Received by OCD: 12/1/2023 3:55:00 PM

eceived by OCD. 12/1/202.	5.55.001 M				I uge I of		
	UNITED STAT DEPARTMENT OF THE UREAU OF LAND MAN	INTERIOR		FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021 5. Lease Serial No.			
Do not use th		ORTS ON WELLS to drill or to re-enter an APD) for such proposals		6. If Indian, Allottee or	Tribe Name		
	IN TRIPLICATE - Other inst	ructions on page 2		7. If Unit of CA/Agree	ment, Name and/or No.		
1. Type of Well Oil Well	Gas Well Other			8. Well Name and No.			
2. Name of Operator				9. API Well No.			
3a. Address		3b. Phone No. (include area code	e)	10. Field and Pool or Exploratory Area			
4. Location of Well (Footage, Sec.	, T.,R.,M., or Survey Description)		11. Country or Parish,	State		
12.	CHECK THE APPROPRIATE E	BOX(ES) TO INDICATE NATURE	E OF NOTI	CE, REPORT OR OTH	ER DATA		
TYPE OF SUBMISSION		TY	PE OF ACT	TION			
Notice of Intent	Acidize	Deepen Hydraulic Fracturing		action (Start/Resume)	Water Shut-Off Well Integrity		
Subsequent Report	Casing Repair Change Plans	New Construction Plug and Abandon		mplete oorarily Abandon	Other		
Final Abandonment Notice	Convert to Injection	=		r Disposal			
the proposal is to deepen direc the Bond under which the wor completion of the involved ope	tionally or recomplete horizonta k will be perfonned or provide the erations. If the operation results is	lly, give subsurface locations and n ne Bond No. on file with BLM/BIA in a multiple completion or recomp	neasured an A. Required pletion in a	d true vertical depths o subsequent reports mus new interval, a Form 31	rk and approximate duration thereof. If f all pertinent markers and zones. Attach t be filed within 30 days following 60-4 must be filed once testing has been he operator has detennined that the site		

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)					
	Title				
Signature	Date				
THE SPACE FOR FEDE	RAL OR STATE C	OFICE USE			
Approved by					
	Title		Date		
Conditions of approval, if any, are attached. Approval of this notice does not warrant certify that the applicant holds legal or equitable title to those rights in the subject lea which would entitle the applicant to conduct operations thereon.					
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any any false, fictitious or fraudulent statements or representations as to any matter within		villfully to make to any d	epartment or agency of the United States		

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

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

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

Additional Information

Location of Well

0. SHL: NESW / 2602 FSL / 1786 FWL / TWSP: 25S / RANGE: 34E / SECTION: 14 / LAT: 32.1303906 / LONG: -103.4435221 (TVD: 27 feet, MD: 27 feet) PPP: NENW / 0 FNL / 1321 FWL / TWSP: 25S / RANGE: 34E / SECTION: 23 / LAT: 32.1232478 / LONG: -103.4450177 (TVD: 12522 feet, MD: 14876 feet) PPP: NESW / 2310 FSL / 1322 FWL / TWSP: 25S / RANGE: 34E / SECTION: 14 / LAT: 32.1294653 / LONG: -103.444552 (TVD: 12522 feet, MD: 12887 feet) BHL: SWSW / 330 FSL / 1323 FWL / TWSP: 25S / RANGE: 34E / SECTION: 23 / LAT: 32.1096407 / LONG: -103.4450157 (TVD: 12522 feet, MD: 19826 feet)

	Sundry Print Report 12/01/2023
Well Location: T25S / R34E / SEC 14 /	County or Parish/State: LEA /
NESW / 32.1303906 / -103.4435221 Type of Well: OIL WELL	NM Allottee or Tribe Name:
Unit or CA Name:	Unit or CA Number:
Well Status: Approved Application for Permit to Drill	Operator: MARATHON OIL PERMIAN LLC
	NESW / 32.1303906 / -103.4435221 Type of Well: OIL WELL Unit or CA Name: Well Status: Approved Application for

Notice of Intent

Sundry ID: 2763981

Type of Submission: Notice of Intent

Date Sundry Submitted: 12/01/2023

Date proposed operation will begin: 12/01/2023

Type of Action: APD Change Time Sundry Submitted: 06:35

Procedure Description: Marathon Oil Permian respectfully requests permission to have two options regarding the production casing. Please see attached specs for the option 2 casing. Proposed Option 1: 5-1/2", 23#, P110HC, TLW casing, set @ 20594' Proposed Option 2: 5-1/2", 23#, P110EC, DWCC Plus casing, set @ 20594' No other casing cement design changes are requested.

NOI Attachments

Procedure Description

Dogie_Draw_7H_Drill_Plan_Option_2_20231201141338.pdf

5.500_23.00_P110_CY_TLW_20231201052908.pdf

5.5in_23lb_P110EC_DWCC_PLUS_20231201052721.pdf

Received by OCD: 12/1/2023 3:55:00 PM Well Name: DOGIE DRAW E25 WC FED COM	Well Location: T25S / R34E / SEC 14 / NESW / 32.1303906 / -103.4435221	County or Parish/State: LEAS 5 of 1				
Well Number: 7H	Type of Well: OIL WELL	Allottee or Tribe Name:				
Lease Number: NMNM136221	Unit or CA Name:	Unit or CA Number:				
US Well Number: 300254701500X1	Well Status: Approved Application for Permit to Drill	Operator: MARATHON OIL PERMIAN LLC				

Operator

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

Operator Electronic Signature: TERRI STATHEM

Name: MARATHON OIL PERMIAN LLC

Title: Regulatory Compliance Manager

Street Address: 990 TOWN & COUNTRY BLVD

City: HOUSTON

State: TX

Phone: (713) 296-2113

Email address: TSTATHEM@MARATHONOIL.COM

Field

Representative Name: Street Address: City: State: Phone: Email address:

BLM Point of Contact

BLM POC Name: ZOTA M STEVENS BLM POC Phone: 5752345998 Disposition: Approved Signature: zota stevens

Signed on: DEC 01, 2023 02:13 PM

BLM POC Title: Petroleum Engineer BLM POC Email Address: ZSTEVENS@BLM.GOV

Disposition Date: 12/01/2023

Zip:

MARATHON OIL PERMIAN, LLC. DRILLING AND OPERATIONS PLAN

Marathon Oil

WELL NAME & NUMBER:		DOGIE DRAW E25 WC 7H					
LOCATION:	SECTION	14	TOWNSHIP	25S	RANGE	34E	
		LEA	COUNTY,		NEW MEXICO		

Section 1:

GEOLOGICAL FORMATIONS

Name of Surface Formation: Elevation: Permian 3333 *feet*

Estimated Tops of Important Geological Markers:

Formation	TVD (ft)	TVD (ft) MD (ft)		Lithologies	Mineral Resources	Producing Formation?	
Rustler	857	857	2476	Anhydrite	Brine	No	
Salado	1363	1363	1970	Salt/Anhydrite	Brine	No	
Castile	3562	3562	-229	Salt/Anhydrite	Brine	No	
Base of Salt (BX)	5370	5370	-2037	Salt/Anhydrite	Brine	No	
Lamar	5370	5370	-2037	Sandstone/Shale	None	No	
Bell Canyon	5402	5402	-2069	Sandstone	Oil	No	
Cherry Canyon	6710	6710	-3377	Sandstone	Oil	No No	
Brushy Canyon	8013	8013	-4680	Sandstone	Oil		
Bone Spring Lime	9296	9296	-5963	Limestone	None	No	
Upper Avalon Shale	9296	9296	-5963 Shale		Oil	Yes	
1st Bone Spring Sand	10346	10346	-7013	Sandstone	Oil	Yes	
2nd Bone Spring Carbonate	10346	10346	-7013	Limestone/Shale	None	No	
2nd Bone Spring Sand	10925	10925	-7592	Sandstone	Oil	Yes	
3rd Bone Spring Carbonate	11966	11966	-8633	Limestone	Oil	No	
3rd Bone Spring Sand	11966	11966	-8633	Sandstone	Oil	Yes	
Wolfcamp	12422	12422	-9089	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes	
Wolfcamp A	12565	12565	-9232	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes	
Wolfcamp B	12918	12918	-9585	Sandstone/Shale/Carbonates	Natural Gas / Oil	No	
Wolfcamp C	13020 13020		-9687	Sandstone/Shale/Carbonates	Natural Gas / Oil	No	
Wolfcamp D	13352	13352	-10019	Sandstone/Shale/Carbonates	Natural Gas / Oil	No	

Section 2:

BLOWOUT PREVENTER TESTING PROCEDURE

Pressure Rating (PSI):	10M
Rating Depth:	10000
Equipment:	13 5/8 BOP Annular (5,000 psi WP) and BOP Stack (10,000 psi WP) will be installed and tested before drilling all holes.
Requesting Variance?	Yes
Variance Request:	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
Testing Procedure:	BOP/BOPE will be tested to 250 psi low and a high of 100% WP for the Annular and 5,000psi for the BOP Stack before drilling the intermediate hole, 10,000psi for the BOP Stacking before drilling the production hole. Testing will be conducted by an independent service company per 43 CFR 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the Equipment Description above. If the system is upgraded all the components installed will be functional and tested. Pipe rams and Blind rams will be operationally checked on each trip out of the hole, but not to exceed more than once per day. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock, full opening safety valve / inside BOP and choke lines and choke manifold. See attached schematics. Formation integrity test will be performed per 43 CFR 3172. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR 3172. A multibowl wellhead is being used. The BOP will be tested per 43 CFR 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. See attached schematic.

Marathon Oil Perm	ian LLC.												Drillin	g & Opera	ntions Plar	n - Page	2 of 4
Section 3:							CASI	IG PROGI	RAM								
String Type	Hole Size	Casing Size	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Weight (lbs/ft)	Grade	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
Surface	17.5	13.375	0	882	0	882	3333	2451	54.5	J55	BTC	5.22	1.81	BUOY	4.52	BUOY	4.52
Intermediate	9.875	8.625	0	12022	0	11922	3333	-8589	32	P110HC	TLW	1.20	1.42	BUOY	2.44	BUOY	2.44
Production	7.875	5.5	0	20579	0	12500	3333	-9167	23	P110CY/EC	TLW/DCC	2.45	1.26	BUOY	2.21	BUOY	2.21
		All o	casing strin	gs will be te	sted in acc	ordance w	ith 43 CFR 3	3172.		•			Safety	Factors wi	ll Meet or	Exceed	
Casing Condition: Casing Standard: Tapered String?		А	ew Pl														
rupereu stillig.																Yes o	or No
Is casing new? If us	ed attach	certificat	ion as requ	uired in 43	CFR 3171											Y	es
Does casing meet A																	'es
Is premium or unco				• •			et.									N	١o

Is premium or uncommon casing planned? If yes attach casing specification sheet.	No
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Yes
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Yes
Is well located within Capitan Reef?	No
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is proposed well within the designated four string boundary?	
Is well located in R-111-P and SOPA?	No
If yes, are the first three strings cemented to surface?	
Is the second string set 100' to 600' below the base of salt?	
Is well located in SOPA but not in R-111-P?	No
If yes, are the first 2 strings cemented to surface and third string cement tied back 500' into previous casing?	
Is well located in high Cave/Karst?	No
If yes, are there two strings cemented to surface?	
If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	No
If yes, are there three strings cemented to surface?	

Section 4:
Section 4:

CEMENT PROGRAM

String Type	Lead/Tail	Top MD	Bottom MD	Quantity (sks)	Yield (ft³/sks)	Density (ppg)	Slurry Volume (ft³)	Excess (%)	Cement Type	Additives
Surface	Lead	0	732	323	2.12	12.5	684	25	Class C	Extender,Accelerator,LCM
Surface	Tail	732	882	99	1.32	14.8	130	25	Class C	Accelerator
Intermediate	Lead	0	11522	1003	2.18	12.4	2187	25	Class C	Extender,Accelerator,LCM
Intermediate	Tail	11522	12022	59	1.33	14.8	79	25	Class C	Retarder
Production	Tail	11722	20579	1169	1.68	13	1964	25	Class H	Retarder, Extender, Fluid Loss, Suspension Agent

Stage tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Stage tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Pilot Hole? Pilot Hole Depth: KOP Depth:		No N/A N/A	Plugging Procedure for Pilot Hole: N/A						
Plug Top	Plug Bottom	Excess (%)	Quantity (sx)	Density (ppg)	Yield (ft3/sks)	Water gal/sk	Slurry Description and Cement Type		

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Drilling & Operations Plan - Page 3 of 4

Marathon Oil Permian LLC.	
Section 5:	

CIRCULATING MEDIUM

Mud System Type: Will an air or gas system be used? Closed No

Describe what will be on location to control well or mitigate other conditions:

The necessary mud products for additional weight and fluid loss control will be on location at all times.

Describe the mud monitoring system utilized:

Losses or gains in the mud system will be monitored visually/manually as well as with an electronic PVT.

Circulating	Medium	Table:
circulating	wiculum	rabic.

Top Depth	Bottom Depth	Mud Type	Min. Weight (ppg)	Max Weight (ppg)
0	882	Water Based Mud	8.4	8.8
882	12022	Brine or Oil Based Mud	9.2	10.2
12022	20579	Oil Based Mud	10.5	12.5

Section 6:

TESTING, LOGGING, CORING

List of production tests including testing procedures, equipment and safety measures:

GR from TD to surface (horizontal well - vertical portion of hole)

List of open and cased hole logs run in the well:

GR while drilling from Intermediate casing shoe to TD.

Coring operation description for the well:

Run gamma-ray (GR) and corrected neutron log (CNL) or analogous to surface for future development of the area, one per shared well pad not to exceed 200' radial distance.

Section 7:	ANTICIPATED PRESSURE
Anticipated Bottom Hole Pressure:	8125 PSI
Anticipated Bottom Hole Temperature:	195 °F
Anticipated Abnormal Pressure?	Νο
Anticipated Abnormal Temperature?	No

Potential Hazards:

H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with 43 CFR 3176. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. See attached H2S Contingency Plan.

Section 8:

OTHER INFORMATION

Auxiliary Well Control and Monitoring Equipment:

A Kelly cock will be in the drill string at all times. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.

Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production casing is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached. If Hydrogen Sulfide is encountered, measured amounts and formations will be reported to the BLM.

Anticipated Starting Date and Duration of Operations:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as possible after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 30 days.



TEC-LOCK WEDGE

5.500" 23 LB/FT (.415"Wall) BENTELER P110 CY

Pipe Body Data

Nominal OD:	5.500	in	
Nominal Wall:	.415	in	
Nominal Weight:	23.00	lb/ft	
Plain End Weight:	22.56	lb/ft	
Material Grade:	P110 CY		
Mill/Specification:	BENTELER		
Yield Strength:	125,000	psi	
Tensile Strength:	130,000	psi	
Nominal ID:	4.670	in	
API Drift Diameter:	4.545	in	
Special Drift Diameter:	None	in	
RBW:	87.5 %		
Body Yield:	829,000	lbf	
Burst:	16,510	psi	
Collapse:	16,910	psi	

Connection Data

E

Standard OD:	5.950	in
Pin Bored ID:	4.670	in
Critical Section Area:	6.457	in²
Tensile Efficiency:	97.4 %	
Compressive Efficiency:	100 %	
Longitudinal Yield Strength:	807,000	lbf
Compressive Limit:	829,000	lbf
Internal Pressure Rating:	16,510	psi
External Pressure Rating:	16,910	psi
Maximum Bend:	101.5	°/100ft

Operational Data

Minimum Makeup Torque:	16,400	ft*lbf
Optimum Makeup Torque:	20,500	ft*lbf
Maximum Makeup Torque:	44,300	ft*lbf
Minimum Yield:	49,200	ft*lbf
Makeup Loss:	5.97	in

Notes Operational Torque is equivalent to the Maximum Make-Up Torque







Connection Data Sheet

OD (in.)	WEIGHT (lbs./ft.)	WALL (in.)	GRADE	DRIFT (in.)	RBW%	CONNECTION
5.500	Nominal: 23.00 Plain End: 22.56	0.415	VST P110 EC	4.545	87.5	DWC/C PLUS

PIPE PROPERTIES		
Nominal OD	5.500	in.
Nominal ID	4.670	in.
Nominal Area	6.630	
		sq.in.
Grade Type	API 5CT	
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Tensile Strength	135	ksi
Yield Strength	829	klb
Ultimate Strength	895	klb
Min. Internal Yield	16,510	psi
High Collapse	16,220	psi

CONNECTION PROPERTIES

Connection Type	Semi-Premium T&C	
Connection OD (nom)	6.300	in.
Connection ID (nom)	4.670	in.
Make-Up Loss	4.125	in.
Coupling Length	8.250	in.
Critical Cross Section	6.630	sq.in.
Tension Efficiency	100.0%	of pipe
Compression Efficiency	100.0%	of pipe
Internal Pressure Efficiency	100.0%	of pipe
External Pressure Efficiency	100.0%	of pipe

CONNECTION PERFORMANCES		
Yield Strength	829	klb
Parting Load	895	klb
Compression Rating	829	klb
Min. Internal Yield	16,510	psi
High Collapse	16,220	psi
Maximum Uniaxial Bend Rating	104.2	°/100 ft
Ref String Length w 1.4 Design Factor	25,750	ft

FIELD TORQUE VALUES Min. Make-up Torque 20,600 ft.lbs Opti. Make-up Torque 22,250 ft.lbs Max. Make-up Torque 23,900 ft.lbs Min. Shoulder Torque 2,060 ft.lbs ft.lbs Max. Shoulder Torque 16,480 Max. Delta Turn 0.200 Turns 27,200 ft.lbs **Connection Yield Torque**

For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof; and on an "AS IS" basis without warranty or representation of any kind, whether express or implied, including without limitation any warranty of merchantability, fitness for purpose or completeness. This document and its contents are subject to change without notice. In no event shall VAM USA or its affiliates be responsible for any indirect, special, incidental, punitive, exemplary or consequential loss or damage (including without limitation, loss of buse, loss of bargain, loss of revenue, profit or anticipated profit) however caused or arising, and whether such losses or damages were foreseeable or VAM USA or its affiliates was advised of the possibility of such damages.

09/21/2023 4:06 PM



VAM USA 2107 CityWest Boulevard Suite 1300 Houston, TX 77042 Phone: 713-479-3200 Fax: 713-479-3234 VAM USA Sales E-mail: <u>VAMUSAsales@vam-usa.com</u> Tech Support E-mail: <u>tech.support@vam-usa.com</u>

DWC Connection Data Notes:

- 1. DWC connections are available with a seal ring (SR) option.
- 2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
- 3. Connection performance properties are based on nominal pipe body and connection dimensions.
- DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
- 5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
- 6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
- 7. Bending efficiency is equal to the compression efficiency.
- 8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
- 9. Connection yield torque is not to be exceeded.
- 10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
- 11. DWC connections will accommodate API standard drift diameters.
- 12. DWC/C family of connections are compatible with API Buttress BTC connections. Please contact tech.support@vam-usa.com for details on connection ratings and make-up.

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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09/21/2023 4:06 PM



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

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	290407
	Action Type:
	[C-103] NOI Change of Plans (C-103A)
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CONDITIONS

Created By		Condition Date
pkautz	None	12/4/2023

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Action 290407