Form 3160-5 (June 2019)

# UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

BUR	EAU OF LAND MANAGEMENT	5. Lease Serial No.	5. Lease Serial No.			
Do not use this t	IOTICES AND REPORTS ON W form for proposals to drill or to Use Form 3160-3 (APD) for suc	o re-enter an	6. If Indian, Allottee or	Tribe Name		
SUBMIT IN	TRIPLICATE - Other instructions on pag	7. If Unit of CA/Agree	ment, Name and/or No.			
1. Type of Well			8. Well Name and No.			
Oil Well Gas W	Vell Other					
2. Name of Operator			9. API Well No.			
3a. Address	3b. Phone No.	(include area code)	10. Field and Pool or E	Exploratory Area		
4. Location of Well (Footage, Sec., T., K	.,M., or Survey Description)		11. Country or Parish,	State		
12. CHE	CK THE APPROPRIATE BOX(ES) TO INI	DICATE NATURE O	DF NOTICE, REPORT OR OTH	ER DATA		
TYPE OF SUBMISSION		TYPE	OF ACTION			
Notice of Intent	Acidize Deep Alter Casing Hydr	en [ aulic Fracturing [	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity		
Subsequent Report		Construction [ and Abandon [	Recomplete Temporarily Abandon	Other		
Final Abandonment Notice		Back [	Water Disposal			
14. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)					
		Title				
Signature		Date				
	THE SPACE FOR FED	ERAL OR STA	TE OFICE USE			
Approved by						
certify that the applicant holds legal or e	ned. Approval of this notice does not warran		<u> </u> [	Oate		
	3 U.S.C Section 1212, make it a crime for an ents or representations as to any matter with		and willfully to make to any de	partment or agency of the United States		

(Instructions on page 2)

#### **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, 3162.3-4.

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

(Form 3160-5, page 2)

#### **Additional Information**

#### **Location of Well**

0. SHL: NENW / 155 FNL / 1517 FWL / TWSP: 20S / RANGE: 33E / SECTION: 16 / LAT: 32.579981 / LONG: -103.671941 ( TVD: 0 feet, MD: 0 feet ) PPP: SESW / 1321 FSL / 2178 FWL / TWSP: 20S / RANGE: 33E / SECTION: 21 / LAT: 32.555006 / LONG: -103.669778 ( TVD: 10312 feet, MD: 19028 feet ) PPP: SENW / 1321 FNL / 2178 FWL / TWSP: 20S / RANGE: 33E / SECTION: 21 / LAT: 32.562264 / LONG: -103.669783 ( TVD: 10246 feet, MD: 16388 feet ) PPP: NENW / 0 FSL / 2178 FWL / TWSP: 20S / RANGE: 33E / SECTION: 21 / LAT: 32.565894 / LONG: -103.669786 ( TVD: 10213 feet, MD: 15067 feet ) PPP: NENW / 100 FNL / 2178 FWL / TWSP: 20S / RANGE: 33E / SECTION: 16 / LAT: 32.580131 / LONG: -103.669796 ( TVD: 9808 feet, MD: 9887 feet ) BHL: SESW / 50 FSL / 2178 FWL / TWSP: 20S / RANGE: 33E / SECTION: 21 / LAT: 32.551513 / LONG: -103.669776 ( TVD: 10347 feet, MD: 20408 feet )

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME: | MATADOR PRODUCTION COMPANY** 

LEASE NO.: | NMNM13280

WELL NAME & NO.: PONY EXPRESS FED COM 503H SUNDRY

**SURFACE HOLE FOOTAGE:** 175'/N & 1587'/W **BOTTOM HOLE FOOTAGE** 100'/S & 660'/W

**LOCATION:** | Section 16, T.20 S., R.33 E., NMPM

**COUNTY:** LEA County, New Mexico

COA

H2S	O Yes	• No	
Potash	None	<ul><li>Secretary</li></ul>	© R-111-P
Cave/Karst Potential	• Low	O Medium	O High
Cave/Karst Potential	Critical		
Variance	O None	• Flex Hose	Other
Wellhead	Conventional	• Multibowl	O Both
Other	□4 String Area	□Capitan Reef	□WIPP
Other	✓ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	<b>☑</b> COM	□ Unit

**ALL Previous COAs Still Apply.** 

#### A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

#### **B. CASING**

- 1. The **20** inch surface casing shall be set at approximately **1257** 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.

Surface and Intermediate casings must be kept fluid filled to meet BLM minimum collapse requirement.

2. The 13-3/8 inch intermediate casing shall be set at 2877 feet. The minimum required fill of cement behind the 13-3/8 inch intermediate casing is:

## **Option 1 (Single Stage):**

- Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- 3. The minimum required fill of cement behind the 7 inch production casing is:

## **Option 1 (Single Stage):**

• Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

# RI05092022

Received by OCD: 6/6/2022 8:45:11 AM

<u>District I</u> 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

Section Township

Range

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

County

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-49048		<sup>2</sup> Pool Code 96399	<sup>3</sup> Pool Name TEAS; BONE SPRING	i, WEST
<sup>4</sup> Property Code 332438			operty Name PRESS FED COM	<sup>6</sup> Well Number 503H
<sup>7</sup> OGRID No. 228937			perator Name ODUCTION COMPANY	<sup>9</sup> Elevation 3533.5'

# <sup>10</sup> Surface Location

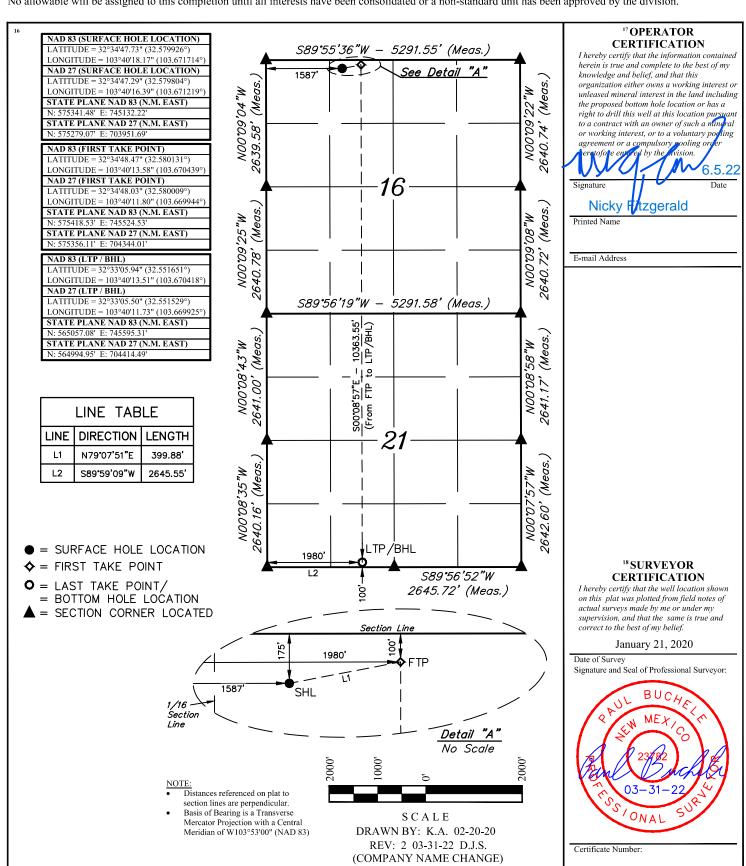
C	16	208	33E		175	NORTH	1587	WEST	LEA		
"Bottom Hole Location If Different From Surface											
III. or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		

North/South line

Feet from the

20S 33Ē 100 SOUTH 1980 WEST LEA 320

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.



Released to Imaging: 6/7/2022 8:05:23 AM

## Pony Express Fed Com #503H

- Matador respectfully requests the option to amend the well design of the Pony Express Fed Com #503H to make the following changes to the current APD.

## **Casing & Cement**

All casing will be API and new. See attached casing assumption worksheet.

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	26	0 - 1257	0 - 1257	20	94	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	17.5	0 - 2877	0 - 2877	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 2	12.25	0 - 5312	0 - 5312	9.625	40	J-55	BUTT	1.125	1.125	1.8
Production Top	8.75	0 - 9491	0 - 9424	7	29	P-110	VAM DWC/C	1.125	1.125	1.8
Production Bottom	8.75	9491 - 20358	9424 - 10347	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8

- All casing strings will be tested in accordance with Onshore Order #2 III.B.1.h
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed
- All non-API joint connections will be of like or greater quality and as run specification sheets will be on location for review
- Request option to run a full 5.5" production string, cement volumes will be adjusted accordingly.
- Request option to drill 8.5" hole throughout 5.5" production casing section. 7" casing will not be ran in 8.5" hole.

String	Туре	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Tail	2970	1.35	4005	14.8	100%	0	С	5% NaCl + LCM
Intermediate 1	Lead	1690	1.78	3010	13.5	50%	0	С	5% NaCl + LCM
	Tail	470	1.35	634	14.8	50%	2302	С	5% NaCl + LCM
Intermediate 2	Lead	1260	1.78	2240	13.5	50%	0	С	Bentonite + 1% CaCL2 + 8% NaCl + LCM
Intermediate 2	Tail	370	1.35	504	14.8	50%	4312	С	5% NaCl + LCM
Production	Lead	280	3.66	1041	10.3	25%	3227	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	2400	1.35	3236	13.2	15%	9091	A/C	Fluid Loss + Dispersant + Retarder + LCM

Matador requests the option to run a DV tool with annular packer as contingency in the intermediate 1 or 2 section on 13-3/8" or 9-5/8" casing if lost circulation is encountered. If losses occur, the DV tool with packer will be placed at least 100' above the loss zone to give the option to pump cement as either a single stage or two stage.

# **Drill Plan**

## **Mud Program**

An electronic Pason mud monitoring system complying with Onshore Order #2 will be used. All necessary mud products (barite, bentonite, LCM) for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions.

Hole Section	Hole Size (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	26	Spud Mud	0 - 1257	8.4 - 8.8	28-30	NC
Intermediate 1	17.5	Brine Water	1257 - 2877	9.5 - 10.2	28-32	NC
Intermediate 2	12.25	Fresh Water	2877 - 5312	8.4 - 8.6	28-30	NC
Production	8.75	OBM/Cut Brine	5312 - 20358	8.6 - 9.4	28-30	NC



# TEC-LOCK WEDGE 5.500" 20 LB/FT (.361"Wall) with 5.875" SPECIAL CLEARANCE OD

BEN P110 CY

# **Pipe Body Data**

Nominal OD:	5.500	in
Nominal Wall:	.361	in
Nominal Weight:	20.00	lb/ft
Plain End Weight:	19.83	lb/ft
Material Grade:	P110 CY	
Mill/Specification:	BEN	
Yield Strength:	125,000	psi
Tensile Strength:	135,000	psi
Nominal ID:	4.778	in
API Drift Diameter:	4.653	in
Special Drift Diameter:	None	in
RBW:	87.5 %	
Body Yield:	729,000	lbf
Burst:	14,360	psi
Collapse:	13,010	psi

# **Connection Data**

Standard OD:	5.875	in
Pin Bored ID:	4.778	in
Critical Section Area:	5.656	in²
Tensile Efficiency:	97 %	
Compressive Efficiency:	100 %	
Longitudinal Yield Strength:	707,000	lbf
Compressive Limit:	729,000	lbf
Internal Pressure Rating:	14,360	psi
External Pressure Rating:	13,010	psi
Maximum Bend:	101.2	°/100ft

# **Operational Data**

Minimum Makeup Torque:	15,000	ft*lbf
Optimum Makeup Torque:	18,700	ft*lbf
Maximum Makeup Torque:	41,200	ft*lbf
Minimum Yield:	45,800	ft*lbf
Makeup Loss:	5.97	in

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



Generated on Sep 03, 2019

## **Technical Specifications**

Connection Type:	Size(O.D.):	Weight (Wall):	Grade:
DWC/C Casing	7 in	29.00 lb/ft (0.408 in)	VMS P110 EC

2012 API Spec 5CT Coupling O.D.

012 API Spec 5CT Coup	oling O.D.	
	Material	
VMS P110 EC	Grade	
125,000	Minimum Yield Strength (psi)	USA
135,000	Minimum Ultimate Strength (psi)	VAM LICA
		VAM-USA 4424 W. Sam Houston Pkwy. Suite 150
	Pipe Dimensions	Houston, TX 77041
7.000	Nominal Pipe Body O.D. (in)	Phone: 713-479-3200 Fax: 713-479-3234
6.184	Nominal Pipe Body I.D.(in)	E-mail: VAMUSAsales@na.vallourec.com
0.408	Nominal Wall Thickness (in)	
29.00	Nominal Weight (lbs/ft)	
28.75	Plain End Weight (lbs/ft)	-
8.449	Nominal Pipe Body Area (sq in)	
	Pipe Body Performance Properties	
1,056,000	Minimum Pipe Body Yield Strength (lbs)	3
9,580	Minimum Collapse Pressure (psi)	
12,750	Minimum Internal Yield Pressure (psi)	
11,700	Hydrostatic Test Pressure (psi)	3
	Connection Dimensions	
7.875	Connection O.D. (in)	5
6.184	Connection I.D. (in)	3
6.125	Connection Drift Diameter (in)	
4.50	Make-up Loss (in)	
8.449	Critical Area (sq in)	
100.0	Joint Efficiency (%)	
	Connection Performance Properties	
1,056,000	Joint Strength (lbs)	12
26,010	Reference String Length (ft) 1.4 Design Factor	3
1,045,000	API Joint Strength (lbs)	3
528,000	Compression Rating (lbs)	
9,580	API Collapse Pressure Rating (psi)	3
12,750	API Internal Pressure Resistance (psi)	
40.9	Maximum Uniaxial Bend Rating [degrees/100 ft]	
	Appoximated Field End Torque Values	
26,800	Minimum Final Torque (ft-lbs)	
31,300	Maximum Final Torque (ff-lbs)	
35,800	Connection Yield Torque (ft-lbs)	

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

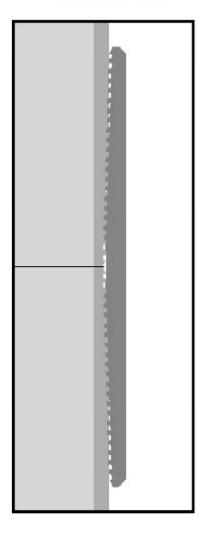
Connection specifications within the control of VAM-USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained 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.

5/10/2013 3:49:39 PM



#### **DWC Connection Data Notes:**

- DWC connections are available with a seal ring (SR) option.
- All standard DWC/C connections are interchangeable for a give 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.
- 4. 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.
- 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.
- DWC connections will accommodate API standard drift diameters.



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5/10/2013 3:49:39 PM

#### **Casing Design Criteria and Load Case Assumptions**

## **Surface Casing**

Collapse: DF<sub>C</sub>=1.125

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.43 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.52 psi/ft).

Burst: DF<sub>b</sub>=1.125

Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud
gradient in which the casing will be run (0.43 psi/ft), which is a more conservative backup force than pore
pressure.

Tensile: DF<sub>t</sub>=1.8

• Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (8.3 ppg).

#### Intermediate #1 Casing

Collapse: DFc=1.125

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: DF<sub>b</sub>=1.125

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud
  gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore
  pressure.
- Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 50 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.47 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: DF<sub>t</sub>=1.8

• Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (10.0 ppg).

#### **Intermediate #2 Casing**

Collapse: DF<sub>C</sub>=1.125

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

#### Burst: DF<sub>b</sub>=1.125

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud
  gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore
  pressure.
- Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 50 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.47 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: DFt=1.8

• Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (8.4 ppg).

#### **Production Casing**

Collapse: DFc=1.125

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.47 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.47 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: DF<sub>b</sub>=1.125

- Pressure Test: 8000 psi casing test with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- Injection Down Casing: 9500 psi surface injection pressure plus an internal pressure gradient of 0.65 psi/ft with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: DF<sub>t</sub>=1.8

• Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (9.0 ppg).

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

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 113733

#### **CONDITIONS**

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	113733
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

#### CONDITIONS

Created By	Condition	Condition Date
pkautz	PREVIOUS COA'S APPLY	6/7/2022