

Well Name: MERCILESS 13 FED COM	Well Location: T25S / R32E / SEC 13 / NWNE /	County or Parish/State:
Well Number: 723H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM110835	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547678	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: 04/20/2021

Time Sundry Submitted: 06:37

Date proposed operation will begin: 04/18/2021

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 with 6" production casing

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Merciless_13_Fed_Com_723H_Permit_Info___Revised_casing_3.29.2021_20210420063707.pdf
- 6.000in_24.50_VST_P110EC_VAM_SFC_Draft_CDS_USA__1__20210420063659.pdf
- 6.000in_24.50__0.400in_Wall__VST_P110EC_DWC_C_IS_CDS_AB_20210420063658.PDF
- 8.75_35.7_lb_ft_Wedge_441_Int_Casing_20210420063658.pdf
- Wellhead_10.75x8.75x6_csg_Cactus_SDT_3141_1_20210414161815.pdf
- EOG_BLM_10M_Annular_Variance___9.675_in_20210330083949.pdf
- 10_M_Choke_Manifold_20210330083949.pdf
- 10_M_BOP_Diagram_9.675_in_20210330083948.pdf
- Co_Flex_Hose_Test_Chart_20210330083948.pdf
- Co_Flex_Hose_Certification_20210330083948.pdf

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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 20, 2021 06:37 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: 04/21/2021

Signature: Chris Walls

Revised Permit Information 3/29/2021:

Well Name: Merciless 13 Fed Com #723H

Location:

SHL: 290' FNL & 2159' FEL, Section 13, T-25-S, R-32-E, Lea Co., N.M.

BHL: 2542' FNL & 1980' FEL, Section 24, T-25-S, R-32-E, Lea Co., N.M.

Design A**Casing Program:**

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
13"	0' – 1,000'	10.75"	40.5#	J-55	STC	1.125	1.25	1.60
9.875"	0' – 11,110'	8.75"	35.7#	P110-ICY	Wedge 441	1.125	1.25	1.60
7.875"	0' – 20,109'	6"	24.5#	P-110EC	VAM SFC	1.125	1.25	1.60

Variance is requested to wave the centralizer requirements for the 8-3/4" casing in the 9-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 9-7/8" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to wave any centralizer requirements for the 6" casing in the 7-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 7-7/8" hole interval to maximize cement bond and zonal isolation.

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /sk	Slurry Description
1,000' 10-3/4"	290	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 @ 800')
11,110' 8-3/4"	470	14.2	1.11	1 st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,176')
	1,220	14.8	1.5	2 nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
20,109' 6"	820	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,610')

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 8-3/4" 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:

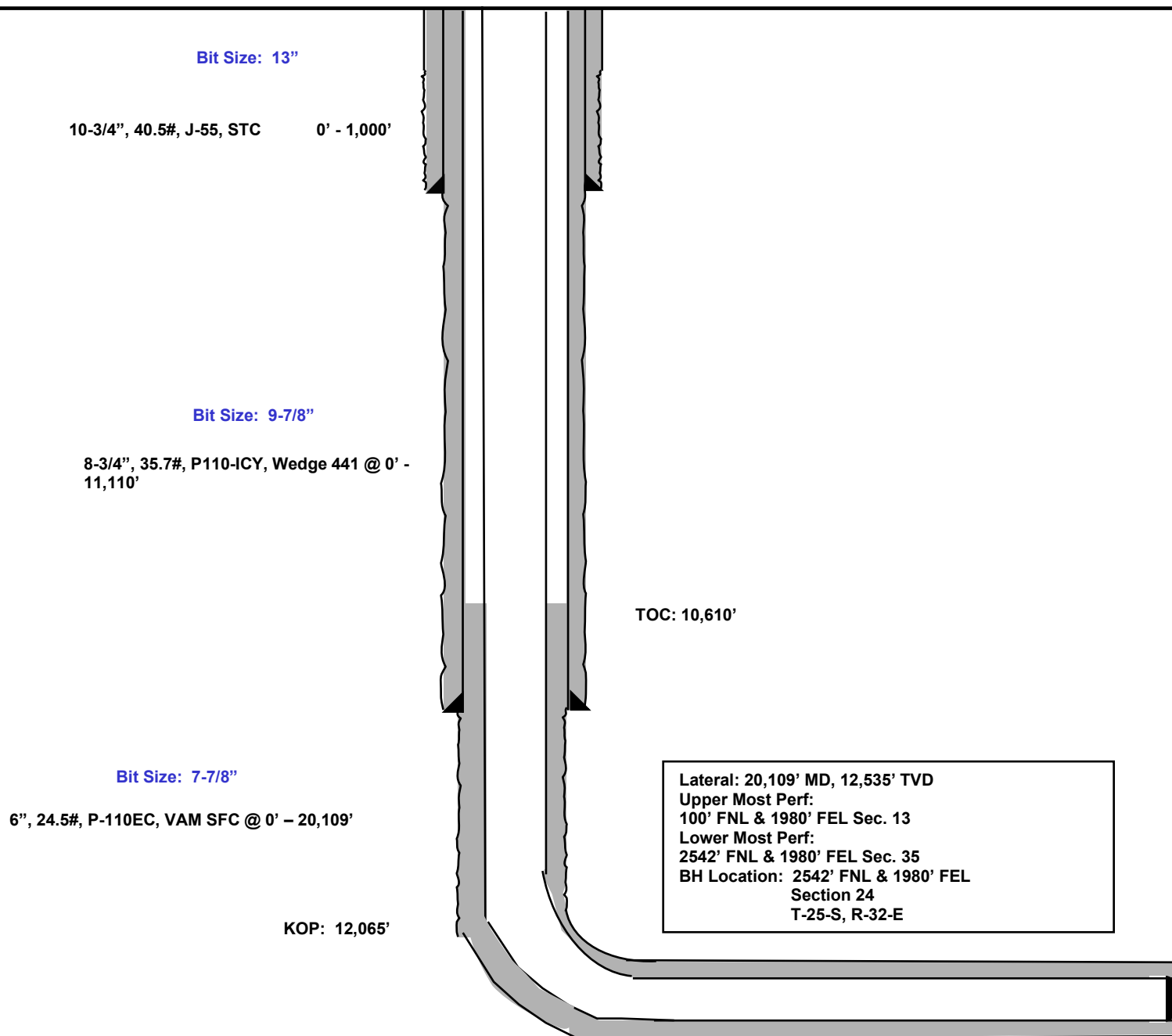
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,000'	Fresh - Gel	8.6-8.8	28-34	N/c
1,000' – 11,110'	Brine	10.0-10.2	28-34	N/c
11,110' – 11,990'	Oil Base	8.7-9.4	58-68	N/c - 6
11,990' – 20,109' Lateral	Oil Base	10.0-14.0	58-68	3 - 6

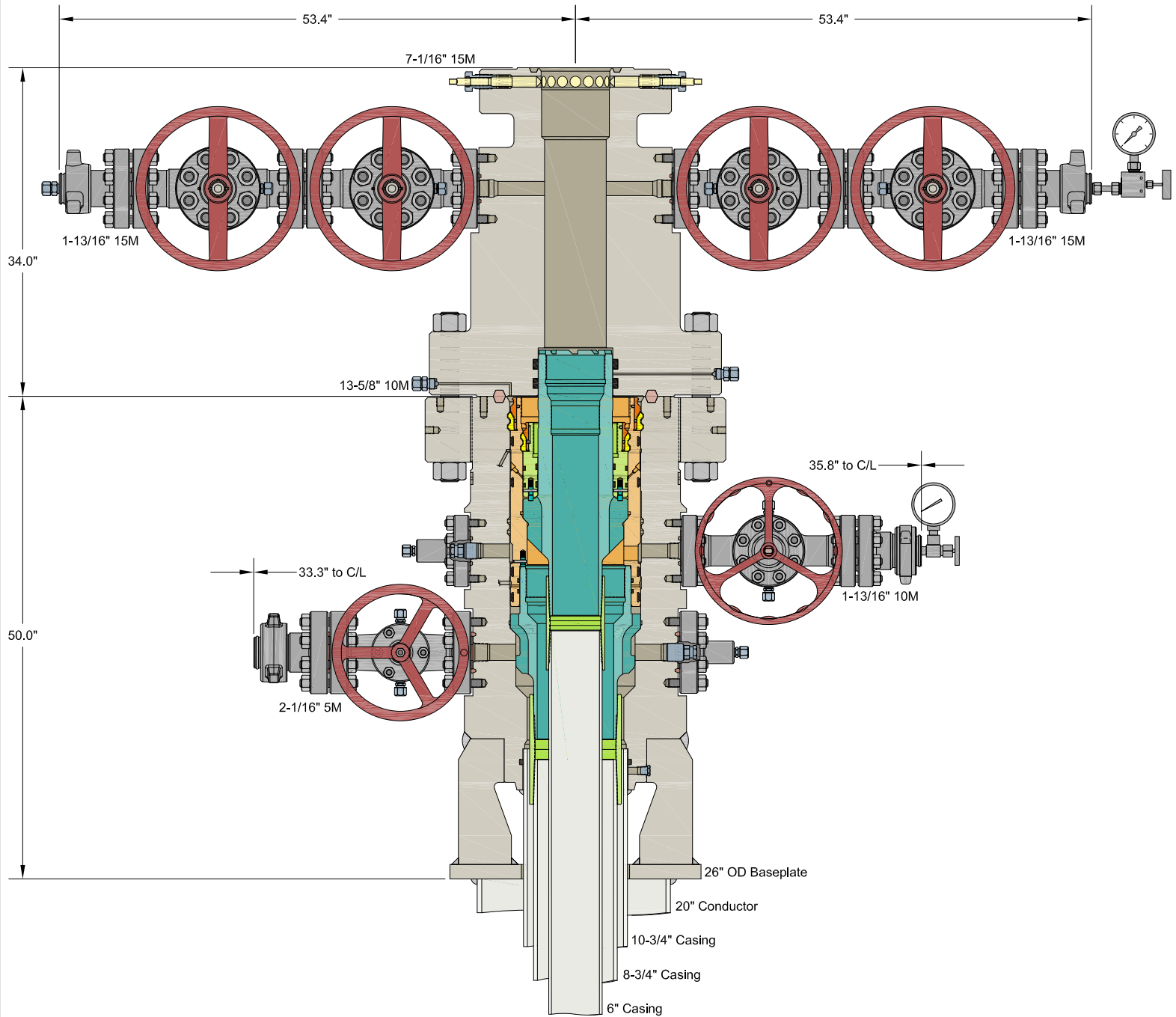
290' FNL
2159' FEL
Section 13
T-25-S, R-32-E

Revised Wellbore

KB: 3,521'
GL: 3,496'

API: 30-025-47678





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ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

EOG RESOURCES

10-3/4" x 8-3/4" x 6" MBU-3T-SF-SOW Wellhead System
With 8-5/8" & 6" Pin Bottom Mandrel Casing Hangers
And 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head

DRAWN	DLE	14APR21
APPRV		
DRAWING NO.	SDT-3141-1	

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:

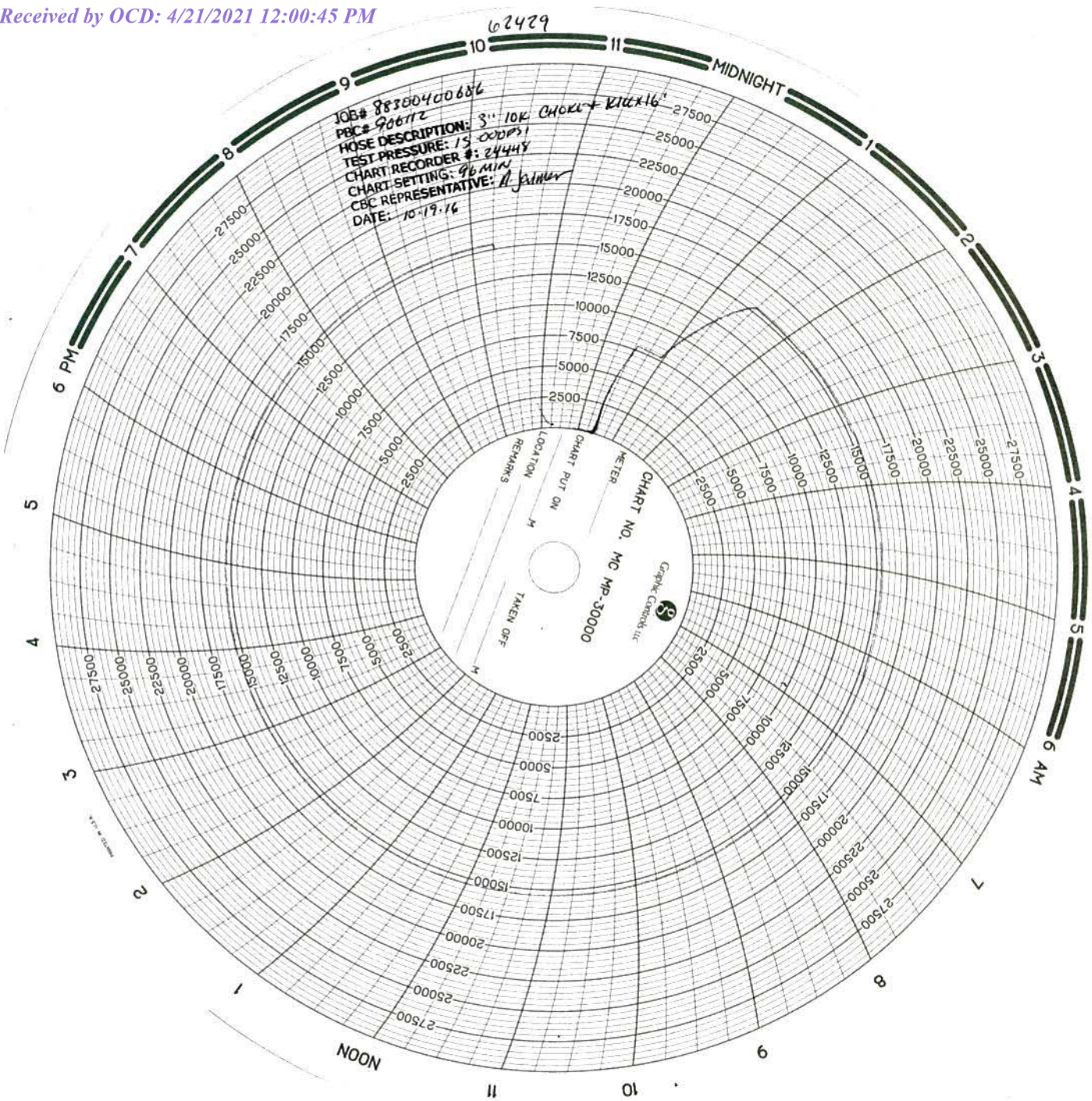
Visual inspection: Every 3 months (or during installation/removal)
 Annual: In-situ pressure test
 Initial 5 years service: Major inspection
 2nd Major inspection: 8 / 10 years of service
 (Detailed description of test regime available upon request, ISS-059 Rev 04)

****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





8.750" 35.70 lb/ft P110-ICY TenarisHydril Wedge 441™

Confidential



Preliminary Special Data Sheet

TH DS-20.0504

30 October 2020

Rev 00

Nominal OD	8.750 in.	Wall Thickness	0.400 in.	Grade	P110-ICY
Min Wall Thickness	87.5%	Type	CASING	Connection OD Option	REGULAR

Pipe Body Data

Geometry

Nominal OD	8.750 in.
Nominal Weight	35.70 lbs/ft
Standard Drift Diameter	7.794 in.
Special Drift Diameter	7.875 in.

Nominal ID	7.950 in.
Wall Thickness	0.400 in.
Plain End Weight	35.70 lbs/ft
OD Tolerance	API

Performance	
Body Yield Strength	1312 x 1000 lbs
Internal Yield	10000 psi
SMYS	125000 psi
Collapse Pressure	5400 psi

Connection Data

Geometry

Connection OD	9.030 in.
Connection ID	7.950 in.
Make-up Loss	3.750 in.
Threads per in.	3.40
Connection OD Option	REGULAR
Coupling Length	8.666 in.

Performance	
Tension Efficiency	75%
Joint Yield Strength	984 x 1000 lbs
Internal Yield	10000 psi
Compression Efficiency	75%
Compression Strength	984 x 1000 lbs
Bending	49 °/100 ft
Collapse	5400 psi

Make-up Torques	
Minimum	23000 ft-lbs
Optimum	24000 ft-lbs
Maximum	27000 ft-lbs
Operational Limit Torques	
Operating Torque	70000 ft-lbs
Yield Torque	82000 ft-lbs
Buck-On Torques	
Minimum	27000 ft-lbs
Maximum	29000 ft-lbs

Notes

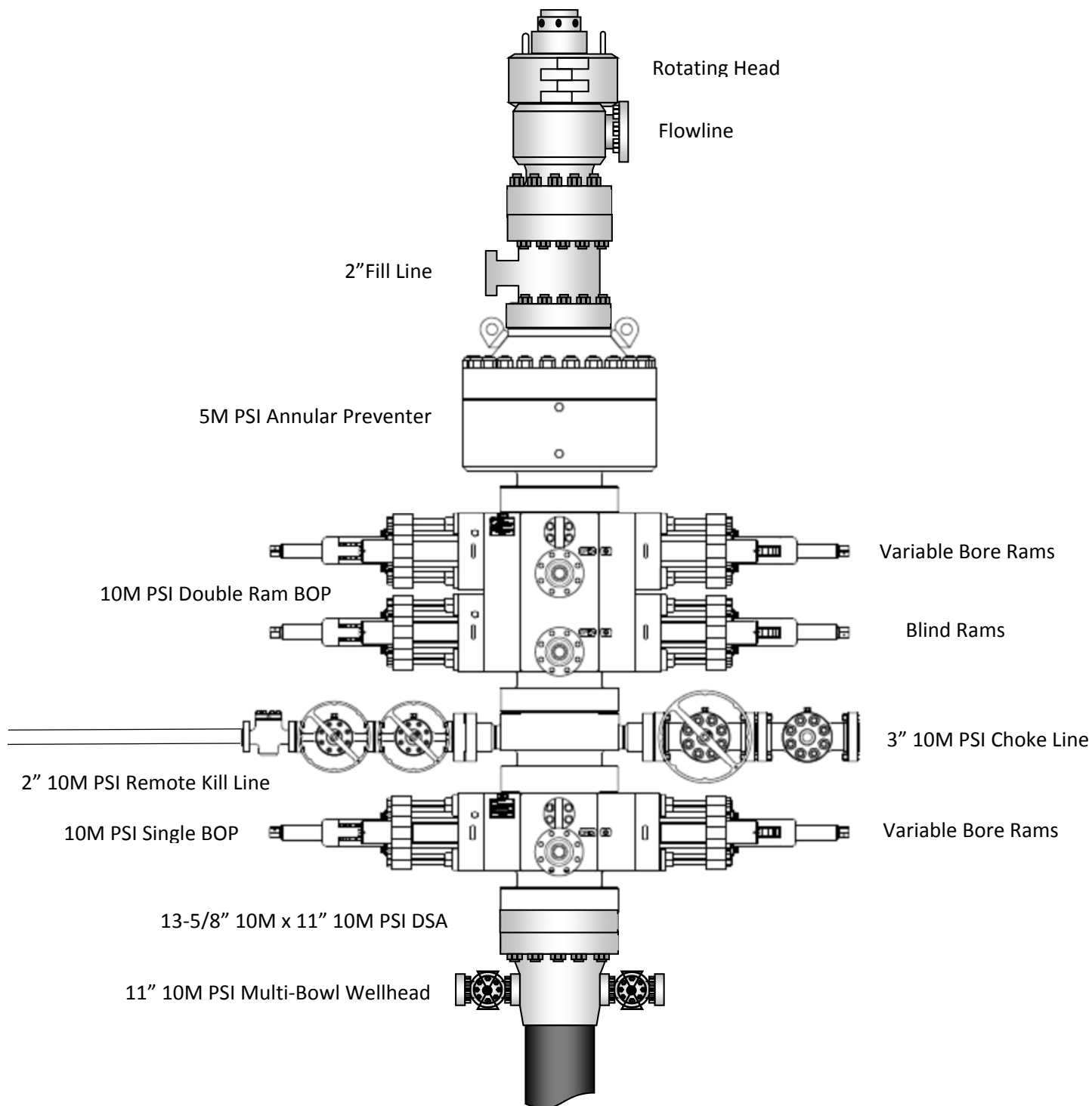
*If you need to use torque values that are higher than the maximum indicated, please contact a local Tenaris technical sales representative

- Important Note: In October 2019, TenarisHydril Wedge XP® 2.0 SL™ was renamed TenarisHydril Wedge 441™. Product dimensions and properties remain identical and both connections are fully interchangeable.

Exhibit 1

EOG Resources

11" 10M PSI BOP Stack

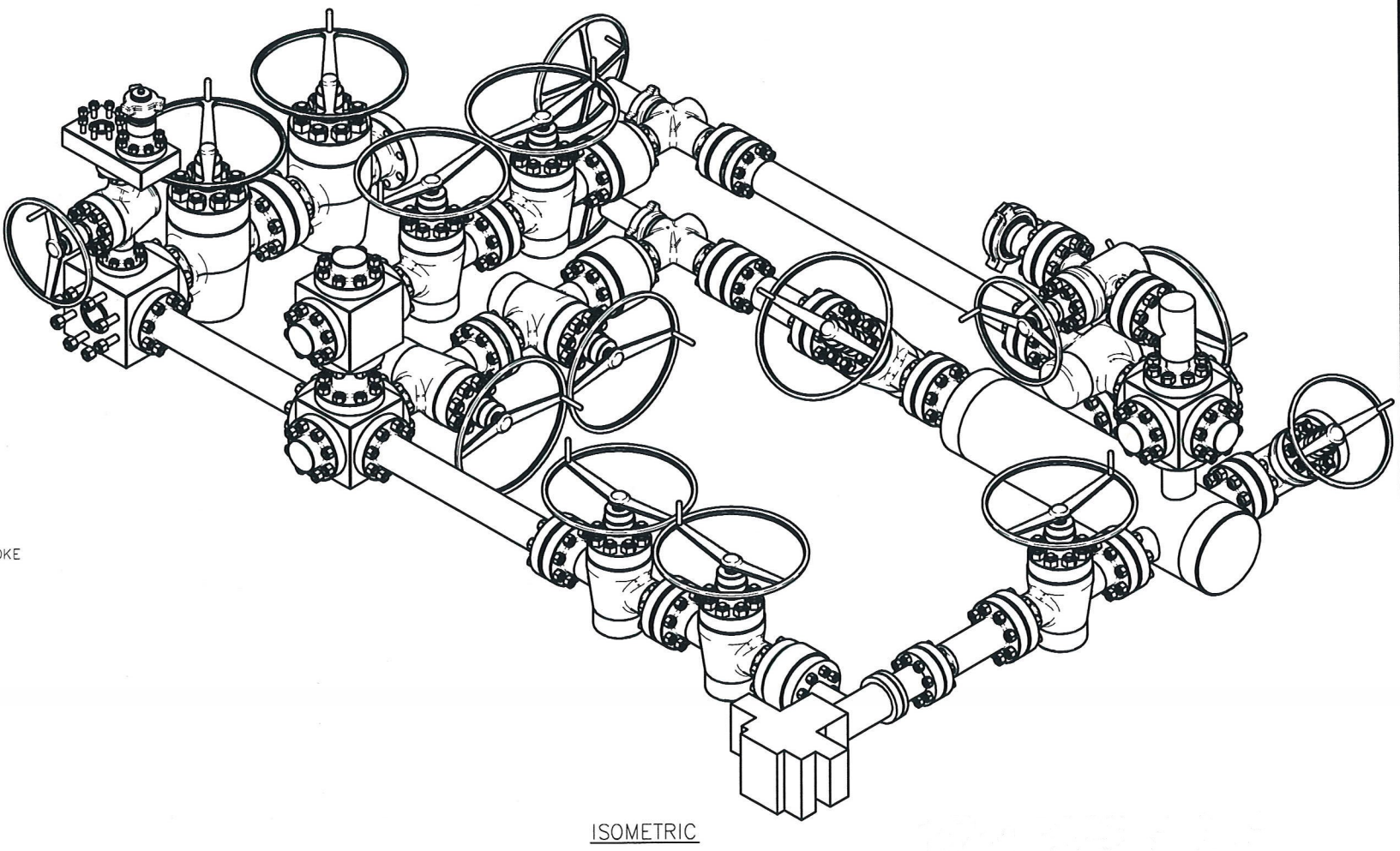
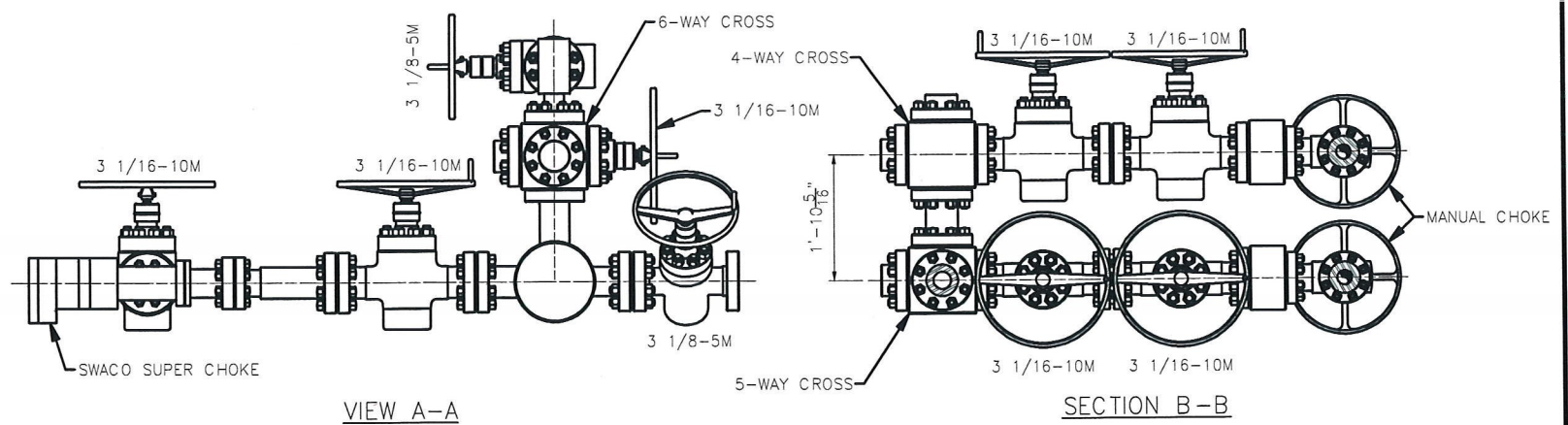




PROPRIETARY

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ISSUED FOR FABRICATION
February-10-2014
DRAFTSMAN *MWL*
ENGINEER *JSK*



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	
	C-LINEAR (EXPRESSED TO ONE DECIMAL)	± .1	
	D-LINEAR (EXPRESSED TO TWO DECIMALS)	± .015	
	E-LINEAR (EXPRESSED TO THREE DECIMALS)	± .005	

REV		DATE	DESCRIPTION	BY

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

New Search »

« Back to Previous List

USC ☒ Metric

6/8/2015 10:14:05 AM

Mechanical Properties	Pipe	BTC	LTC	STC	
Minimum Yield Strength	55,000	--	--	--	psi
Maximum Yield Strength	80,000	--	--	--	psi
Minimum Tensile Strength	75,000	--	--	--	psi
Dimenstons	Pipe	BTC	LTC	STC	
Outside Diameter	10.750	11.750	--	11.750	in.
Wall Thickness	0.350	--	--	--	in.
Inside Diameter	10.050	10.050	--	10.050	in.
Standard Drift	9.894	9.894	--	9.894	in.
Alternate Drift	--	--	--	--	in.
Nominal Linear Weight, T&C	40.50	--	--	--	lbs/ft
Plain End Weight	38.91	--	--	--	lbs/ft
Performance	Pipe	BTC	LTC	STC	
Minimum Collapse Pressure	1,580	1,580	--	1,580	psi
Minimum Internal Yield Pressure	3,130	3,130	--	3,130	psi
Minimum Pipe Body Yield Strength	629.00	--	--	--	1000 lbs
Joint Strength	--	700	--	420	1000 lbs
Reference Length	--	11,522	--	6,915	ft
Make-Up Data	Pipe	BTC	LTC	STC	
Make-Up Loss	--	4.81	--	3.50	in.
Minimum Make-Up Torque	--	--	--	3,150	ft-lbs
Maximum Make-Up Torque	--	--	--	5,250	ft-lbs

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 24971

CONDITIONS OF APPROVAL

Operator:	EOG RESOURCES INC	P.O. Box 2267	Midland, TX79702	OGRID:	7377	Action Number:	24971	Action Type:	C-103A
OCD Reviewer									Condition
pkautz									None