Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

STINDDY NOTICES AND DEPORTS ON WELLS	
BUREAU OF LAND MANAGEMENT	

BUR	EAU OF LAND MANAGEMENT	NMNM119276			
Do not use this t	IOTICES AND REPORTS ON W form for proposals to drill or to Use Form 3160-3 (APD) for suc		6. If Indian, Allottee	or Tribe Name	
	TRIPLICATE - Other instructions on page	7. If Unit of CA/Agreement, Name and/or No.			
1. Type of Well Oil Well Gas W	Vell Other			8. Well Name and No	MODELO 10 FED COM/603H
2. Name of Operator EOG RESOURG	CES INCORPORATED			9. API Well No. 3002	2551809
	BY 2, HOUSTON, TX 77(3b. Phone No. (713) 651-700		ea code)	10. Field and Pool or	
4. Location of Well (Footage, Sec., T., K SEC 10/T24S/R32E/NMP	R.,M., or Survey Description)			11. Country or Parish LEA/NM	, State
12. CHE	CK THE APPROPRIATE BOX(ES) TO INI	DICATE NA	TURE OF NOTI	CE, REPORT OR OT	HER DATA
TYPE OF SUBMISSION			TYPE OF AC	ΓΙΟΝ	
Notice of Intent Subsequent Report		en aulic Fractu Constructio	ring Recl	uction (Start/Resume) amation omplete	Water Shut-Off Well Integrity Other
Final Abandonment Notice	Change Plans Plug Convert to Injection Plug	and Abando	=	porarily Abandon er Disposal	
completed. Final Abandonment No is ready for final inspection.) Modelo 10 Fed Com 603H AP EOG respectfully requests an the following changes: Change BHL from T-24-S, R-3	amendment to our approved APD for this 32-E, Sec 15, 2538' FNL, 2580' FEL, Lea 38' FNL, 1600' FEL, Lea Co., N.M.	s, including	reclamation, hav		
4. I hereby certify that the foregoing is CRAIG RICHARDSON / Ph: (432)	true and correct. Name (Printed/Typed)	Reg	ulatory Speciali	st	
(Electronic Submission Signature)		Date 08/29/2023			
	THE SPACE FOR FEDI	ERAL O	R STATE OF	ICE USE	
Approved by					
KEITH P IMMATTY / Ph: (575) 988	3-4722 / Approved	Title	ENGINEER		09/19/2023 Date
	hed. Approval of this notice does not warrant equitable title to those rights in the subject leaduct operations thereon.		e CARLSBAD		

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.

(Instructions on page 2)

DISTRICT I 6161 Fax: (575) 393-0720 DISTRICT II 283 Fax: (575) 748-9720 DISTRICT III DISTRICT IV 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, New Mexico 87505

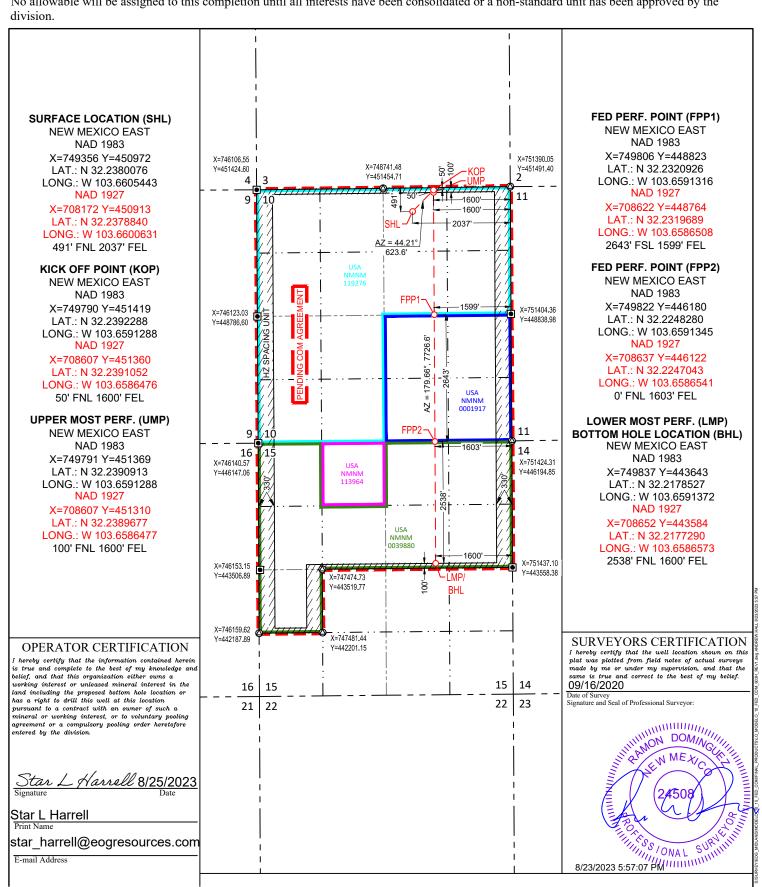
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

AI	PI Number			Pool Code		Pool Name				
3	0-025-51	809		96603	Triste Draw; Bone Spring					
Property Coo	Property Code				Property Name	perty Name Well Number				
325486	3			M	ODELO 10 FE	ED COM		60)3H	
OGRID N	lo.				Operator Name			Elevation	on	
7377	•			EC	G RESOURC	ES, INC.		36	642'	
				Surface Location						
UL or lot no.	Section	Townshi	ip Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
В	10	24-5	32-E	-	491'	NORTH	2037'	EAST	LEA	
			Bottom Ho	le Locatio	n If Different F	From Surface		•		
UL or lot no.	Section	Townshi	ip Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
G	15	24-5	32-E	-	2538' NORTH 1600' EAST LEA					
Dedicated Acres	Joint or I	nfill	Consolidated Code	Orde	Order No.					
1000.00					PENDING COM AGREEMENT					

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the





Revised Permit Information 08/01/2023:

Well Name: Modelo 10 Fed Com 603H

Location: SHL: 491' FNL & 2037' FEL, Section 10, T-24-S, R-32-E, Lea Co., N.M.

BHL: 2538' FNL & 1600' FEL, Section 15, T-24-S, R-32-E, Lea Co., N.M.

Casing Program:

Hole	Interval MD		Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
12.25"	0	1,000	0	1,000	9-5/8"	36#	J-55	LTC
8-3/4"	0	10,856	0	10,820	7-5/8"	29.7#	HCP-110	FXL
6-3/4"	0	10,356	0	10,320	5-1/2"	20#	P110-EC	DWC/C IS MS
6-3/4"	10,356	10,856	10,320	10,820	5-1/2"	20#	P110-EC	Vam Sprint SF
6-3/4"	10,856	19,366	10,820	11,760	5-1/2"	20#	P110-EC	DWC/C IS MS

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 production open hole section.

Cementing Program:

	0 0	Wt.	Yld	
Depth	No. Sacks	ppg	Ft3/sk	Slurry Description
1,000'	210	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-
9-5/8''				Flake (TOC @ Surface)
	50	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium
				Metasilicate (TOC @ 800')
10,820'	480	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3%
7-5/8''				Microbond (TOC @ 6,730')
	1150	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-
				M + 6% Bentonite Gel (TOC @ surface)
19,366'	1500	13.2	1.41	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond
5-1/2''				(TOC @ 10,320')



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 top of cement at the Brushy Canyon (6,933') and the second stage performed as a 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 150 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 will be verified by Echo-meter.

EOG will include the Echo-meter verified fluid top 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:

Measured Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,000'	Fresh - Gel	8.6-8.8	28-34	N/c
1,000' – 10,820'	Brine	10.0-10.2	28-34	N/c
10,820' – 11,318'	Oil Base	8.7-9.4	58-68	N/c - 6
11,318' – 19,366' Lateral	Oil Base	10.0-14.0	58-68	4 - 6



TUBING REQUIREMENTS

EOG respectively requests an exception to the following NMOCD rule:

• 19.15.16.10 Casing AND TUBING RQUIREMENTS: J (3): "The operator shall set tubing as near the bottom as practical and tubing perforations shall not be more than 250 feet above top of pay zone."

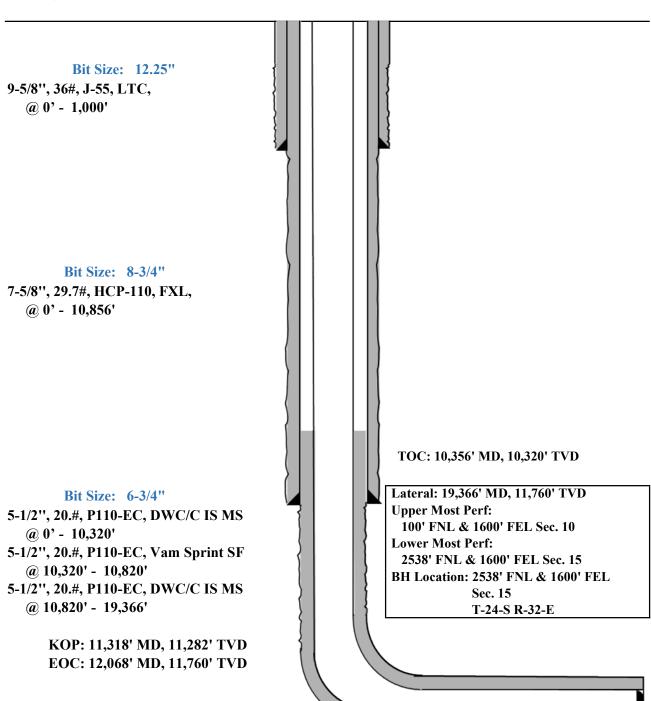
With horizontal flowing and gas lifted wells an end of tubing depth placed at or slightly above KOP is a conservative way to ensure the tubing stays clean from debris, plugging, and allows for fewer well interventions post offset completion. The deeper the tubulars are run into the curve, the higher the probability is that the tubing will become stuck in sand and or well debris as the well produces over time. An additional consideration for EOT placement during artificial lift installations is avoiding the high dog leg severity and inclinations found in the curve section of the wellbore to help improve reliability and performance. Dog leg severity and inclinations tend not to hamper gas lifted or flowing wells, but they do effect other forms of artificial lift like rod pump or ESP (electric submersible pump). Keeping the EOT above KOP is an industry best practice for those respective forms of artificial lift.



491' FNL Revised Wellbore KB: 3667' 2037' FEL GL: 3642'

Section 10

T-24-S, R-32-E API: 30-025-51809





Design B

4. CASING PROGRAM

Hole	Interv	al MD	Interva	al TVD	Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
13"	0	1,000	0	1,000	10-3/4"	40.5#	J-55	STC
9-7/8"	0	10,856	0	10,820	8-3/4"	38.5#	P110-EC	SLIJ II NA
7-7/8"	0	19,366	0	11,760	6"	22.3#	P110-EC	DWC/C IS

Variance is requested to waive 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 waive 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.

Variance is also requested to waive the annular clearance requirements for the 6" casing by 8-3/4" 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 production open hole section.

Cementing Program:

Cemen	ung rrugi	<u></u> .		
		Wt.	Yld	Slurry Description
Depth	No. Sacks	ppg	Ft3/sk	Starry Description
1,000'	270	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk
10-3/4"				Cello-Flake (TOC @ Surface)
	70	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2%
				Sodium Metasilicate (TOC @ 800')
10,820'	550	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3%
8-3/4"				Microbond (TOC @ 6,730')
	1310	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-
				M + 6% Bentonite Gel (TOC @ surface)
19,366'	1190	13.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond
6"				(TOC @ 10,320')



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 top of cement at the Brushy Canyon (6,933') and the second stage performed as a 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 307 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 will be verified by Echo-meter.

EOG will include the Echo-meter verified fluid top 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.

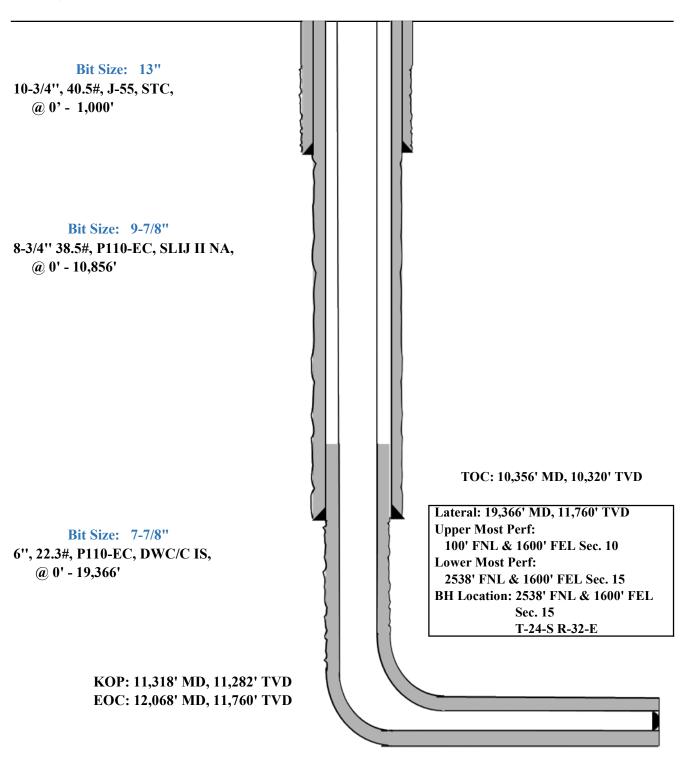


491' FNL Proposed Wellbore 2037' FEL

KB: 3667' GL: 3642'

Section 10

T-24-S, R-32-E API: 30-025-51809





GEOLOGIC NAME OF SURFACE FORMATION:

Permian

ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Tamarisk Anhydrite 977 Top of Salt 1,208 Base of Salt 4,491 Lamar 4,643	'
Base of Salt 4,491	•
	•
Lamar 4.643	•
	•
Bell Canyon 4,682	•
Cherry Canyon 5,574	•
Brushy Canyon 6,933	•
Bone Spring Lime 8,559	•
Leonard (Avalon) Shale 8,680	•
1st Bone Spring Sand 9,678	•
2nd Bone Spring Shale 9,887	•
2nd Bone Spring Sand 10,250	•
3rd Bone Spring Carb 10,721	•
3rd Bone Spring Sand 11,302	•
Wolfcamp 11,791	•
TD 11,760	•

ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0-400'	Fresh Water
Bell Canyon	4,682'	Oil
Cherry Canyon	5,574'	Oil
Brushy Canyon	6,933'	Oil
Leonard (Avalon) Shale	8,680'	Oil
1st Bone Spring Sand	9,678'	Oil
2nd Bone Spring Shale	9,887'	Oil
2nd Bone Spring Sand	10.250'	Oil



Break-test BOP & Offline Cementing:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of ECFR Title 43 Part 3172.6(b)(9)(iv) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 21 days.
- This test will be conducted for 5M rated hole intervals only.
- Each rig requesting the break-test variance is capable of picking up the BOP without damaging components using winches, following API Standard 53, Well Control Equipment Systems for Drilling Wells (Fifth edition, December 2018, Annex C. Table C.4) which recognizes break testing as an acceptable practice.
- Function tests will be performed on the following BOP elements:
 - Annular à during each full BOPE test
 - Upper Pipe Rams à On trip ins where FIT required
 - Blind Rams à Every trip
 - Lower Pipe Rams à during each full BOPE test
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the
 casing will be monitored via the valve on the TA cap as per standard batch drilling
 ops.

Blind Rams

Roadside Kill

Test plug

Break Test Diagram (HCR valve)

1. 2.

HCR

Testing this break

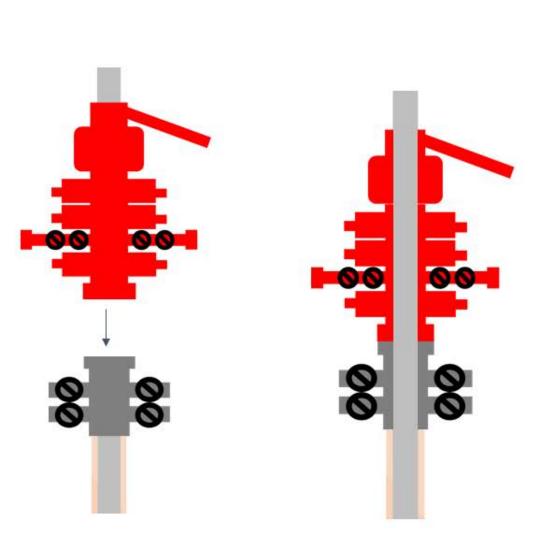
- 1. Set plug in wellhead (lower barrier)
- 2. Close Blind Rams (upper barrier)
- 3. Close roadside kill

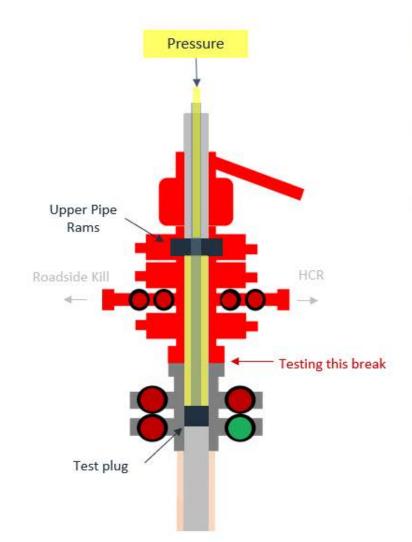
Steps

Pressure

- 4. Open HCR (pressure application)
- Open wellhead valves below test plug to ensure if leak past test plug, pressure won't be applied to wellbore
- Tie BOP testers high pressure line to main choke manifold crown valve
- 7. Pressure up to test break
- Bleed test pressure from BOP testing unit

Break Test Diagram (Test Joint)





Steps

- Set plug in with test joint wellhead (lower barrier)
- 2. Close Upper Pipe Rams (upper barrier)
- 3. Close roadside kill
- Close HCR
- Open wellhead valves below test plug to ensure if leak past test plug, pressure won't be applied to wellbore
- Tie BOP testers high pressure line to top of test joint
- 7. Pressure up to test break
- Bleed test pressure from BOP testing unit



2/24/2022

Cement Program

1. No changes to the cement program will take place for offline cementing.

Summarized Operational Procedure for Intermediate Casing

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment back pressure valves.
 - a. Float equipment is equipped with two back pressure valves rated to a minimum of 5,000 psi.
- 2. Land production casing on mandrel hanger through BOP.
 - a. If casing is unable to be landed with a mandrel hanger, then the casing will be cemented online.
- 3. Break circulation and confirm no restrictions.
 - a. Ensure no blockage of float equipment and appropriate annular returns.
 - b. Perform flow check to confirm well is static.
- 4. Set pack-off
 - a. If utilizing a fluted/ported mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid, remove landing joint, and set annular packoff through BOP. Pressure test to 5,000 psi for 10 min.
 - b. If utilizing a solid mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid. Pressure test seals to 5,000 psi for 10 min. Remove landing joint through BOP.
- 5. After confirmation of both annular barriers and the two casing barriers, install TA plug and pressure test to 5,000 psi for 10 min. Notify the BLM with intent to proceed with nipple down and offline cementing.
 - a. Minimum 4 hrs notice.
- 6. With the well secured and BLM notified, nipple down BOP and secure on hydraulic carrier or cradle.
 - a. Note, if any of the barriers fail to test, the BOP stack will not be nippled down until after the cement job has concluded and both lead and tail slurry have reached 500 psi.
- 7. Skid/Walk rig off current well.
- 8. Confirm well is static before removing TA Plug.
 - a. Cementing operations will not proceed until well is under control. (If well is not static, notify BLM and proceed to kill)
 - b. Casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing.
 - c. Well control plan can be seen in Section B, Well Control Procedures.
 - d. If need be, rig can be moved back over well and BOP nippled back up for any further remediation.



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- e. Diagram for rig positioning relative to offline cementing can be seen in Figure 4.
- 9. Rig up return lines to take returns from wellhead to pits and rig choke.
 - a. Test all connections and lines from wellhead to choke manifold to 5,000 psi high for 10 min.
 - b. If either test fails, perform corrections and retest before proceeding.
 - c. Return line schematics can be seen in Figure 3.
- 10. Remove TA Plug from the casing.
- 11. Install offline cement tool.
 - a. Current offline cement tool schematics can be seen in Figure 1 (Cameron) and Figure 2 (Cactus).
- 12. Rig up cement head and cementing lines.
 - a. Pressure test cement lines against cement head to 80% of casing burst for 10 min.
- 13. Break circulation on well to confirm no restrictions.
 - a. If gas is present on circulation, well will be shut in and returns rerouted through gas buster.
 - b. Max anticipated time before circulating with cement truck is 6 hrs.
- 14. Pump cement job as per plan.
 - a. At plug bump, test casing to 0.22 psi/ft or 1500 psi, whichever is greater.
 - b. If plug does not bump on calculated, shut down and wait 8 hrs or 500 psi compressive strength, whichever is greater before testing casing.
- 15. Confirm well is static and floats are holding after cement job.
 - a. With floats holding and backside static:
 - i. Remove cement head.
 - b. If floats are leaking:
 - i. Shut-in well and WOC (Wait on Cement) until tail slurry reaches 500 psi compressive strength and the casing is static prior to removing cement head.
 - c. If there is flow on the backside:
 - i. Shut in well and WOC until tail slurry reaches 500 psi compressive strength. Ensure that the casing is static prior to removing cement head.
- 16. Remove offline cement tool.
- 17. Install night cap with pressure gauge for monitoring.
- 18. Test night cap to 5,000 psi for 10 min.



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Example Well Control Plan Content

A. Well Control Component Table

The table below, which covers the cementing of the <u>5M MASP (Maximum Allowable Surface Pressure) portion of the well</u>, outlines the well control component rating in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the BOP nippled up to the wellhead.

Intermediate hole section, 5M requirement

Component	RWP
Pack-off	10M
Casing Wellhead Valves	10M
Annular Wellhead Valves	5M
TA Plug	10M
Float Valves	5M
2" 1502 Lo-Torque Valves	15M

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while circulating and cementing through the Offline Cement Adapter.

General Procedure While Circulating

- 1. Sound alarm (alert crew).
- 2. Shut down pumps.
- 3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 4. Confirm shut-in.
- 5. Notify tool pusher/company representative.

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- 6. Read and record the following:
 - a. SICP (Shut in Casing Pressure) and AP (Annular Pressure)
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan to continue circulating out kick via rig choke and mud/gas separator. Circulate and adjust mud density as needed to control well.

General Procedure While Cementing

- 1. Sound alarm (alert crew).
- 2. Shut down pumps.
- 3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 4. Confirm shut-in.
- 5. Notify tool pusher/company representative.
- 6. Open rig choke and begin pumping again taking returns through choke manifold and mud/gas separator.
- 7. Continue to place cement until plug bumps.
- 8. At plug bump close rig choke and cement head.
- 9. Read and record the following
 - a. SICP and AP
 - b. Pit gain
 - c. Time
 - d. Shut-in annulus valves on wellhead

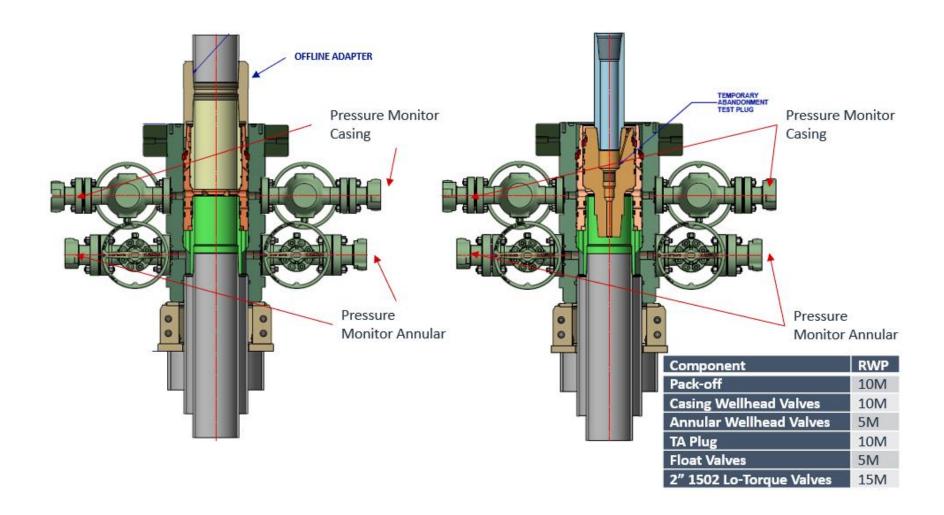
General Procedure After Cementing

- 1. Sound alarm (alert crew).
- 2. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 3. Confirm shut-in.
- 4. Notify tool pusher/company representative.
- 5. Read and record the following:
 - a. SICP and AP
 - b. Pit gain
 - c. Time
 - d. Shut-in annulus valves on wellhead



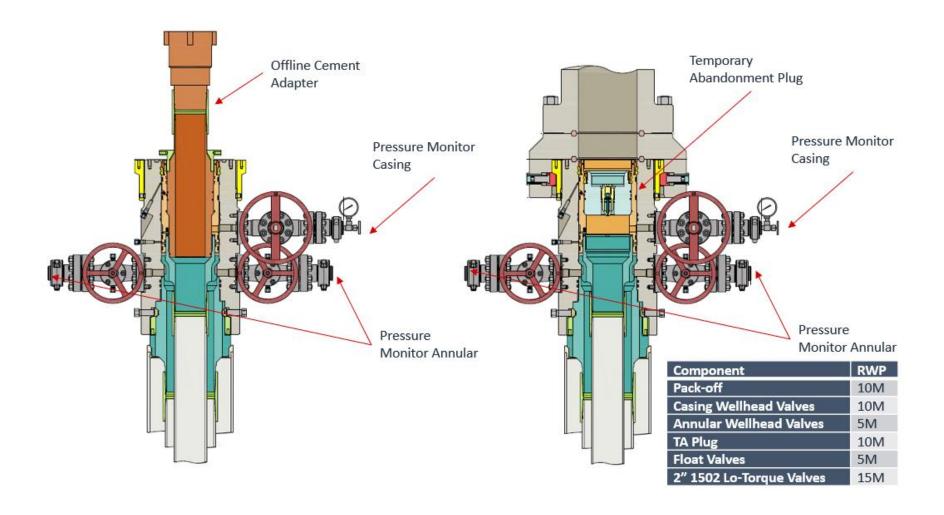
2/24/2022

Figure 1: Cameron TA Plug and Offline Adapter Schematic



2/24/2022

Figure 2: Cactus TA Plug and Offline Adapter Schematic

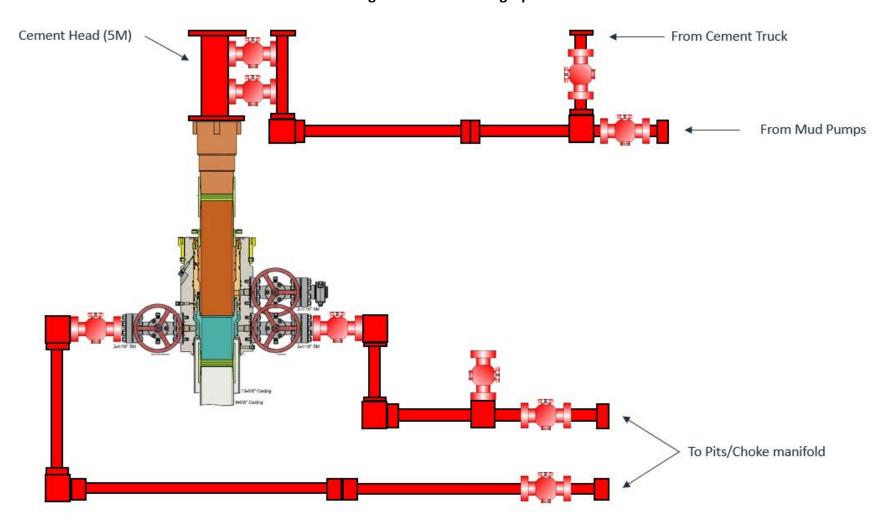


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2/24/2022

Figure 3: Back Yard Rig Up



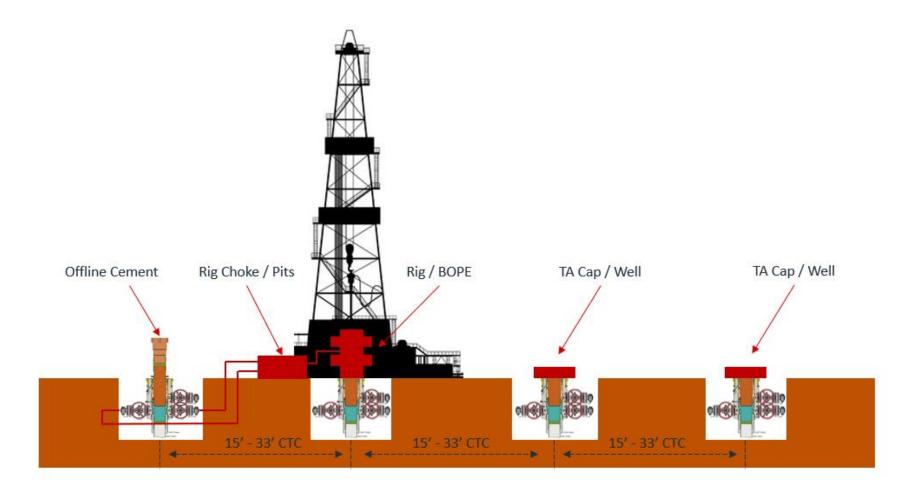
*** All Lines 10M rated working pressure

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2/24/2022

Figure 4: Rig Placement Diagram



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Midland

Lea County, NM (NAD 83 NME) Modelo 10 Fed Com #603H

OH

Plan: Plan #0.1 RT

Standard Planning Report

25 August, 2023



Planning Report

Database: PEDM
Company: Midlan

Company: Midland
Project: Lea Cou

Project: Lea County, NM (NAD 83 NME)
Site: Modelo 10 Fed Com

Well: #603H Wellbore: 0H

Design: Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #603H

kb = 26' @ 3668.0usft kb = 26' @ 3668.0usft

Grid

Minimum Curvature

Project Lea County, NM (NAD 83 NME)

Map System:US State Plane 1983Geo Datum:North American Datum 1983Map Zone:New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site Modelo 10 Fed Com

 Site Position:
 Northing:
 451,286.00 usft
 Latitude:
 32° 14′ 19.830 N

 From:
 Map
 Easting:
 750,991.00 usft
 Longitude:
 103° 39′ 18.896 W

Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 "

Well #603H

Well Position +N/-S 0.0 usft Northing: 450,972.00 usft Latitude: 32° 14' 16.825 N +E/-W 0.0 usft Easting: 749,356.00 usft Longitude: 103° 39' 37.955 W **Position Uncertainty** 0.0 usft Wellhead Elevation: usft **Ground Level:** 3,642.0 usft

Grid Convergence: 0.36 °

Wellbore OH

 Magnetics
 Model Name
 Sample Date
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 IGRF2020
 8/25/2023
 6.33
 59.83
 47,262.98987509

Design Plan #0.1 RT

Audit Notes:

Version:Phase:PLANTie On Depth:0.0

 Vertical Section:
 Depth From (TVD) (usft)
 +N/-S +E/-W (usft)
 Direction (usft)

 0.0
 0.0
 0.0
 176.25

Plan Survey Tool Program Date 8/25/2023

Depth From Depth To

(usft) (usft) Survey (Wellbore) Tool Name Remarks

1 0.0 19,366.3 Plan #0.1 RT (OH) EOG MWD+IFR1

MWD + IFR1



Planning Report

Database: PEDM

Company: Midland

Project: Lea County, NM (NAD 83 NME)
Site: Modelo 10 Fed Com

Well: #603H Wellbore: OH

Design: Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #603H

kb = 26' @ 3668.0usft kb = 26' @ 3668.0usft

Grid

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	
1,208.0	0.00	0.00	1,208.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,537.4	6.59	44.15	1,536.6	13.6	13.2	2.00	2.00	0.00	44.15	
6,638.8	6.59	44.15	6,604.4	433.4	420.8	0.00	0.00	0.00	0.00	
6,968.1	0.00	0.00	6,933.0	447.0	434.0	2.00	-2.00	0.00	180.00	
11,317.6	0.00	0.00	11,282.5	447.0	434.0	0.00	0.00	0.00	0.00	KOP(Modelo 10 Fed
11,538.1	26.46	178.85	11,495.2	397.0	435.0	12.00	12.00	81.13	178.85	FTP(Modelo 10 Fed
12,067.6	90.00	179.71	11,759.9	-30.4	439.1	12.00	12.00	0.16	0.95	
14,186.2	90.00	179.71	11,760.0	-2,149.0	450.0	0.00	0.00	0.00	0.00	Fed Perf 1(Modelo 1
16,829.2	90.00	179.60	11,760.0	-4,792.0	466.0	0.00	0.00	0.00	-87.68	Fed Perf 2(Modelo 1
19,366.3	90.00	179.72	11,760.0	-7,329.0	481.0	0.00	0.00	0.00	92.02	PBHL(Modelo 10 Fee

eog resources

Planning Report

Database: Company:

Project:

PEDM Midland

Lea County, NM (NAD 83 NME)

Modelo 10 Fed Com Site:

Well: #603H Wellbore: ОН

Plan #0.1 RT Design

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #603H

kb = 26' @ 3668.0usft kb = 26' @ 3668.0usft

Grid

Design:	Plan #0.1 RT								
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
900.0			900.0						
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
1,208.0	0.00	0.00	1,208.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	1.84	44.15	1,300.0	1.1	1.0	-1.0	2.00	2.00	0.00
1,400.0	3.84	44.15	1,399.9	4.6	4.5	-4.3	2.00	2.00	0.00
1,500.0	5.84	44.15	1,499.5	10.7	10.4	-10.0	2.00	2.00	0.00
1,537.4	6.59	44.15	1,536.6	13.6	13.2	-12.7	2.00	2.00	0.00
1,600.0	6.59	44.15	1,598.9	18.7	18.2	-17.5	0.00	0.00	0.00
1,700.0	6.59	44.15	1,698.2	27.0	26.2	-25.2	0.00	0.00	0.00
1,800.0	6.59	44.15	1,797.5	35.2	34.2	-32.9	0.00	0.00	0.00
1,900.0	6.59	44.15	1,896.9	43.4	42.2	-40.6	0.00	0.00	0.00
2,000.0	6.59	44.15	1,996.2	51.6	50.1	-48.3	0.00	0.00	0.00
2,100.0	6.59	44.15	2,095.6	59.9	58.1	-55.9	0.00	0.00	0.00
2,200.0	6.59	44.15	2,194.9	68.1	66.1	-63.6	0.00	0.00	0.00
2,300.0	6.59	44.15	2,294.2	76.3	74.1	-71.3	0.00	0.00	0.00
2,400.0	6.59	44.15	2,393.6	84.6	82.1	-79.0	0.00	0.00	0.00
2,500.0	6.59	44.15	2,492.9	92.8	90.1	-86.7	0.00	0.00	0.00
2,600.0	6.59	44.15	2,592.3	101.0	98.1	-94.4	0.00	0.00	0.00
2,700.0	6.59	44.15	2,691.6	109.3	106.1	-102.1	0.00	0.00	0.00
2,800.0	6.59	44.15	2,790.9	117.5	114.1	-109.8	0.00	0.00	0.00
2,900.0	6.59	44.15	2,890.3	125.7	122.1	-117.5	0.00	0.00	0.00
3,000.0	6.59	44.15	2,989.6	133.9	130.1	-125.1	0.00	0.00	0.00
3,100.0	6.59	44.15	3,089.0	142.2	138.0	-132.8	0.00	0.00	0.00
3,200.0	6.59	44.15	3,188.3	150.4	146.0	-140.5	0.00	0.00	0.00
3,300.0	6.59	44.15	3,287.6	158.6	154.0	-148.2	0.00	0.00	0.00
3,400.0	6.59	44.15	3,387.0	166.9	162.0	-155.9	0.00	0.00	0.00
3,500.0	6.59	44.15	3,486.3	175.1	170.0	-163.6	0.00	0.00	0.00
3,600.0	6.59	44.15	3,585.7	183.3	178.0	-171.3	0.00	0.00	0.00
3,700.0	6.59	44.15	3,685.0	191.6	186.0	-179.0	0.00	0.00	0.00
3,800.0	6.59	44.15	3,784.3	199.8	194.0	-186.7	0.00	0.00	0.00
3,900.0	6.59	44.15	3,883.7	208.0	202.0	-194.3	0.00	0.00	0.00
4,000.0	6.59	44.15	3,983.0	216.3	210.0	-202.0	0.00	0.00	0.00
4,100.0	6.59	44.15	4,082.4	224.5	218.0	-209.7	0.00	0.00	0.00
4,200.0	6.59	44.15	4,181.7	232.7	225.9	-217.4	0.00	0.00	0.00
4,300.0	6.59	44.15	4,281.0	240.9	233.9	-225.1	0.00	0.00	0.00
4,400.0	6.59	44.15	4,380.4	249.2	241.9	-232.8	0.00	0.00	0.00
4,500.0	6.59	44.15	4,479.7	257.4	249.9	-240.5	0.00	0.00	0.00
4,600.0	6.59	44.15	4,579.1	265.6	257.9	-248.2	0.00	0.00	0.00
4,700.0	6.59	44.15	4,678.4	273.9	265.9	-255.9	0.00	0.00	0.00
4,800.0	6.59	44.15	4,777.7	282.1	273.9	-263.6	0.00	0.00	0.00
4,900.0	6.59	44.15	4,877.1	290.3	281.9	-271.2	0.00	0.00	0.00
5,000.0	6.59	44.15	4,976.4	298.6	289.9	-278.9	0.00	0.00	0.00
5,100.0	6.59	44.15	5,075.8	306.8	297.9	-286.6	0.00	0.00	0.00
5,200.0	6.59	44.15	5,175.1	315.0	305.9	-294.3	0.00	0.00	0.00



Planning Report

Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Modelo 10 Fed Com

 Well:
 #603H

 Wellbore:
 OH

 Design:
 Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #603H

kb = 26' @ 3668.0usft kb = 26' @ 3668.0usft

Grid

sign:	Fidii #U. I Ki								
anned 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	6.59	44.15	5,274.4	323.2	313.8	-302.0	0.00	0.00	0.00
5,400.0	6.59	44.15	5,373.8	331.5	321.8	-309.7	0.00	0.00	0.00
5,500.0	6.59	44.15	5,473.1	339.7	329.8	-317.4	0.00	0.00	0.00
5,600.0	6.59	44.15	5,572.5	347.9	337.8	-325.1	0.00	0.00	0.00
5,700.0	6.59	44.15	5,671.8	356.2	345.8	-332.8	0.00	0.00	0.00
5,800.0	6.59	44.15	5,771.1	364.4	353.8	-340.4	0.00	0.00	0.00
F 000 0	0.50	44.45	E 070 E		204.0	240.4	0.00	0.00	0.00
5,900.0	6.59	44.15	5,870.5	372.6	361.8	-348.1	0.00	0.00	0.00
6,000.0	6.59	44.15	5,969.8	380.9	369.8	-355.8	0.00	0.00	0.00
6,100.0	6.59	44.15	6,069.2	389.1	377.8	-363.5	0.00	0.00	0.00
6,200.0	6.59	44.15	6,168.5	397.3	385.8	-371.2	0.00	0.00	0.00
6,300.0	6.59	44.15	6,267.8	405.5	393.8	-378.9	0.00	0.00	0.00
6,400.0	6.59	44.15	6,367.2	413.8	401.7	-386.6	0.00	0.00	0.00
6,500.0	6.59	44.15	6,466.5	422.0	409.7	-394.3	0.00	0.00	0.00
6,600.0	6.59	44.15	6,565.9	430.2	417.7	-402.0	0.00	0.00	0.00
6,638.8	6.59	44.15	6,604.4	433.4	420.8	-404.9	0.00	0.00	0.00
6,700.0	5.36	44.15	6,665.3	438.0	425.3	-409.2	2.00	-2.00	0.00
6,800.0	3.36	44.15	6,765.0	443.5	430.6	-414.3	2.00	-2.00	0.00
6,900.0	3.36 1.36	44.15 44.15	6,765.0 6,864.9	443.5 446.4	430.6	-414.3 -417.1	2.00	-2.00 -2.00	0.00
6,968.1	0.00	0.00	6,933.0	447.0	434.0	-417.1 -417.6	2.00	-2.00	0.00
				447.0	434.0	-417.6 -417.6		0.00	
7,000.0 7,100.0	0.00	0.00	6,964.9				0.00		0.00
7,100.0	0.00	0.00	7,064.9	447.0	434.0	-417.6	0.00	0.00	0.00
7,200.0	0.00	0.00	7,164.9	447.0	434.0	-417.6	0.00	0.00	0.00
7,300.0	0.00	0.00	7,264.9	447.0	434.0	-417.6	0.00	0.00	0.00
7,400.0	0.00	0.00	7,364.9	447.0	434.0	-417.6	0.00	0.00	0.00
7,500.0	0.00	0.00	7,464.9	447.0	434.0	-417.6	0.00	0.00	0.00
7,600.0	0.00	0.00	7,564.9	447.0	434.0	-417.6	0.00	0.00	0.00
7,700.0	0.00	0.00	7,664.9	447.0	434.0	-417.6	0.00	0.00	0.00
7,800.0	0.00	0.00	7,764.9	447.0	434.0	-417.6	0.00	0.00	0.00
7,900.0	0.00	0.00	7,864.9	447.0	434.0	-417.6	0.00	0.00	0.00
8,000.0	0.00	0.00	7,964.9	447.0	434.0	-417.6	0.00	0.00	0.00
8,100.0	0.00	0.00	8,064.9	447.0	434.0	-417.6	0.00	0.00	0.00
8,200.0	0.00	0.00	8,164.9	447.0	434.0	-417.6	0.00	0.00	0.00
8,300.0	0.00	0.00	8,264.9	447.0	434.0	-417.6 -417.6	0.00	0.00	0.00
8,400.0	0.00	0.00	8,364.9	447.0 447.0	434.0	-417.6 -417.6	0.00	0.00	0.00
8,500.0	0.00	0.00	8,464.9	447.0	434.0	-417.6 -417.6	0.00	0.00	0.00
8,600.0	0.00	0.00	8,564.9	447.0	434.0	-417.6 -417.6	0.00	0.00	0.00
8,700.0	0.00	0.00	8,664.9	447.0	434.0	-417.6	0.00	0.00	0.00
8,800.0	0.00	0.00	8,764.9	447.0	434.0	-417.6	0.00	0.00	0.00
8,900.0	0.00	0.00	8,864.9	447.0	434.0	-417.6	0.00	0.00	0.00
9,000.0	0.00	0.00	8,964.9	447.0	434.0	-417.6	0.00	0.00	0.00
9,100.0	0.00	0.00	9,064.9	447.0	434.0	-417.6	0.00	0.00	0.00
9.200.0	0.00	0.00	9,164.9	447.0	434.0	-417.6	0.00	0.00	0.00
9,300.0	0.00	0.00	9,264.9	447.0	434.0	-417.6	0.00	0.00	0.00
9,400.0	0.00	0.00	9,364.9	447.0	434.0	-417.6	0.00	0.00	0.00
9,500.0	0.00	0.00	9,464.9	447.0	434.0	-417.6	0.00	0.00	0.00
9,600.0	0.00	0.00	9,564.9	447.0	434.0	-417.6	0.00	0.00	0.00
9,700.0	0.00	0.00	9,664.9	447.0	434.0	-417.6	0.00	0.00	0.00
9,800.0	0.00	0.00	9,764.9	447.0	434.0	-417.6	0.00	0.00	0.00
9,900.0	0.00	0.00	9,864.9	447.0	434.0	-417.6	0.00	0.00	0.00
10,000.0	0.00	0.00	9,964.9	447.0	434.0	-417.6	0.00	0.00	0.00
10,100.0	0.00	0.00	10,064.9	447.0	434.0	-417.6	0.00	0.00	0.00
10,200.0	0.00	0.00	10,164.9	447.0	434.0	-417.6	0.00	0.00	0.00
10,300.0	0.00	0.00	10,264.9	447.0	434.0	-417.6	0.00	0.00	0.00
10,400.0	0.00	0.00	10,364.9	447.0	434.0	-417.6	0.00	0.00	0.00

eog resources

Planning Report

Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Modelo 10 Fed Com

 Well:
 #603H

 Wellbore:
 OH

 Design:
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Survey Calculation Method:

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kb = 26' @ 3668.0usft kb = 26' @ 3668.0usft

Grid

	Plan #0.1 RT												
lanned 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)				
10,500.0	0.00	0.00	10,464.9	447.0	434.0	-417.6	0.00	0.00	0.00				
10,600.0	0.00	0.00	10,564.9	447.0	434.0	-417.6	0.00	0.00	0.00				
10,700.0	0.00	0.00	10,664.9	447.0	434.0	-417.6	0.00	0.00	0.00				
10,800.0	0.00	0.00	10,764.9	447.0	434.0	-417.6	0.00	0.00	0.00				
10,900.0	0.00	0.00	10,864.9	447.0	434.0	-417.6	0.00	0.00	0.00				
11,000.0	0.00	0.00	10,964.9	447.0	434.0	-417.6	0.00	0.00	0.00				
11,100.0	0.00	0.00	11,064.9	447.0	434.0	-417.6	0.00	0.00	0.00				
11,200.0	0.00	0.00	11,164.9	447.0	434.0	-417.6	0.00	0.00	0.00				
11,300.0	0.00	0.00	11,264.9	447.0	434.0	-417.6	0.00	0.00	0.00				
11,317.6	0.00	0.00	11,282.5	447.0	434.0	-417.6	0.00	0.00	0.00				
11,325.0	0.89	178.85	11,289.9	446.9	434.0	-417.6	12.00	12.00	0.00				
11,350.0	3.89	178.85	11,314.8	445.9	434.0	-416.5	12.00	12.00	0.00				
11,375.0	6.89	178.85	11,339.7	443.6	434.1	-414.2	12.00	12.00	0.00				
11,400.0	9.89	178.85	11,364.5	439.9	434.1	-410.5	12.00	12.00	0.00				
11,425.0	12.89	178.85	11,389.0	435.0	434.2	-405.6	12.00	12.00	0.00				
11,450.0	15.89	178.85	11,413.2	428.8	434.4	-399.4	12.00	12.00	0.00				
11,475.0	18.89	178.85	11,437.0	421.3	434.5	-391.9	12.00	12.00	0.00				
11,500.0	21.89	178.85	11,460.5	412.6	434.7	-383.2	12.00	12.00	0.00				
11,525.0	24.89	178.85	11,483.4	402.7	434.9	-373.3	12.00	12.00	0.00				
11,538.1	26.46	178.85	11,495.2	397.0	435.0	-367.7	12.00	12.00	0.00				
11,550.0	27.89	178.91	11,505.8	391.6	435.1	-362.2	12.00	12.00	0.43				
11,575.0	30.89	179.00	11,527.6	379.3	435.3	-350.0	12.00	12.00	0.37				
11,600.0	33.89	179.08	11,548.7	365.9	435.6	-336.6	12.00	12.00	0.31				
11,625.0	36.89	179.14	11,569.1	351.4	435.8	-322.1	12.00	12.00	0.27				
11,650.0	39.89	179.20	11,588.7	335.9	436.0	-306.6	12.00	12.00	0.23				
11,675.0 11,700.0	42.89 45.89	179.25 179.30	11,607.4 11,625.3	319.4 301.9	436.2 436.5	-290.1 -272.7	12.00 12.00	12.00 12.00	0.20 0.18				
11,725.0	48.89	179.34	11,642.2	283.5	436.7	-254.3	12.00	12.00	0.16				
11,750.0	51.89	179.37	11,658.1	264.2	436.9	-235.1	12.00	12.00	0.15				
11,775.0	54.89	179.41	11,673.0	244.2	437.1	-215.0	12.00	12.00	0.14				
11,800.0 11,825.0	57.89 60.89	179.44 179.47	11,686.9 11,699.6	223.4 201.8	437.3 437.5	-194.2 -172.8	12.00 12.00	12.00 12.00	0.13 0.12				
11,850.0	63.89	179.50	11,711.2	179.7	437.7	-150.6	12.00	12.00	0.11				
11,875.0	66.89	179.53	11,721.6	157.0	437.9	-128.0	12.00	12.00	0.11				
11,900.0 11,925.0	69.89	179.55	11,730.8	133.7	438.1	-104.8	12.00	12.00 12.00	0.10				
11,925.0	72.89 75.89	179.58 179.60	11,738.8 11,745.5	110.0 86.0	438.3 438.4	-81.1 -57.1	12.00 12.00	12.00 12.00	0.10 0.10				
11,975.0	78.89	179.62	11,751.0	61.6	438.6	-32.7	12.00	12.00	0.09				
12,000.0	81.89	179.65	11,755.1	36.9	438.8	-8.1	12.00	12.00	0.09				
12,025.0 12,050.0	84.89 87.89	179.67 179.69	11,758.0 11,759.6	12.1 -12.9	438.9 439.1	16.7 41.6	12.00 12.00	12.00 12.00	0.09 0.09				
12,067.6	90.00	179.09	11,759.9	-30.4	439.1	59.1	12.00	12.00	0.09				
			•										
12,100.0	90.00	179.71	11,759.9	-62.8	439.3	91.5	0.00	0.00	0.00				
12,200.0 12,300.0	90.00 90.00	179.71 179.71	11,759.9 11,759.9	-162.8 -262.8	439.8 440.3	191.3 291.1	0.00 0.00	0.00 0.00	0.00 0.00				
12,300.0	90.00	179.71	11,759.9	-202.6 -362.8	440.3	390.9	0.00	0.00	0.00				
12,500.0	90.00	179.71	11,759.9	-462.8	441.4	490.8	0.00	0.00	0.00				
ŕ													
12,600.0 12,700.0	90.00 90.00	179.71 179.71	11,759.9 11,759.9	-562.8 -662.8	441.9 442.4	590.6 690.4	0.00 0.00	0.00 0.00	0.00 0.00				
12,700.0	90.00	179.71	11,759.9	-002.8 -762.8	442.4 442.9	790.2	0.00	0.00	0.00				
12,900.0	90.00	179.71	11,760.0	-862.8	442.9	890.0	0.00	0.00	0.00				
13,000.0	90.00	179.71	11,760.0	-962.8	443.9	989.8	0.00	0.00	0.00				
13,100.0 13,200.0	90.00 90.00	179.71 179.71	11,760.0 11,760.0	-1,062.8 -1,162.8	444.4 444.9	1,089.7 1,189.5	0.00 0.00	0.00 0.00	0.00 0.00				



Planning Report

Project:

PEDM Midland

Lea County, NM (NAD 83 NME)

Site: Modelo 10 Fed Com

Well: #603H Wellbore: OH

Design: Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #603H

kb = 26' @ 3668.0usft kb = 26' @ 3668.0usft

Grid

esign:	Plan #0.1 R1	T MAI ((V-1 13)												
lanned 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)					
13,300.0	90.00	179.71	11,760.0	-1,262.8	445.5	1,289.3	0.00	0.00	0.00					
13,400.0	90.00	179.71	11,760.0	-1,362.8	446.0	1,389.1	0.00	0.00	0.00					
13,500.0	90.00	179.71	11,760.0	-1,462.8	446.5	1,488.9	0.00	0.00	0.00					
13,600.0	90.00	179.71	11,760.0	-1,562.8	447.0	1,588.7	0.00	0.00	0.00					
13,700.0	90.00	179.71	11,760.0	-1,662.8	447.5	1,688.6	0.00	0.00	0.00					
13,800.0	90.00	179.71	11.760.0	-1,762.8	448.0	1,788.4	0.00	0.00	0.00					
13,900.0	90.00	179.71	11,760.0	-1,862.8	448.5	1,888.2	0.00	0.00	0.00					
14,000.0	90.00	179.71	11,760.0	-1,962.8	449.0	1,988.0	0.00	0.00	0.00					
14,100.0	90.00	179.71	11,760.0	-2,062.8	449.6	2,087.8	0.00	0.00	0.00					
14,186.2	90.00	179.71	11,760.0	-2,149.0	450.0	2,173.9	0.00	0.00	0.00					
14,200.0	90.00	179.71	11,760.0	-2,162.8	450.1	2,173.3	0.00	0.00	0.00					
	90.00							0.00	0.00					
14,300.0		179.70	11,760.0	-2,262.8	450.6	2,287.5	0.00							
14,400.0	90.00	179.70	11,760.0	-2,362.8	451.1	2,387.3	0.00	0.00	0.00					
14,500.0	90.00	179.69	11,760.0	-2,462.8	451.6	2,487.1	0.00	0.00	0.00					
14,600.0	90.00	179.69	11,760.0	-2,562.8	452.2	2,586.9	0.00	0.00	0.00					
14,700.0	90.00	179.69	11,760.0	-2,662.8	452.7	2,686.7	0.00	0.00	0.00					
14,800.0	90.00	179.68	11,760.0	-2,762.8	453.3	2,786.6	0.00	0.00	0.00					
14,900.0	90.00	179.68	11,760.0	-2,862.8	453.8	2,886.4	0.00	0.00	0.00					
15,000.0	90.00	179.67	11,760.0	-2,962.8	454.4	2,986.2	0.00	0.00	0.00					
15,100.0	90.00	179.67	11,760.0	-3,062.8	455.0	3,086.0	0.00	0.00	0.00					
15,200.0	90.00	179.67	11,760.0	-3,162.8	455.6	3,185.8	0.00	0.00	0.00					
15,300.0	90.00	179.66	11,760.0	-3,262.8	456.1	3,285.7	0.00	0.00	0.00					
15,400.0	90.00	179.66	11,760.0	-3,362.8	456.7	3,385.5	0.00	0.00	0.00					
15,500.0	90.00	179.65	11,760.0	-3,462.8	457.3	3,485.3	0.00	0.00	0.00					
15,600.0	90.00	179.65	11,760.0	-3,562.8	457.9	3,585.1	0.00	0.00	0.00					
15,700.0	90.00	179.65	11,760.0	-3,662.8	458.6	3,685.0	0.00	0.00	0.00					
15,800.0	90.00	179.64	11,760.0	-3,762.8	459.2	3,784.8	0.00	0.00	0.00					
15,900.0	90.00	179.64	11,760.0	-3,862.8	459.8	3,884.6	0.00	0.00	0.00					
16,000.0	90.00	179.63	11,760.0	-3,962.8	460.4	3,984.4	0.00	0.00	0.00					
16,100.0	90.00	179.63	11,760.0	-4,062.8	461.1	4,084.3	0.00	0.00	0.00					
16,200.0	90.00	179.63	11,760.0	-4,162.8	461.7	4,184.1	0.00	0.00	0.00					
16,300.0	90.00	179.62	11,760.0	-4,262.8	462.4	4,283.9	0.00	0.00	0.00					
16,400.0	90.00	179.62	11,760.0	-4,362.8	463.1	4,383.7	0.00	0.00	0.00					
16,500.0 16,600.0	90.00 90.00	179.61	11,760.0 11,760.0	-4,462.8 4.562.8	463.7 464.4	4,483.6 4,583.4	0.00 0.00	0.00 0.00	0.00					
		179.61 179.60	11,760.0	-4,562.8	464.4 465.1		0.00		0.00					
16,700.0	90.00	179.60		-4,662.8	465.1	4,683.2		0.00	0.00 0.00					
16,800.0 16,829.2	90.00 90.00	179.60 179.60	11,760.0 11,760.0	-4,762.8 -4,792.0	465.8 466.0	4,783.1 4,812.2	0.00 0.00	0.00 0.00	0.00					
10,029.2	90.00	179.00		-4,792.0	400.0	4,012.2	0.00	0.00	0.00					
16,900.0	90.00	179.60	11,760.0	-4,862.8	466.5	4,882.9	0.00	0.00	0.00					
17,000.0	90.00	179.61	11,760.0	-4,962.8	467.2	4,982.7	0.00	0.00	0.00					
17,100.0	90.00	179.61	11,760.0	-5,062.8	467.9	5,082.5	0.00	0.00	0.00					
17,200.0	90.00	179.62	11,760.0	-5,162.8	468.5	5,182.4	0.00	0.00	0.00					
17,300.0	90.00	179.62	11,760.0	-5,262.8	469.2	5,282.2	0.00	0.00	0.00					
17,400.0	90.00	179.63	11,760.0	-5,362.8	469.8	5,382.0	0.00	0.00	0.00					
17,500.0	90.00	179.63	11,760.0	-5,462.8	470.5	5,481.8	0.00	0.00	0.00					
17,600.0	90.00	179.64	11,760.0	-5,562.8	471.1	5,581.7	0.00	0.00	0.00					
17,700.0	90.00	179.64	11,760.0	-5,662.8	471.8	5,681.5	0.00	0.00	0.00					
17,800.0	90.00	179.65	11,760.0	-5,762.7	472.4	5,781.3	0.00	0.00	0.00					
17,900.0	90.00	179.65	11,760.0	-5,862.7	473.0	5,881.1	0.00	0.00	0.00					
18,000.0	90.00	179.66	11,760.0	-5,962.7	473.6	5,981.0	0.00	0.00	0.00					
18,100.0	90.00	179.66	11,760.0	-6,062.7	474.2	6,080.8	0.00	0.00	0.00					
18,200.0	90.00	179.67	11,760.0	-6,162.7	474.8	6,180.6	0.00	0.00	0.00					
18,300.0	90.00	179.67	11,760.0	-6,262.7	475.4	6,280.4	0.00	0.00	0.00					
18,400.0	90.00	179.68	11,760.0	-6,362.7	475.9	6,380.2	0.00	0.00	0.00					



Planning Report

Database: Company:

Project:

PEDM Midland

Lea County, NM (NAD 83 NME)

Site: Modelo 10 Fed Com

Well: #603H Wellbore: OH

Design: Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #603H

kb = 26' @ 3668.0usft

kb = 26' @ 3668.0usft Grid

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)
18,500.0	90.00	179.68	11,760.0	-6,462.7	476.5	6,480.1	0.00	0.00	0.00
18,600.0	90.00	179.69	11,760.0	-6,562.7	477.0	6,579.9	0.00	0.00	0.00
18,700.0	90.00	179.69	11,760.0	-6,662.7	477.6	6,679.7	0.00	0.00	0.00
18,800.0	90.00	179.70	11,760.0	-6,762.7	478.1	6,779.5	0.00	0.00	0.00
18,900.0	90.00	179.70	11,760.0	-6,862.7	478.7	6,879.3	0.00	0.00	0.00
19,000.0	90.00	179.70	11,760.0	-6,962.7	479.2	6,979.2	0.00	0.00	0.00
19,100.0	90.00	179.71	11,760.0	-7,062.7	479.7	7,079.0	0.00	0.00	0.00
19,200.0	90.00	179.71	11,760.0	-7,162.7	480.2	7,178.8	0.00	0.00	0.00
19,300.0	90.00	179.72	11,760.0	-7,262.7	480.7	7,278.6	0.00	0.00	0.00
19,366.3	90.00	179.72	11,760.0	-7,329.0	481.0	7,344.8	0.00	0.00	0.00

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(Modelo 10 Fed Co - plan hits target cent - Point	0.00 er	0.00	11,282.5	447.0	434.0	451,419.00	749,790.00	32° 14′ 21.221 N	103° 39' 32.869 W
FTP(Modelo 10 Fed Cor - plan hits target cent - Point	0.00 er	0.00	11,495.2	397.0	435.0	451,369.00	749,791.00	32° 14′ 20.726 N	103° 39' 32.861 W
PBHL(Modelo 10 Fed Co - plan hits target cent - Point	0.00 er	0.00	11,760.0	-7,329.0	481.0	443,643.00	749,837.00	32° 13' 4.272 N	103° 39' 32.890 W
Fed Perf 2(Modelo 10 Fe - plan hits target cent - Point	0.00 er	0.00	11,760.0	-4,792.0	466.0	446,180.00	749,822.00	32° 13' 29.377 N	103° 39' 32.880 W
Fed Perf 1(Modelo 10 Fe - plan hits target cent - Point	0.00 er	0.00	11,760.0	-2,149.0	450.0	448,823.00	749,806.00	32° 13' 55.532 N	103° 39' 32.873 W



T M

Azimuths to Grid North True North: -0.36° Magnetic North: 5.97°

Magnetic Field Strength: 47263.0nT Dip Angle: 59.83° Date: 8/25/2023 Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 5.97°
To convert a Magnetic Direction to a True Direction, Add 6.33° East
To convert a True Direction to a Grid Direction, Subtract 0.36°

Lea County, NM (NAD 83 NME)

Modelo 10 Fed Com #603H

Plan #0.1 RT

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: #603H

3642.0

3642.0 kb = 26' @ 3668.0usft

Northing Easting Latittude 450972.00 749356.00 32° 14' 16.825 N

Longitude 103° 39' 37.955 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	$0.0\overline{0}$	0.00	0.0		
2	1208.0	0.00	0.00	1208.0	0.0	0.0	0.00	0.00	0.0		
3	1537.4	6.59	44.15	1536.6	13.6	13.2	2.00	44.15	-12.7		
4	6638.8	6.59	44.15	6604.4	433.4	420.8	0.00	0.00	-404.9		
5	6968.1	0.00	0.00	6933.0	447.0	434.0	2.00	180.00	-417.6		
6	11317.6	0.00	0.00	11282.5	447.0	434.0	0.00	0.00	-417.6	KOP(Modelo 10 Fed Com #603H)	
7	11538.1	26.46	178.85	11495.2	397.0	435.0	12.00	178.85	-367.7	FTP(Modelo 10 Fed Com #603H)	
8	12067.6	90.00	179.71	11759.9	-30.4	439.1	12.00	0.95	59.1		
9	14186.2	90.00	179.71	11760.0	-2149.0	450.0	0.00	0.00	2173.9	Fed Perf 1(Modelo 10 Fed Com #603H)	
10	16829.2	90.00	179.60	11760.0	-4792.0	466.0	0.00	-87.68	4812.2	Fed Perf 2(Modelo 10 Fed Com #603H)	
11	19366.3	90.00	179.72	11760.0	-7329.0	481.0	0.00	92.02	7344.8	PBHL(Modelo 10 Fed Com #603H)	

CASING DETAILS

No casing data is available

1400

2100

5250-

11900

Released to Imaging: 10/27/2023 2:26:56 PM

+N/-S Northing **Easting** 447.0 KOP(Modelo 10 Fed Com #603H) 11282.5 451419.00 749790.00 FTP(Modelo 10 Fed Com #603H) 11495.2 451369.00 749791.00 Fed Perf 1(Modelo 10 Fed Com #603H) 11760.0 -2149.0 448823.00 749806.00 Fed Perf 2(Modelo 10 Fed Com #603H) -4792.0 11760.0 749822.00 PBHL(Modelo 10 Fed Com #603H) -7329.0 11760.0 443643.00 749837.00

Modelo 10 Fed Com/#603H/Plan #0.1 R7

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

-600 -900 -1200 -1500 -2100 -2400 -2700 -4500 -4800 -5400 -5700 -6000 **-7200** West(-)/East(+)

West(-)/East(+)

300-

2450 2800 3150 3500 3850 4200 4550 4900 5250 5600 5950 6300 6650 7000 7350

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 267268

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	267268
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	10/27/2023