.00	0.00
1,500.0	4.00	119.30	1,499.8	-3.4	6.1	-2.7	2.00	2.00	0.00
1,600.0	6.00	119.30	1,599.5	-7.7	13.7	-6.2	2.00	2.00	0.00
1,657.7	7.15	119.30	1,656.8	-10.9	19.5	-8.8	2.00	2.00	0.00
1,700.0	7.15	119.30	1,698.7	-13.5	24.0	-10.8	0.00	0.00	0.00
1,800.0	7.15	119.30	1,798.0	-19.6	34.9	-15.7	0.00	0.00	0.00
1,900.0	7.15	119.30	1,897.2	-25.7	45.8	-20.6	0.00	0.00	0.00
2,000.0	7.15	119.30	1,996.4	-31.8	56.6	-25.5	0.00	0.00	0.00
2,100.0	7.15	119.30	2,095.6	-37.9	67.5	-30.4	0.00	0.00	0.00
2,200.0	7.15	119.30	2,194.8	-44.0	78.4	-35.3	0.00	0.00	0.00
2,300.0	7.15	119.30	2,294.1	-50.1	89.2	-40.2	0.00	0.00	0.00
2,400.0	7.15	119.30	2,393.3	-56.2	100.1	-45.1	0.00	0.00	0.00
2,500.0	7.15	119.30	2,492.5	-62.3	110.9	-50.0	0.00	0.00	0.00
2,600.0	7.15	119.30	2,591.7	-68.4	121.8	-54.9	0.00	0.00	0.00
2,700.0	7.15	119.30	2,691.0	-74.4	132.7	-59.8	0.00	0.00	0.00
2,800.0	7.15	119.30	2,790.2	-80.5	143.5	-64.7	0.00	0.00	0.00
2,900.0	7.15	119.30	2,889.4	-86.6	154.4	-69.6	0.00	0.00	0.00
3,000.0	7.15	119.30	2,988.6	-92.7	165.2	-74.5	0.00	0.00	0.00
3,100.0	7.15	119.30	3,087.8	-98.8	176.1	-79.4	0.00	0.00	0.00
3,200.0	7.15	119.30	3,187.1	-104.9	187.0	-84.3	0.00	0.00	0.00
3,300.0	7.15	119.30	3,286.3	-111.0	197.8	-89.2	0.00	0.00	0.00
3,400.0	7.15	119.30	3,385.5	-117.1	208.7	-94.1	0.00	0.00	0.00
3,500.0	7.15	119.30	3,484.7	-123.2	219.6	-99.0	0.00	0.00	0.00
3,600.0	7.15	119.30	3,583.9	-129.3	230.4	-103.9	0.00	0.00	0.00
3,700.0	7.15	119.30	3,683.2	-135.4	241.3	-108.8	0.00	0.00	0.00
3,800.0	7.15	119.30	3,782.4	-141.5	252.1	-113.7	0.00	0.00	0.00
3,900.0	7.15	119.30	3,881.6	-147.6	263.0	-118.6	0.00	0.00	0.00
4,000.0	7.15	119.30	3,980.8	-153.7	273.9	-123.5	0.00	0.00	0.00
4,100.0	7.15	119.30	4,080.1	-159.8	284.7	-128.4	0.00	0.00	0.00
4,200.0	7.15	119.30	4,179.3	-165.9	295.6	-133.3	0.00	0.00	0.00
4,300.0	7.15	119.30	4,278.5	-172.0	306.5	-138.2	0.00	0.00	0.00
4,400.0	7.15	119.30	4,377.7	-178.1	317.3	-143.1	0.00	0.00	0.00
4,500.0	7.15	119.30	4,476.9	-184.2	328.2	-148.0	0.00	0.00	0.00
4,600.0	7.15	119.30	4,576.2	-190.3	339.0	-152.9	0.00	0.00	0.00
4,700.0	7.15	119.30	4,675.4	-196.4	349.9	-157.8	0.00	0.00	0.00
4,800.0	7.15	119.30	4,774.6	-202.5	360.8	-162.7	0.00	0.00	0.00
4,900.0	7.15	119.30	4,873.8	-208.5	371.6	-167.6	0.00	0.00	0.00
5,000.0	7.15	119.30	4,973.0	-214.6	382.5	-172.5	0.00	0.00	0.00
5,100.0	7.15	119.30	5,072.3	-220.7	393.3	-177.4	0.00	0.00	0.00
5,200.0	7.15	119.30	5,171.5	-226.8	404.2	-182.3	0.00	0.00	0.00



EOG Resources
Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well #741H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3343.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3343.0usft
Site:	Dogwood 23 Fed Com	North Reference:	Grid
Well:	#741H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.3		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,300.0	7.15	119.30	5,270.7	-232.9	415.1	-187.2	0.00	0.00	0.00	
5,400.0	7.15	119.30	5,369.9	-239.0	425.9	-192.1	0.00	0.00	0.00	
5,500.0	7.15	119.30	5,469.2	-245.1	436.8	-197.0	0.00	0.00	0.00	
5,600.0	7.15	119.30	5,568.4	-251.2	447.7	-201.9	0.00	0.00	0.00	
5,700.0	7.15	119.30	5,667.6	-257.3	458.5	-206.8	0.00	0.00	0.00	
5,800.0	7.15	119.30	5,766.8	-263.4	469.4	-211.7	0.00	0.00	0.00	
5,900.0	7.15	119.30	5,866.0	-269.5	480.2	-216.6	0.00	0.00	0.00	
6,000.0	7.15	119.30	5,965.3	-275.6	491.1	-221.5	0.00	0.00	0.00	
6,100.0	7.15	119.30	6,064.5	-281.7	502.0	-226.4	0.00	0.00	0.00	
6,200.0	7.15	119.30	6,163.7	-287.8	512.8	-231.2	0.00	0.00	0.00	
6,300.0	7.15	119.30	6,262.9	-293.9	523.7	-236.1	0.00	0.00	0.00	
6,400.0	7.15	119.30	6,362.1	-300.0	534.6	-241.0	0.00	0.00	0.00	
6,500.0	7.15	119.30	6,461.4	-306.1	545.4	-245.9	0.00	0.00	0.00	
6,600.0	7.15	119.30	6,560.6	-312.2	556.3	-250.8	0.00	0.00	0.00	
6,700.0	7.15	119.30	6,659.8	-318.3	567.1	-255.7	0.00	0.00	0.00	
6,800.0	7.15	119.30	6,759.0	-324.4	578.0	-260.6	0.00	0.00	0.00	
6,900.0	7.15	119.30	6,858.2	-330.5	588.9	-265.5	0.00	0.00	0.00	
7,000.0	7.15	119.30	6,957.5	-336.6	599.7	-270.4	0.00	0.00	0.00	
7,100.0	7.15	119.30	7,056.7	-342.6	610.6	-275.3	0.00	0.00	0.00	
7,200.0	7.15	119.30	7,155.9	-348.7	621.4	-280.2	0.00	0.00	0.00	
7,300.0	7.15	119.30	7,255.1	-354.8	632.3	-285.1	0.00	0.00	0.00	
7,400.0	7.15	119.30	7,354.4	-360.9	643.2	-290.0	0.00	0.00	0.00	
7,500.0	7.15	119.30	7,453.6	-367.0	654.0	-294.9	0.00	0.00	0.00	
7,600.0	7.15	119.30	7,552.8	-373.1	664.9	-299.8	0.00	0.00	0.00	
7,700.0	7.15	119.30	7,652.0	-379.2	675.8	-304.7	0.00	0.00	0.00	
7,800.0	7.15	119.30	7,751.2	-385.3	686.6	-309.6	0.00	0.00	0.00	
7,900.0	7.15	119.30	7,850.5	-391.4	697.5	-314.5	0.00	0.00	0.00	
8,000.0	7.15	119.30	7,949.7	-397.5	708.3	-319.4	0.00	0.00	0.00	
8,100.0	7.15	119.30	8,048.9	-403.6	719.2	-324.3	0.00	0.00	0.00	
8,200.0	7.15	119.30	8,148.1	-409.7	730.1	-329.2	0.00	0.00	0.00	
8,300.0	7.15	119.30	8,247.3	-415.8	740.9	-334.1	0.00	0.00	0.00	
8,400.0	7.15	119.30	8,346.6	-421.9	751.8	-339.0	0.00	0.00	0.00	
8,500.0	7.15	119.30	8,445.8	-428.0	762.6	-343.9	0.00	0.00	0.00	
8,600.0	7.15	119.30	8,545.0	-434.1	773.5	-348.8	0.00	0.00	0.00	
8,700.0	7.15	119.30	8,644.2	-440.2	784.4	-353.7	0.00	0.00	0.00	
8,800.0	7.15	119.30	8,743.5	-446.3	795.2	-358.6	0.00	0.00	0.00	
8,900.0	7.15	119.30	8,842.7	-452.4	806.1	-363.5	0.00	0.00	0.00	
9,000.0	7.15	119.30	8,941.9	-458.5	817.0	-368.4	0.00	0.00	0.00	
9,100.0	7.15	119.30	9,041.1	-464.6	827.8	-373.3	0.00	0.00	0.00	
9,200.0	7.15	119.30	9,140.3	-470.7	838.7	-378.2	0.00	0.00	0.00	
9,300.0	7.15	119.30	9,239.6	-476.7	849.5	-383.1	0.00	0.00	0.00	
9,400.0	7.15	119.30	9,338.8	-482.8	860.4	-388.0	0.00	0.00	0.00	
9,500.0	7.15	119.30	9,438.0	-488.9	871.3	-392.9	0.00	0.00	0.00	
9,600.0	7.15	119.30	9,537.2	-495.0	882.1	-397.8	0.00	0.00	0.00	
9,700.0	7.15	119.30	9,636.4	-501.1	893.0	-402.7	0.00	0.00	0.00	
9,800.0	7.15	119.30	9,735.7	-507.2	903.9	-407.6	0.00	0.00	0.00	
9,900.0	7.15	119.30	9,834.9	-513.3	914.7	-412.5	0.00	0.00	0.00	
10,000.0	7.15	119.30	9,934.1	-519.4	925.6	-417.4	0.00	0.00	0.00	
10,100.0	7.15	119.30	10,033.3	-525.5	936.4	-422.3	0.00	0.00	0.00	
10,200.0	7.15	119.30	10,132.6	-531.6	947.3	-427.2	0.00	0.00	0.00	
10,300.0	7.15	119.30	10,231.8	-537.7	958.2	-432.1	0.00	0.00	0.00	
10,400.0	7.15	119.30	10,331.0	-543.8	969.0	-437.0	0.00	0.00	0.00	
10,500.0	7.15	119.30	10,430.2	-549.9	979.9	-441.9	0.00	0.00	0.00	
10,600.0	7.15	119.30	10,529.4	-556.0	990.7	-446.8	0.00	0.00	0.00	



EOG Resources
Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well #741H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3343.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3343.0usft
Site:	Dogwood 23 Fed Com	North Reference:	Grid
Well:	#741H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,700.0	7.15	119.30	10,628.7	-562.1	1,001.6	-451.7	0.00	0.00	0.00
10,800.0	7.15	119.30	10,727.9	-568.2	1,012.5	-456.6	0.00	0.00	0.00
10,900.0	7.15	119.30	10,827.1	-574.3	1,023.3	-461.5	0.00	0.00	0.00
11,000.0	7.15	119.30	10,926.3	-580.4	1,034.2	-466.3	0.00	0.00	0.00
11,100.0	7.15	119.30	11,025.5	-586.5	1,045.1	-471.2	0.00	0.00	0.00
11,200.0	7.15	119.30	11,124.8	-592.6	1,055.9	-476.1	0.00	0.00	0.00
11,300.0	7.15	119.30	11,224.0	-598.7	1,066.8	-481.0	0.00	0.00	0.00
11,400.0	7.15	119.30	11,323.2	-604.8	1,077.6	-485.9	0.00	0.00	0.00
11,500.0	7.15	119.30	11,422.4	-610.8	1,088.5	-490.8	0.00	0.00	0.00
11,600.0	7.15	119.30	11,521.6	-616.9	1,099.4	-495.7	0.00	0.00	0.00
11,700.0	7.15	119.30	11,620.9	-623.0	1,110.2	-500.6	0.00	0.00	0.00
11,800.0	7.15	119.30	11,720.1	-629.1	1,121.1	-505.5	0.00	0.00	0.00
11,900.0	7.15	119.30	11,819.3	-635.2	1,132.0	-510.4	0.00	0.00	0.00
12,000.0	7.15	119.30	11,918.5	-641.3	1,142.8	-515.3	0.00	0.00	0.00
12,100.0	7.15	119.30	12,017.8	-647.4	1,153.7	-520.2	0.00	0.00	0.00
12,209.3	7.15	119.30	12,126.2	-654.1	1,165.5	-525.6	0.00	0.00	0.00
12,300.0	5.34	119.30	12,216.4	-658.9	1,174.2	-529.5	2.00	-2.00	0.00
12,400.0	3.34	119.30	12,316.1	-662.6	1,180.8	-532.4	2.00	-2.00	0.00
12,500.0	1.34	119.30	12,416.0	-664.6	1,184.3	-534.0	2.00	-2.00	0.00
12,567.0	0.00	0.01	12,483.0	-665.0	1,185.0	-534.4	2.00	-2.00	0.00
12,600.0	3.30	359.60	12,516.0	-664.1	1,185.0	-533.4	10.00	10.00	0.00
12,650.0	8.30	359.60	12,565.7	-659.0	1,185.0	-528.4	10.00	10.00	0.00
12,700.0	13.30	359.60	12,614.8	-649.6	1,184.9	-519.1	10.00	10.00	0.00
12,750.0	18.30	359.60	12,662.9	-636.0	1,184.8	-505.6	10.00	10.00	0.00
12,800.0	23.30	359.60	12,709.6	-618.3	1,184.7	-487.9	10.00	10.00	0.00
12,850.0	28.30	359.60	12,754.6	-596.5	1,184.5	-466.3	10.00	10.00	0.00
12,900.0	33.30	359.60	12,797.5	-570.9	1,184.3	-440.9	10.00	10.00	0.00
12,950.0	38.30	359.60	12,838.1	-541.7	1,184.1	-411.9	10.00	10.00	0.00
13,000.0	43.30	359.60	12,875.9	-509.0	1,183.9	-379.4	10.00	10.00	0.00
13,050.0	48.30	359.60	12,910.8	-473.2	1,183.7	-343.8	10.00	10.00	0.00
13,100.0	53.30	359.60	12,942.4	-434.5	1,183.4	-305.3	10.00	10.00	0.00
13,150.0	58.30	359.60	12,970.5	-393.1	1,183.1	-264.3	10.00	10.00	0.00
13,200.0	63.30	359.60	12,994.9	-349.5	1,182.8	-220.9	10.00	10.00	0.00
13,250.0	68.30	359.60	13,015.3	-303.9	1,182.5	-175.6	10.00	10.00	0.00
13,300.0	73.30	359.60	13,031.8	-256.7	1,182.1	-128.7	10.00	10.00	0.00
13,350.0	78.30	359.60	13,044.0	-208.3	1,181.8	-80.6	10.00	10.00	0.00
13,400.0	83.30	359.60	13,052.0	-158.9	1,181.5	-31.6	10.00	10.00	0.00
13,450.0	88.30	359.60	13,055.7	-109.1	1,181.1	18.0	10.00	10.00	0.00
13,459.1	89.20	359.60	13,055.9	-100.0	1,181.0	27.0	10.00	10.00	0.00
13,466.1	89.20	359.60	13,056.0	-93.0	1,181.0	33.9	0.00	0.00	0.00
13,506.1	90.00	359.58	13,056.3	-53.0	1,180.7	73.6	2.00	2.00	-0.05
13,600.0	90.00	359.58	13,056.3	40.9	1,180.0	167.0	0.00	0.00	0.00
13,700.0	90.00	359.58	13,056.3	140.9	1,179.3	266.3	0.00	0.00	0.00
13,800.0	90.00	359.58	13,056.3	240.9	1,178.6	365.7	0.00	0.00	0.00
13,900.0	90.00	359.58	13,056.3	340.9	1,177.8	465.0	0.00	0.00	0.00
14,000.0	90.00	359.58	13,056.2	440.9	1,177.1	564.4	0.00	0.00	0.00
14,100.0	90.00	359.58	13,056.2	540.9	1,176.4	663.7	0.00	0.00	0.00
14,200.0	90.00	359.58	13,056.2	640.9	1,175.6	763.0	0.00	0.00	0.00
14,300.0	90.00	359.58	13,056.2	740.9	1,174.9	862.4	0.00	0.00	0.00
14,400.0	90.00	359.58	13,056.2	840.9	1,174.2	961.7	0.00	0.00	0.00
14,500.0	90.00	359.58	13,056.2	940.9	1,173.4	1,061.1	0.00	0.00	0.00
14,600.0	90.00	359.58	13,056.2	1,040.9	1,172.7	1,160.4	0.00	0.00	0.00
14,700.0	90.00	359.58	13,056.2	1,140.9	1,172.0	1,259.8	0.00	0.00	0.00
14,800.0	90.00	359.58	13,056.2	1,240.9	1,171.2	1,359.1	0.00	0.00	0.00



EOG Resources
Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well #741H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3343.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3343.0usft
Site:	Dogwood 23 Fed Com	North Reference:	Grid
Well:	#741H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.3		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
14,900.0	90.00	359.58	13,056.2	1,340.9	1,170.5	1,458.5	0.00	0.00	0.00	
15,000.0	90.00	359.58	13,056.2	1,440.9	1,169.8	1,557.8	0.00	0.00	0.00	
15,100.0	90.00	359.58	13,056.2	1,540.9	1,169.0	1,657.1	0.00	0.00	0.00	
15,200.0	90.00	359.58	13,056.2	1,640.9	1,168.3	1,756.5	0.00	0.00	0.00	
15,300.0	90.00	359.58	13,056.2	1,740.9	1,167.5	1,855.8	0.00	0.00	0.00	
15,400.0	90.00	359.58	13,056.2	1,840.9	1,166.8	1,955.2	0.00	0.00	0.00	
15,500.0	90.00	359.58	13,056.2	1,940.9	1,166.1	2,054.5	0.00	0.00	0.00	
15,600.0	90.00	359.58	13,056.2	2,040.9	1,165.3	2,153.9	0.00	0.00	0.00	
15,700.0	90.00	359.58	13,056.2	2,140.9	1,164.6	2,253.2	0.00	0.00	0.00	
15,800.0	90.00	359.58	13,056.2	2,240.9	1,163.9	2,352.6	0.00	0.00	0.00	
15,900.0	90.00	359.58	13,056.1	2,340.9	1,163.1	2,451.9	0.00	0.00	0.00	
16,000.0	90.00	359.58	13,056.1	2,440.9	1,162.4	2,551.2	0.00	0.00	0.00	
16,100.0	90.00	359.58	13,056.1	2,540.8	1,161.7	2,650.6	0.00	0.00	0.00	
16,200.0	90.00	359.58	13,056.1	2,640.8	1,160.9	2,749.9	0.00	0.00	0.00	
16,300.0	90.00	359.58	13,056.1	2,740.8	1,160.2	2,849.3	0.00	0.00	0.00	
16,400.0	90.00	359.58	13,056.1	2,840.8	1,159.5	2,948.6	0.00	0.00	0.00	
16,500.0	90.00	359.58	13,056.1	2,940.8	1,158.7	3,048.0	0.00	0.00	0.00	
16,600.0	90.00	359.58	13,056.1	3,040.8	1,158.0	3,147.3	0.00	0.00	0.00	
16,700.0	90.00	359.58	13,056.1	3,140.8	1,157.3	3,246.7	0.00	0.00	0.00	
16,800.0	90.00	359.58	13,056.1	3,240.8	1,156.5	3,346.0	0.00	0.00	0.00	
16,900.0	90.00	359.58	13,056.1	3,340.8	1,155.8	3,445.3	0.00	0.00	0.00	
17,000.0	90.00	359.58	13,056.1	3,440.8	1,155.1	3,544.7	0.00	0.00	0.00	
17,100.0	90.00	359.58	13,056.1	3,540.8	1,154.3	3,644.0	0.00	0.00	0.00	
17,200.0	90.00	359.58	13,056.1	3,640.8	1,153.6	3,743.4	0.00	0.00	0.00	
17,300.0	90.00	359.58	13,056.1	3,740.8	1,152.9	3,842.7	0.00	0.00	0.00	
17,400.0	90.00	359.58	13,056.1	3,840.8	1,152.1	3,942.1	0.00	0.00	0.00	
17,500.0	90.00	359.58	13,056.1	3,940.8	1,151.4	4,041.4	0.00	0.00	0.00	
17,600.0	90.00	359.58	13,056.1	4,040.8	1,150.7	4,140.8	0.00	0.00	0.00	
17,700.0	90.00	359.58	13,056.1	4,140.8	1,149.9	4,240.1	0.00	0.00	0.00	
17,800.0	90.00	359.58	13,056.0	4,240.8	1,149.2	4,339.4	0.00	0.00	0.00	
17,900.0	90.00	359.58	13,056.0	4,340.8	1,148.5	4,438.8	0.00	0.00	0.00	
18,000.0	90.00	359.58	13,056.0	4,440.8	1,147.7	4,538.1	0.00	0.00	0.00	
18,100.0	90.00	359.58	13,056.0	4,540.8	1,147.0	4,637.5	0.00	0.00	0.00	
18,200.0	90.00	359.58	13,056.0	4,640.8	1,146.3	4,736.8	0.00	0.00	0.00	
18,300.0	90.00	359.58	13,056.0	4,740.8	1,145.5	4,836.2	0.00	0.00	0.00	
18,400.0	90.00	359.58	13,056.0	4,840.8	1,144.8	4,935.5	0.00	0.00	0.00	
18,500.0	90.00	359.58	13,056.0	4,940.8	1,144.1	5,034.9	0.00	0.00	0.00	
18,600.0	90.00	359.58	13,056.0	5,040.8	1,143.3	5,134.2	0.00	0.00	0.00	
18,645.2	90.00	359.58	13,056.0	5,086.0	1,143.0	5,179.1	0.00	0.00	0.00	
18,700.0	90.00	359.58	13,056.0	5,140.8	1,142.6	5,233.5	0.00	0.00	0.00	
18,800.0	90.00	359.58	13,056.0	5,240.8	1,141.9	5,332.9	0.00	0.00	0.00	
18,900.0	90.00	359.58	13,056.0	5,340.8	1,141.1	5,432.2	0.00	0.00	0.00	
19,000.0	90.00	359.58	13,056.0	5,440.8	1,140.4	5,531.6	0.00	0.00	0.00	
19,100.0	90.00	359.58	13,056.0	5,540.8	1,139.7	5,630.9	0.00	0.00	0.00	
19,200.0	90.00	359.58	13,056.0	5,640.8	1,138.9	5,730.3	0.00	0.00	0.00	
19,300.0	90.00	359.58	13,056.0	5,740.8	1,138.2	5,829.6	0.00	0.00	0.00	
19,400.0	90.00	359.58	13,056.0	5,840.8	1,137.5	5,929.0	0.00	0.00	0.00	
19,500.0	90.00	359.58	13,056.0	5,940.8	1,136.7	6,028.3	0.00	0.00	0.00	
19,600.0	90.00	359.58	13,056.0	6,040.8	1,136.0	6,127.6	0.00	0.00	0.00	
19,700.0	90.00	359.58	13,056.0	6,140.8	1,135.3	6,227.0	0.00	0.00	0.00	
19,800.0	90.00	359.58	13,056.0	6,240.7	1,134.5	6,326.3	0.00	0.00	0.00	
19,900.0	90.00	359.58	13,055.9	6,340.7	1,133.8	6,425.7	0.00	0.00	0.00	
20,000.0	90.00	359.58	13,055.9	6,440.7	1,133.1	6,525.0	0.00	0.00	0.00	
20,100.0	90.00	359.58	13,055.9	6,540.7	1,132.3	6,624.4	0.00	0.00	0.00	



EOG Resources
Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well #741H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3343.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3343.0usft
Site:	Dogwood 23 Fed Com	North Reference:	Grid
Well:	#741H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.3		

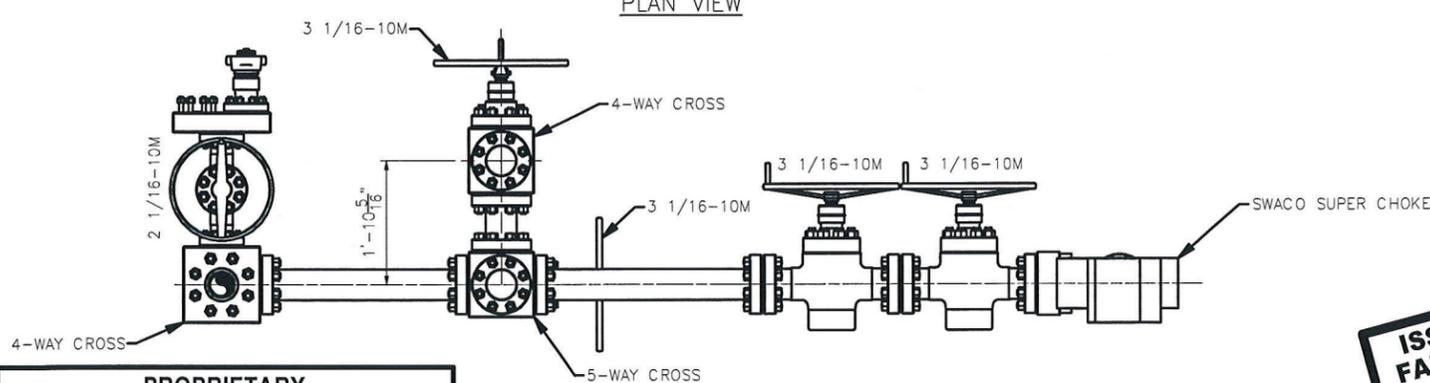
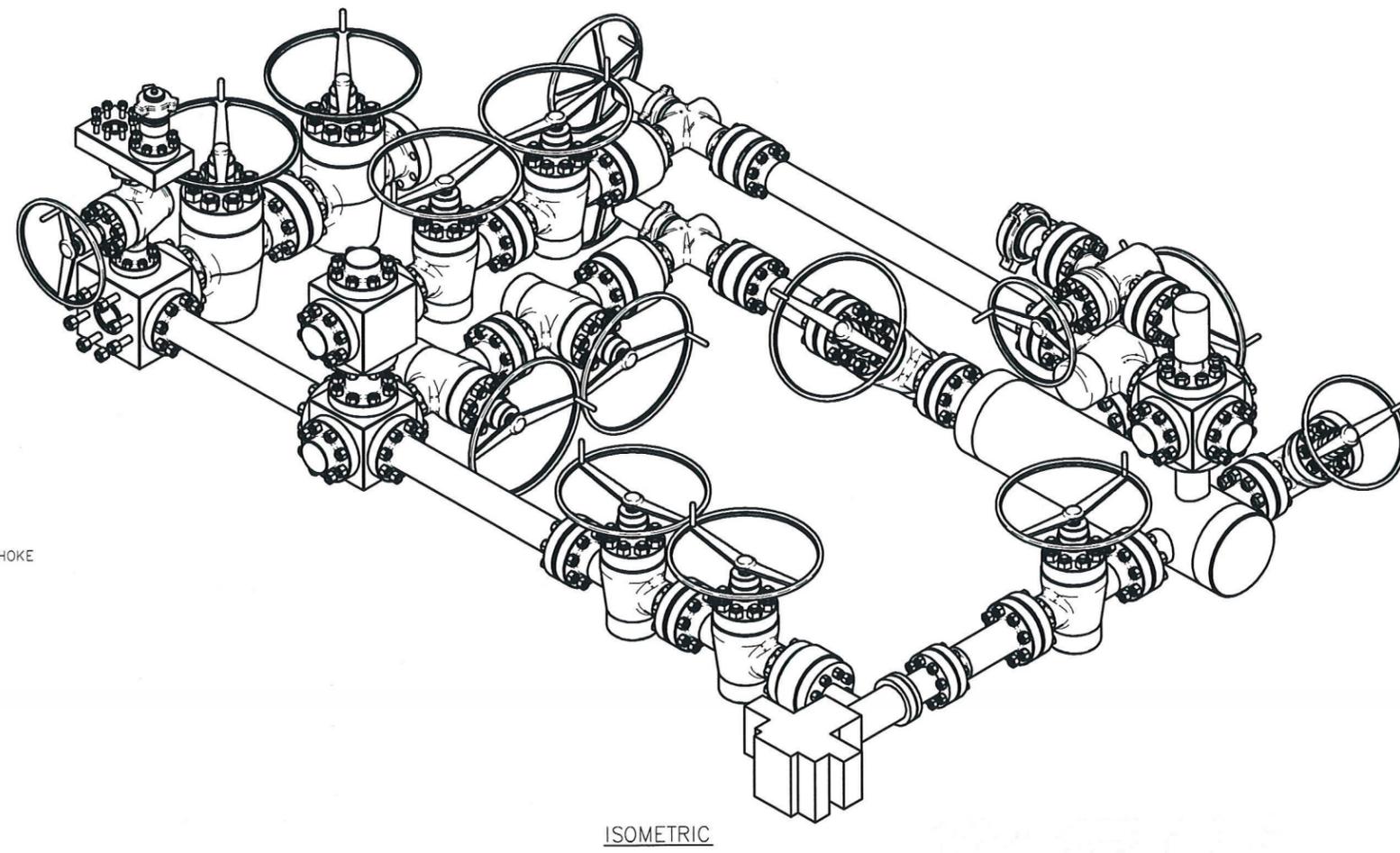
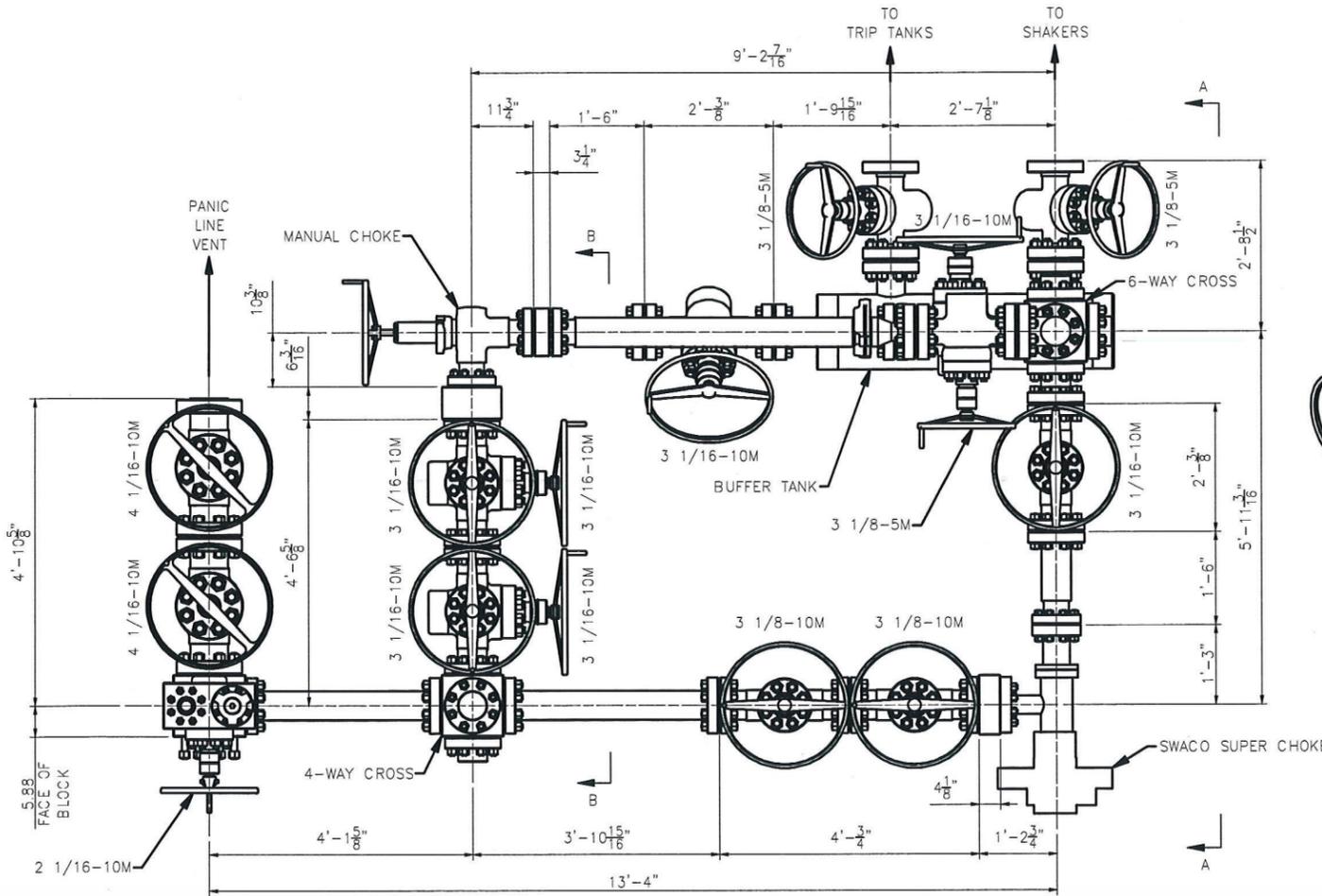
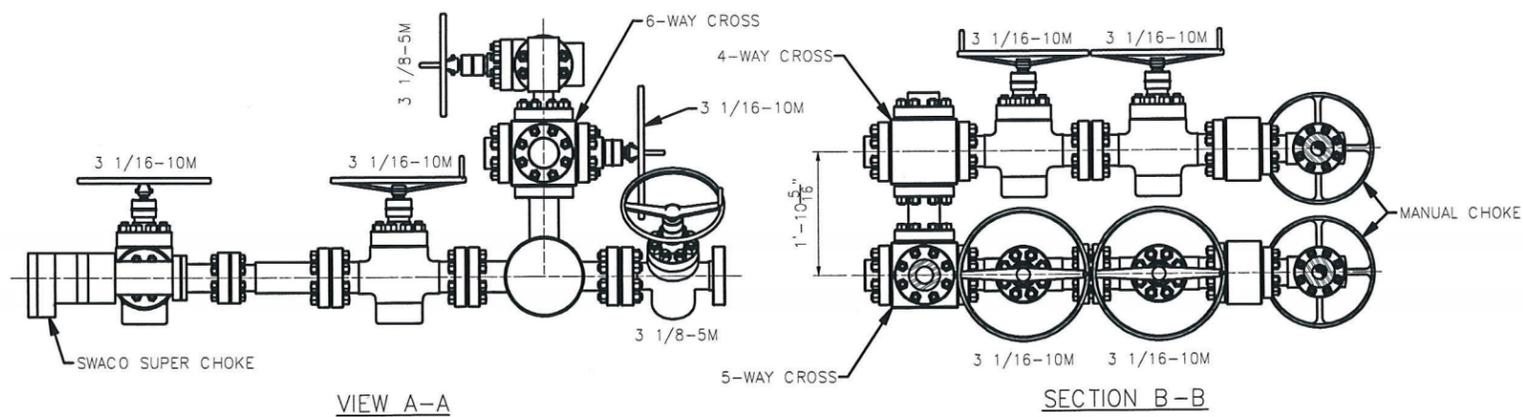
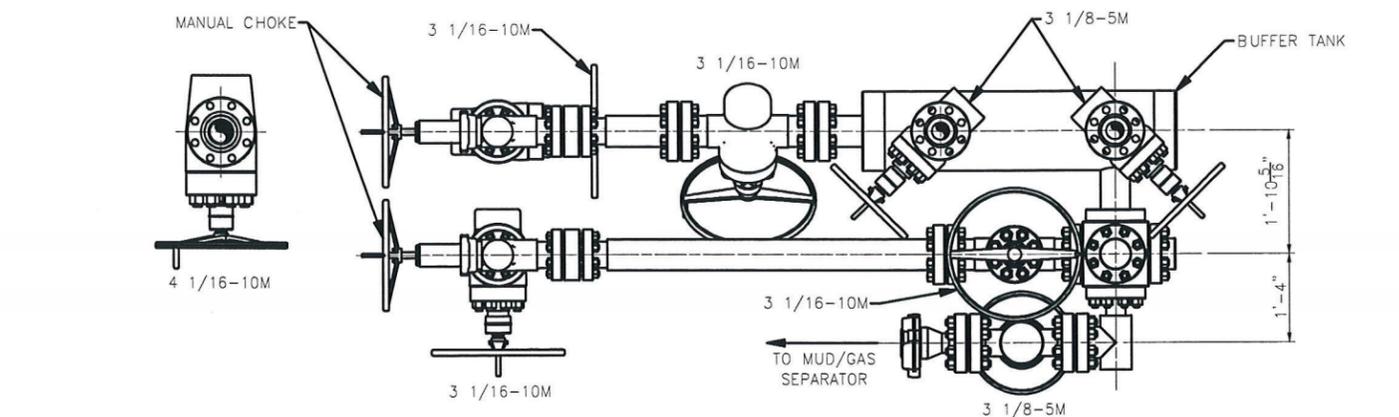
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
20,200.0	90.00	359.58	13,055.9	6,640.7	1,131.6	6,723.7	0.00	0.00	0.00	
20,300.0	90.00	359.58	13,055.9	6,740.7	1,130.9	6,823.0	0.00	0.00	0.00	
20,400.0	90.00	359.58	13,055.9	6,840.7	1,130.1	6,922.4	0.00	0.00	0.00	
20,500.0	90.00	359.58	13,055.9	6,940.7	1,129.4	7,021.7	0.00	0.00	0.00	
20,600.0	90.00	359.58	13,055.9	7,040.7	1,128.7	7,121.1	0.00	0.00	0.00	
20,700.0	90.00	359.58	13,055.9	7,140.7	1,127.9	7,220.4	0.00	0.00	0.00	
20,800.0	90.00	359.58	13,055.9	7,240.7	1,127.2	7,319.8	0.00	0.00	0.00	
20,900.0	90.00	359.58	13,055.9	7,340.7	1,126.5	7,419.1	0.00	0.00	0.00	
21,000.0	90.00	359.58	13,055.9	7,440.7	1,125.7	7,518.5	0.00	0.00	0.00	
21,100.0	90.00	359.58	13,055.9	7,540.7	1,125.0	7,617.8	0.00	0.00	0.00	
21,200.0	90.00	359.58	13,055.9	7,640.7	1,124.3	7,717.1	0.00	0.00	0.00	
21,300.0	90.00	359.58	13,055.9	7,740.7	1,123.5	7,816.5	0.00	0.00	0.00	
21,400.0	90.00	359.58	13,055.9	7,840.7	1,122.8	7,915.8	0.00	0.00	0.00	
21,500.0	90.00	359.58	13,055.9	7,940.7	1,122.1	8,015.2	0.00	0.00	0.00	
21,600.0	90.00	359.58	13,055.9	8,040.7	1,121.3	8,114.5	0.00	0.00	0.00	
21,700.0	90.00	359.58	13,055.9	8,140.7	1,120.6	8,213.9	0.00	0.00	0.00	
21,800.0	90.00	359.58	13,055.9	8,240.7	1,119.9	8,313.2	0.00	0.00	0.00	
21,900.0	90.00	359.58	13,055.9	8,340.7	1,119.1	8,412.6	0.00	0.00	0.00	
22,000.0	90.00	359.58	13,055.9	8,440.7	1,118.4	8,511.9	0.00	0.00	0.00	
22,100.0	90.00	359.58	13,055.9	8,540.7	1,117.7	8,611.2	0.00	0.00	0.00	
22,200.0	90.00	359.58	13,055.9	8,640.7	1,116.9	8,710.6	0.00	0.00	0.00	
22,300.0	90.00	359.58	13,055.9	8,740.7	1,116.2	8,809.9	0.00	0.00	0.00	
22,400.0	90.00	359.58	13,055.9	8,840.7	1,115.4	8,909.3	0.00	0.00	0.00	
22,500.0	90.00	359.58	13,055.9	8,940.7	1,114.7	9,008.6	0.00	0.00	0.00	
22,600.0	90.00	359.58	13,055.9	9,040.7	1,114.0	9,108.0	0.00	0.00	0.00	
22,700.0	90.00	359.58	13,056.0	9,140.7	1,113.2	9,207.3	0.00	0.00	0.00	
22,800.0	90.00	359.58	13,056.0	9,240.7	1,112.5	9,306.7	0.00	0.00	0.00	
22,900.0	90.00	359.58	13,056.0	9,340.7	1,111.8	9,406.0	0.00	0.00	0.00	
23,000.0	90.00	359.58	13,056.0	9,440.7	1,111.0	9,505.3	0.00	0.00	0.00	
23,100.0	90.00	359.58	13,056.0	9,540.7	1,110.3	9,604.7	0.00	0.00	0.00	
23,200.0	90.00	359.58	13,056.0	9,640.7	1,109.6	9,704.0	0.00	0.00	0.00	
23,300.0	90.00	359.58	13,056.0	9,740.7	1,108.8	9,803.4	0.00	0.00	0.00	
23,400.0	90.00	359.58	13,056.0	9,840.7	1,108.1	9,902.7	0.00	0.00	0.00	
23,500.0	90.00	359.58	13,056.0	9,940.6	1,107.4	10,002.1	0.00	0.00	0.00	
23,600.0	90.00	359.58	13,056.0	10,040.6	1,106.6	10,101.4	0.00	0.00	0.00	
23,700.0	90.00	359.58	13,056.0	10,140.6	1,105.9	10,200.8	0.00	0.00	0.00	
23,800.0	90.00	359.58	13,056.0	10,240.6	1,105.2	10,300.1	0.00	0.00	0.00	
23,824.4	90.00	359.58	13,056.0	10,265.0	1,105.0	10,324.3	0.00	0.00	0.00	



EOG Resources
Planning Report

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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3343.0usft
Site:	Dogwood 23 Fed Com	North Reference:	Grid
Well:	#741H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.3		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP(Dogwood 23 Fed C - plan hits target center - Point	0.00	0.01	12,483.0	-665.0	1,185.0	372,069.00	788,435.00	32° 1' 13.410 N	103° 32' 9.776 W
PBHL (Dogwood 23 Fed - plan hits target center - Point	0.00	0.00	13,056.0	10,265.0	1,105.0	382,999.00	788,355.00	32° 3' 1.573 N	103° 32' 9.768 W
FTP (Dogwood 23 Fed C - plan hits target center - Point	0.00	0.00	13,056.0	-93.0	1,181.0	372,641.00	788,431.00	32° 1' 19.071 N	103° 32' 9.773 W
Fed Perf(Dogwood 23 F - plan hits target center - Point	0.00	0.00	13,056.0	5,086.0	1,143.0	377,820.00	788,393.00	32° 2' 10.322 N	103° 32' 9.770 W



PROPRIETARY
 THIS DRAWING AND THE IDEAS AND INFORMATION INCLUDED IN THIS DRAWING ARE PROPRIETARY AND ARE NOT TO BE REPRODUCED, DISTRIBUTED OR DISCLOSED IN ANY MANNER, WITHOUT THE PRIOR, WRITTEN CONSENT OF A DULY AUTHORIZED OFFICER OF HELMERICH & PAYNE INTL DRILLING CO.

ISSUED FOR FABRICATION
 February-10-2014
 DRAFTSMAN *MWL*
 ENGINEER *[Signature]*

STANDARD TOLERANCES (UNLESS NOTED)			
1. FABRICATION DIMENSIONS:		A-0" TO 24"	± 1/16"
		B-24" TO 120"	± 1/8"
		C-OVER 120"	± 1/4"
2. MACHINED DIMENSIONS:		A-ANGULAR	± .30"
		B-LINEAR (EXPRESSED AS FRACTION)	± .015
		LINEAR (EXPRESSED TO ONE DECIMAL)	± .1
		LINEAR (EXPRESSED TO TWO DECIMALS)	± .015
		LINEAR (EXPRESSED TO THREE DECIMALS)	± .005

HELMERICH & PAYNE INTERNATIONAL DRILLING CO.	
TITLE: 3 CHOKE, 3 LEVEL, 10M CHOKE MANIFOLD G.A.	
CUSTOMER: H&P	
PROJECT:	
DRAWN: MWL	DATE: 2/10/2014
SCALE: 3/4"=1'-0"	SHEET: 1 OF 1
DWG. NO.: HP-D1254	REV: -

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 Standard	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

Page 1 of 1

Exhibit 1

EOG Resources

11" 10M PSI BOP Stack

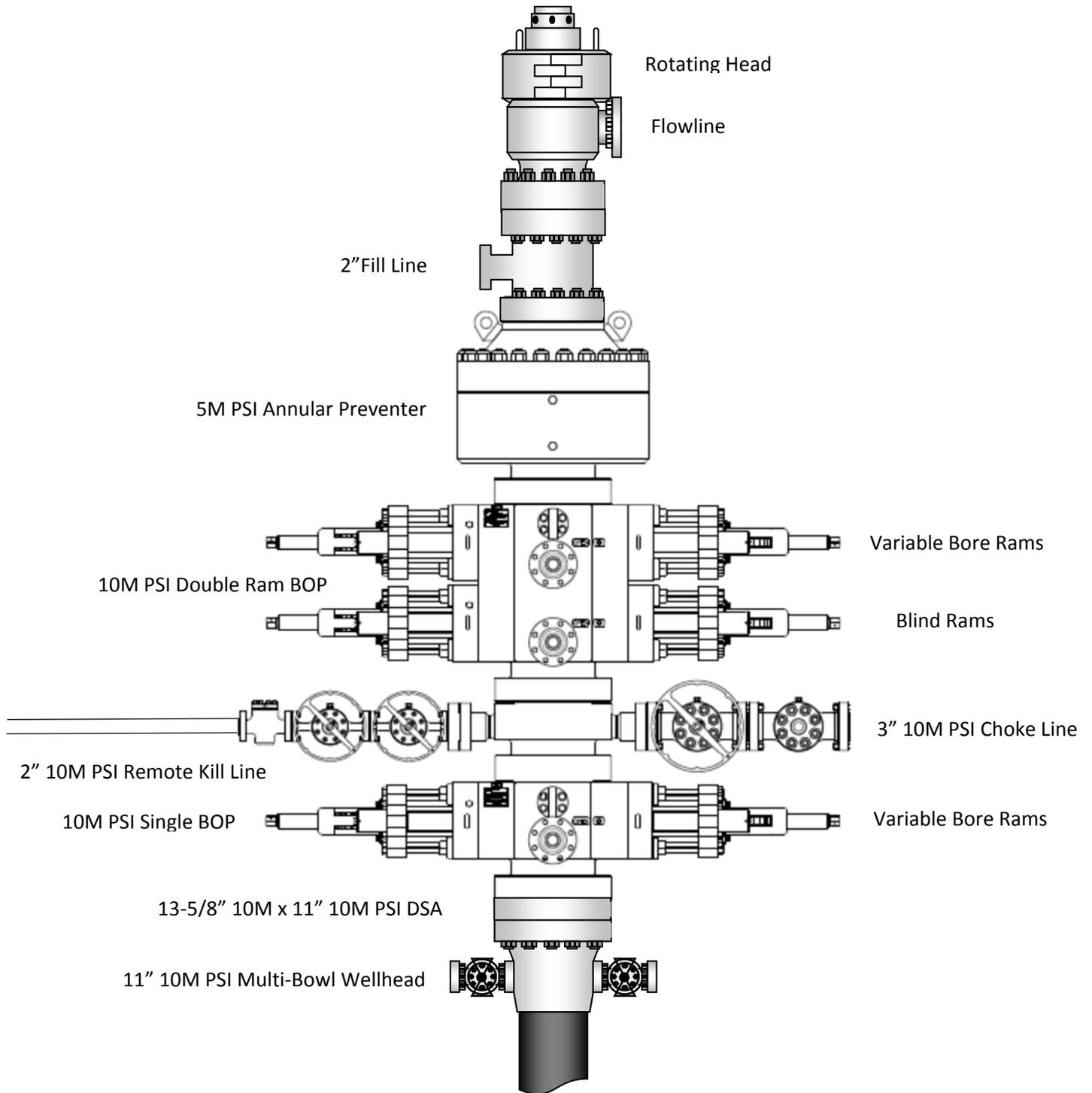
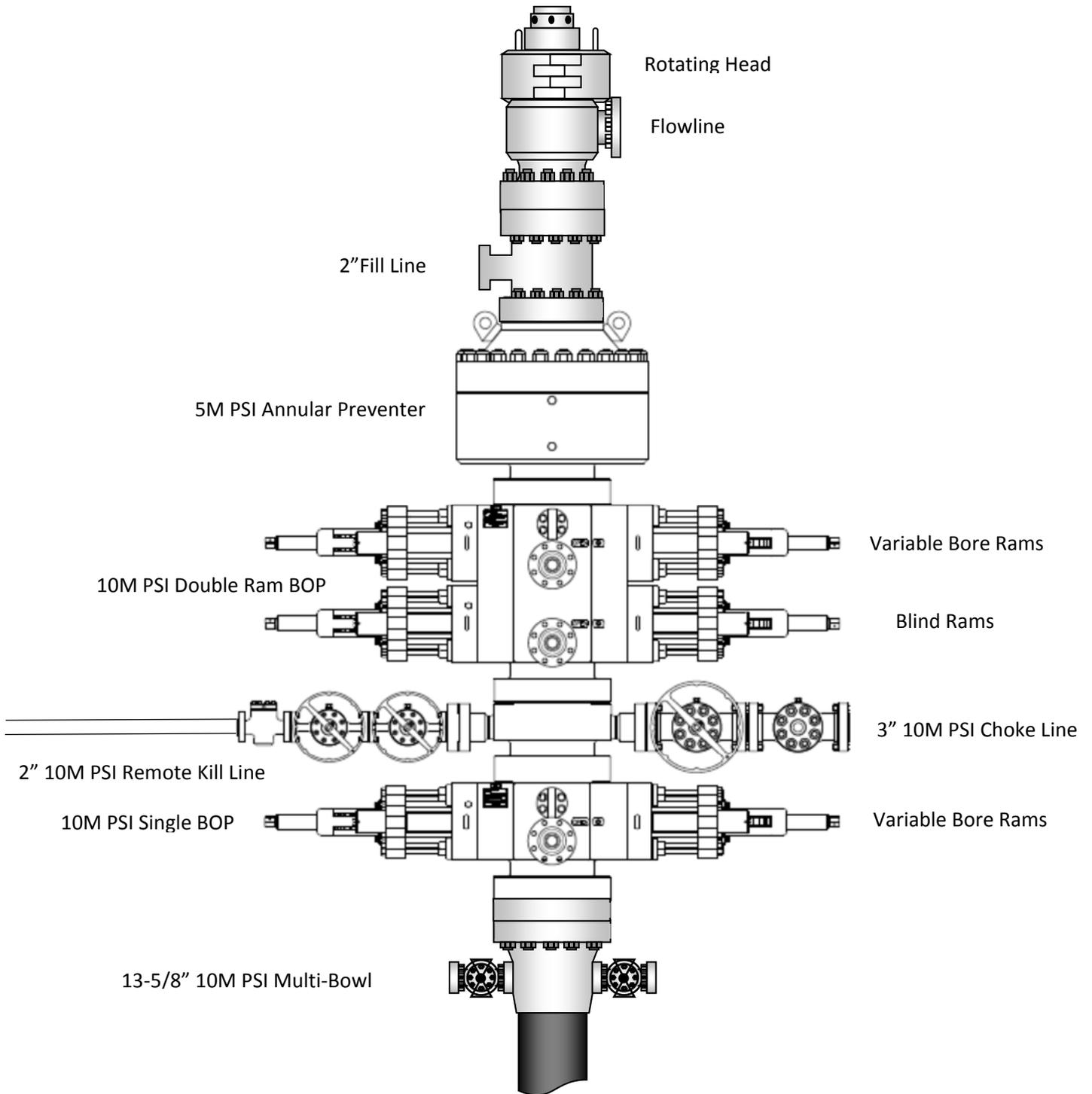


Exhibit 1

EOG Resources

13-5/8" 10M PSI BOP Stack



Metal One Corp. <i>Metal One</i>	MO-FXL Connection Data Sheet		Page	MCTP	
			Date	3-Nov-16	
	Rev.	0			

MO-FXL	Geometry	Imperial		S.I.	
	Pipe Body				
	Grade	P110HC *1		P110HC *1	
	Pipe OD (D)	7 5/8	in	193.68	mm
	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 Critical Area	5.714	in ²	3686	mm ²
	Joint load efficiency	70	%	70	%
	Thread Taper	1 / 10 (1.2" per ft)			
	Number of Threads	5 TPI			
	Performance				
	Performance Properties for Pipe Body				
	S.M.Y.S. *1	1,067	kips	4,747	kN
	M.I.Y.P. *1	10,760	psi	74.21	MPa
	Collapse Strength *1	7,360	psi	50.76	MPa
	Note S.M.Y.S.= Specified Minimum YIELD Strength of Pipe body M.I.Y.P. = Minimum Internal Yield Pressure of Pipe body *1 Based on VSB P110HC (YS=125~140ksi)				
	Performance Properties for Connection				
	Tensile Yield load	747 kips (70% of S.M.Y.S.)			
	Min. Compression Yield	747 kips (70% of S.M.Y.S.)			
	Internal Pressure	8,610 psi (80% of M.I.Y.P.)			
	External Pressure	100% of Collapse Strength			
	Max. DLS (deg. /100ft)	40			
	Recommended Torque				
	Min.	15,500	ft-lb	21,000	N-m
	Opti.	17,200	ft-lb	23,300	N-m
	Max.	18,900	ft-lb	25,600	N-m
	Operational Max.	23,600	ft-lb	32,000	N-m
	Note : Operational Max. torque can be applied for high torque application				

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 23203

CONDITIONS OF APPROVAL

Operator: EOG RESOURCES INC	P.O. Box 2267	Midland, TX79702	OGRID: 7377	Action Number: 23203	Action Type: C-103A
OCD Reviewer pkautz			Condition None		