

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.5. Lease Serial No. **NMNM119276**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator **EOG RESOURCES INCORPORATED**3a. Address **1111 BAGBY SKY LOBBY 2, HOUSTON, TX 770** 3b. Phone No. (include area code)
(713) 651-70004. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 10/T24S/R32E/NMP

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No. **MODELO 10 FED COM/602H**9. API Well No. **3002551093**10. Field and Pool or Exploratory Area
TRIST DRAW/BONE SPRING11. Country or Parish, State
LEA/NM**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

Modelo 10 Fed Com 716H (FKA 602H) API #: 30-025-51093

EOG respectfully requests an amendment to our approved APD for this well to reflect the following changes:

Change name from Modelo 10 Fed Com 602H to Modelo 10 Fed Com 716H.

Change BHL from T-24-S, R-32-E, Sec 15, 2538' FNL, 1580' FEL, Lea Co., NM, to T-24-S, R-32-E, Sec 15, 2537' FNL, 1150' FEL, Lea Co., N.M.

Change target formation to Wolfcamp Clastics Y.

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) CRAIG RICHARDSON / Ph: (432) 686-3600	Title Regulatory Specialist
Signature (Electronic Submission)	Date 08/29/2023

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by KEITH P IMMATTY / Ph: (575) 988-4722 / Approved	Title ENGINEER	Date 09/19/2023
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office 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)

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

**Modelo 10 Fed Com 716H****Revised Permit Information 08/01/2023:**

Well Name: Modelo 10 Fed Com 716H

Location: SHL: 478' FNL & 2030' FEL, Section 10, T-24-S, R-32-E, Lea Co., N.M.

BHL: 2537' FNL & 1150' FEL, Section 15, T-24-S, R-32-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval MD		Interval TVD		Csg OD	Weight	Grade	Conn
	From (ft)	To (ft)	From (ft)	To (ft)				
12.25"	0	1,000	0	1,000	9-5/8"	36#	J-55	LTC
8-3/4"	0	10,914	0	10,820	7-5/8"	29.7#	HCP-110	FXL
6-3/4"	0	10,414	0	10,320	5-1/2"	20#	P110-EC	DWC/C IS MS
6-3/4"	10,414	10,914	10,320	10,820	5-1/2"	20#	P110-EC	Vam Sprint SF
6-3/4"	10,914	19,567	10,820	11,905	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:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,000' 9-5/8"	210	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 0.25 lb/sk Cello-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' 7-5/8"	480	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% 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)
19,567' 5-1/2"	1530	13.2	1.41	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,320')

**Modelo 10 Fed Com 716H**

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' – 11,516'	Oil Base	8.7-9.4	58-68	N/c - 6
11,516' – 19,567' Lateral	Oil Base	10.0-14.0	58-68	4 - 6



Modelo 10 Fed Com 716H

TUBING REQUIREMENTS

EOG respectively requests an exception to the following NMOCD rule:

- 19.15.16.10 Casing AND TUBING REQUIREMENTS:
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.



Modelo 10 Fed Com 716H

478' FNL
2030' FEL
Section 10
T-24-S, R-32-E

Revised Wellbore

KB: 3666'
GL: 3641'

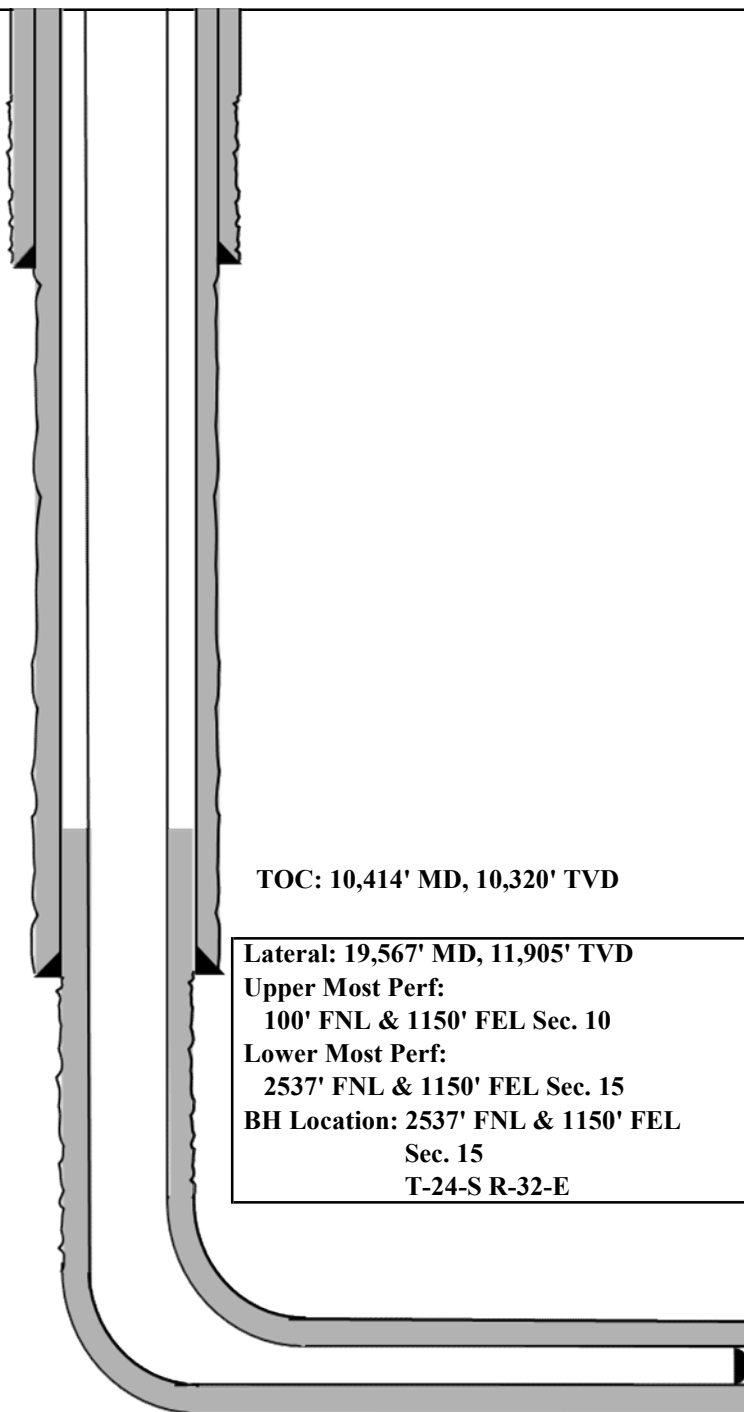
API: 30-025-51093

Bit Size: 12.25"
9-5/8", 36#, J-55, LTC,
@ 0' - 1,000'

Bit Size: 8-3/4"
7-5/8", 29.7#, HCP-110, FXL,
@ 0' - 10,914'

Bit Size: 6-3/4"
5-1/2", 20.#, P110-EC, DWC/C IS MS
@ 0' - 10,320'
5-1/2", 20.#, P110-EC, Vam Sprint SF
@ 10,320' - 10,820'
5-1/2", 20.#, P110-EC, DWC/C IS MS
@ 10,820' - 19,567'

KOP: 11,516' MD, 11,428' TVD
EOC: 12,266' MD, 11,905' TVD



TOC: 10,414' MD, 10,320' TVD

Lateral: 19,567' MD, 11,905' TVD
Upper Most Perf:
100' FNL & 1150' FEL Sec. 10
Lower Most Perf:
2537' FNL & 1150' FEL Sec. 15
BH Location: 2537' FNL & 1150' FEL
Sec. 15
T-24-S R-32-E



Modelo 10 Fed Com 716H

Design B**4. CASING PROGRAM**

Hole Size	Interval MD		Interval TVD		Csg OD	Weight	Grade	Conn
	From (ft)	To (ft)	From (ft)	To (ft)				
13"	0	1,000	0	1,000	10-3/4"	40.5#	J-55	STC
9-7/8"	0	10,914	0	10,820	8-3/4"	38.5#	P110-EC	SLIJ II NA
7-7/8"	0	19,567	0	11,905	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:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,000' 10-3/4"	270	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 0.25 lb/sk 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' 8-3/4"	550	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% 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)
19,567' 6"	1210	13.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,320')



Modelo 10 Fed Com 716H

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.



Modelo 10 Fed Com 716H

478' FNL
2030' FEL
Section 10
T-24-S, R-32-E

Proposed Wellbore

KB: 3666'
GL: 3641'

API: 30-025-51093

Bit Size: 13"
10-3/4", 40.5#, J-55, STC,
@ 0' - 1,000'

Bit Size: 9-7/8"
8-3/4" 38.5#, P110-EC, SLIJ II NA,
@ 0' - 10,914'

Bit Size: 7-7/8"
6", 22.3#, P110-EC, DWC/C IS,
@ 0' - 19,567'

TOC: 10,414' MD, 10,320' TVD

Lateral: 19,567' MD, 11,905' TVD
Upper Most Perf:
100' FNL & 1150' FEL Sec. 10
Lower Most Perf:
2537' FNL & 1150' FEL Sec. 15
BH Location: 2537' FNL & 1150' FEL
Sec. 15
T-24-S R-32-E

KOP: 11,516' MD, 11,428' TVD
EOC: 12,266' MD, 11,905' TVD



Modelo 10 Fed Com 716H

GEOLOGIC NAME OF SURFACE FORMATION:

Permian

ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	896'
Tamarisk Anhydrite	977'
Top of Salt	1,208'
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	11,905'

ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

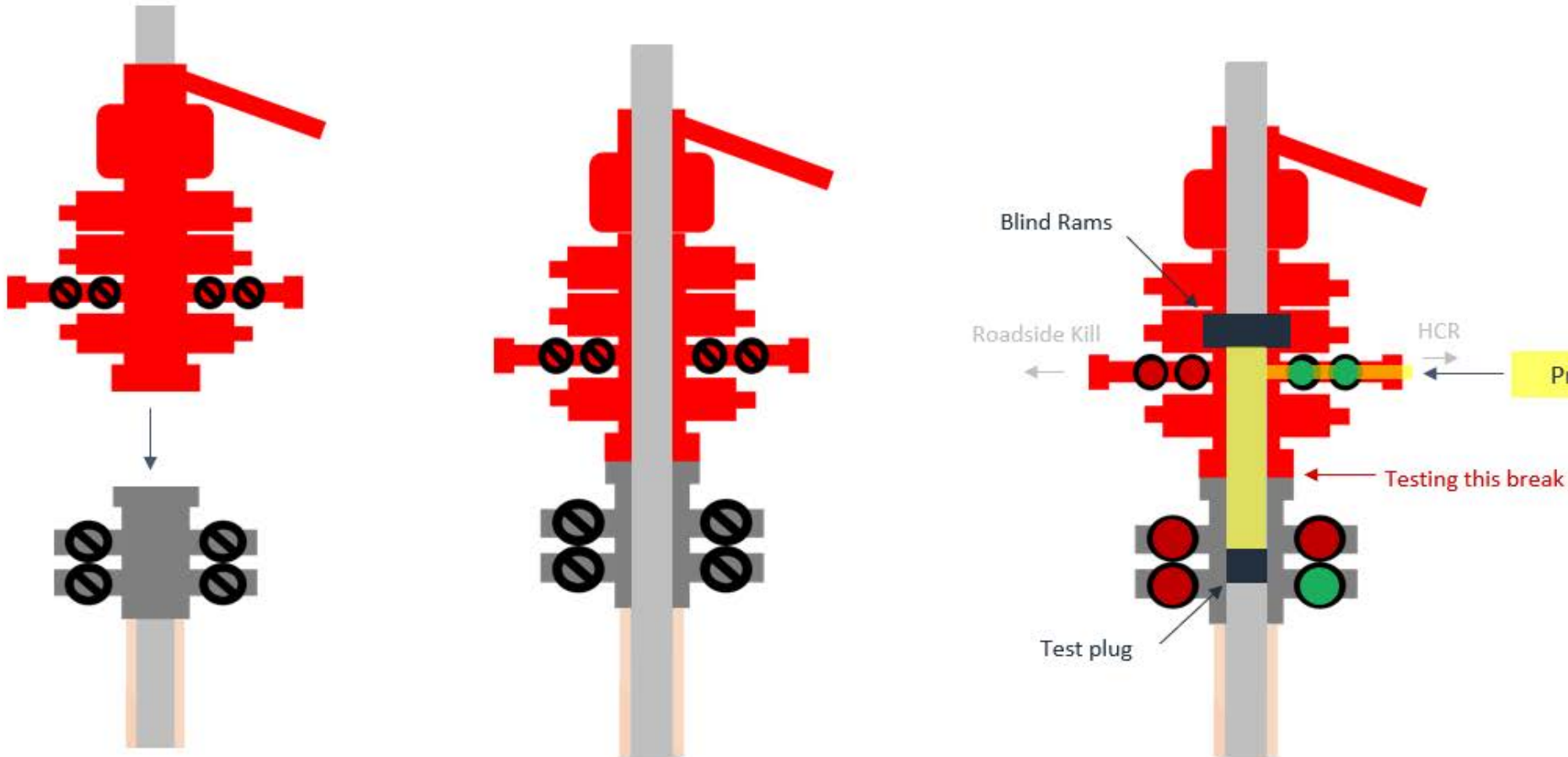
Upper Permian Sands	0- 400'	Fresh Water
Bell Canyon	4,682'	Oil
Cherry Canyon	5,574'	Oil
Brushy Canyon	6,933'	Oil
Leonard (Avalon) Shale	8,680'	Oil
1st Bone Spring Sand	9,678'	Oil
2nd Bone Spring Shale	9,887'	Oil
2nd Bone Spring Sand	10,250'	Oil

**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 ð during each full BOPE test
 - Upper Pipe Rams ð On trip ins where FIT required
 - Blind Rams ð Every trip
 - Lower Pipe Rams ð 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.

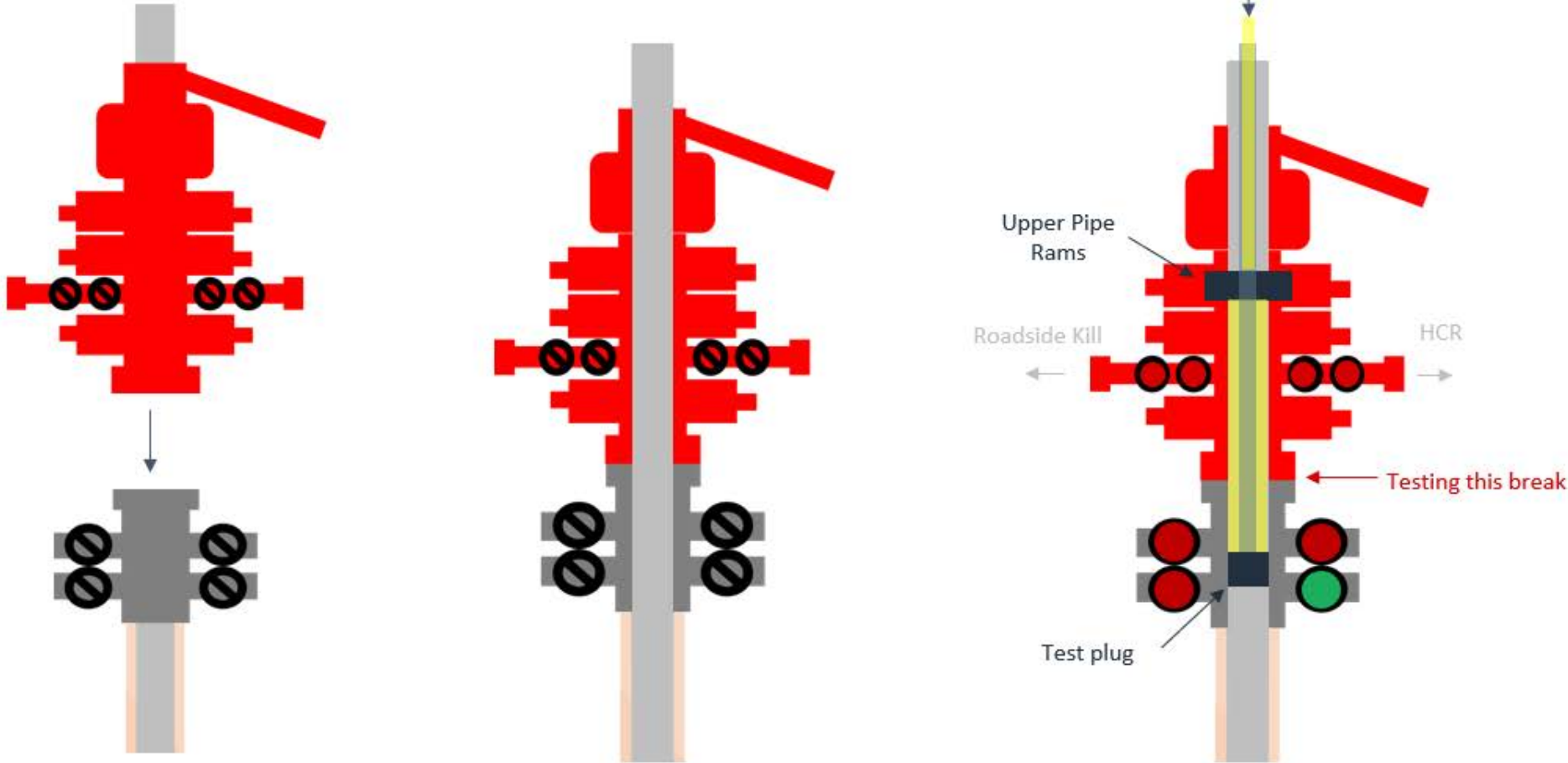
Break Test Diagram (HCR valve)



Steps

1. Set plug in wellhead (lower barrier)
2. Close Blind Rams (upper barrier)
3. Close roadside kill
4. Open HCR (pressure application)
5. Open wellhead valves below test plug to ensure if leak past test plug, pressure won't be applied to wellbore
6. Tie BOP testers high pressure line to main choke manifold crown valve
7. Pressure up to test break
8. Bleed test pressure from BOP testing unit

Break Test Diagram (Test Joint)



Steps

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



Offline Intermediate Cementing Procedure

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 nipped 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 nipped back up for any further remediation.



Offline Intermediate Cementing Procedure

2/24/2022

- 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.



Offline Intermediate Cementing Procedure

2/24/2022

Example Well Control Plan Content

A. Well Control Component Table

The table below, which covers the cementing of the **5M MASP (Maximum Allowable Surface Pressure) portion of the well**, 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 nipped 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.



Offline Intermediate Cementing Procedure

2/24/2022

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

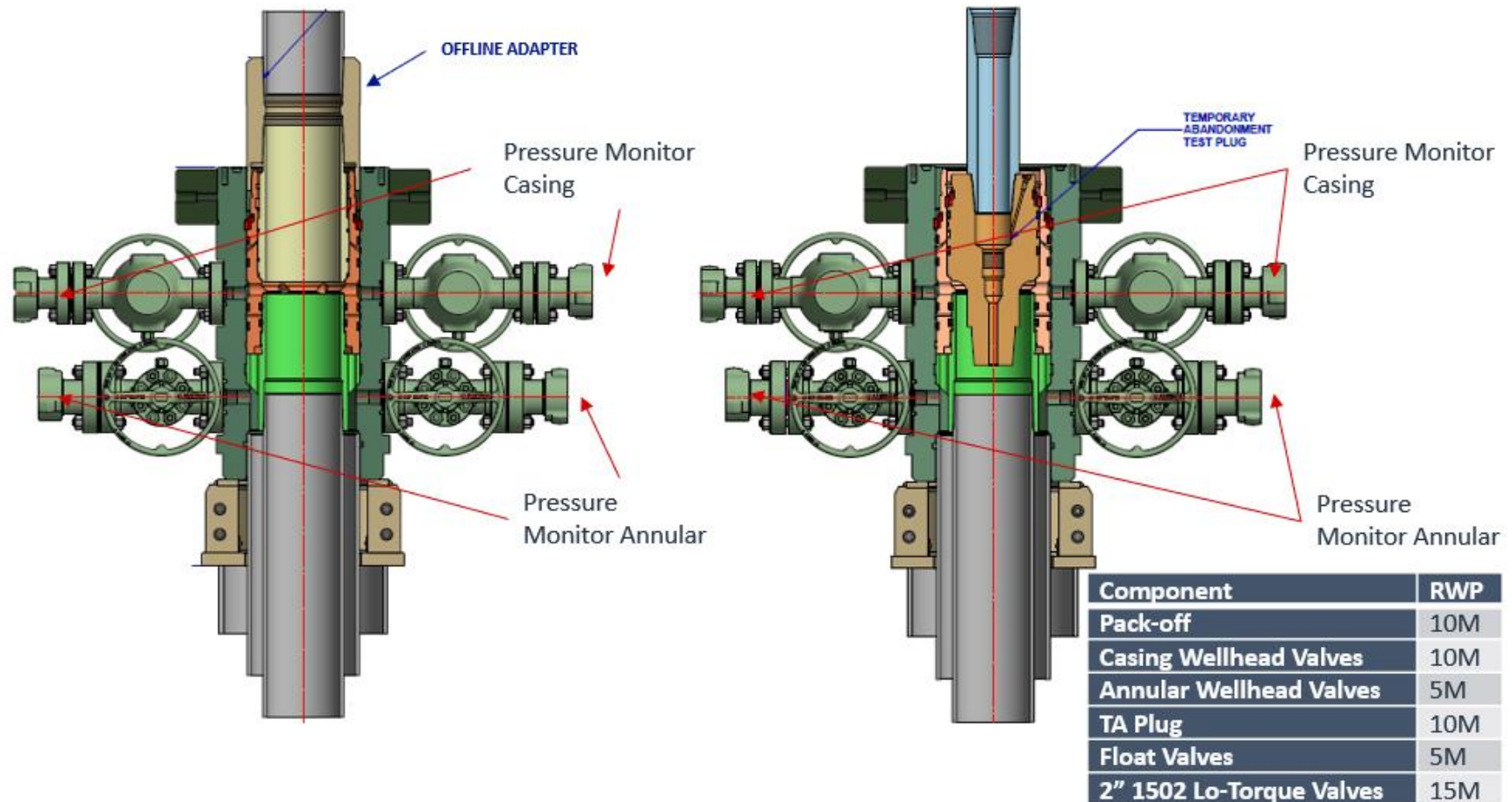
1. Sound alarm (alert crew).
2. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
3. Confirm shut-in.
4. Notify tool pusher/company representative.
5. Read and record the following:
 - a. SICP and AP
 - b. Pit gain
 - c. Time
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



Offline Intermediate Cementing Procedure

2/24/2022

Figure 1: Cameron TA Plug and Offline Adapter Schematic

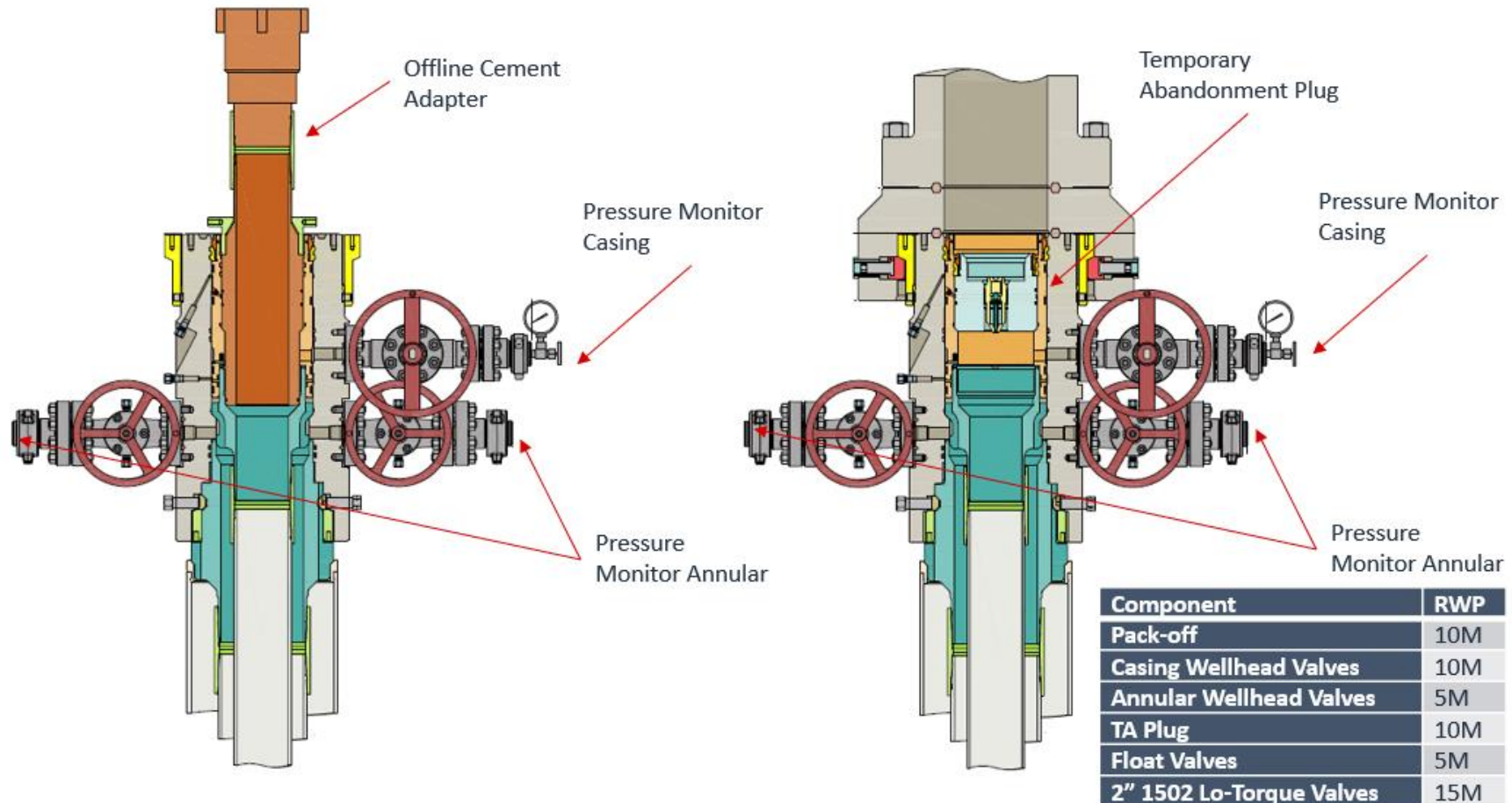




Offline Intermediate Cementing Procedure

2/24/2022

Figure 2: Cactus TA Plug and Offline Adapter Schematic

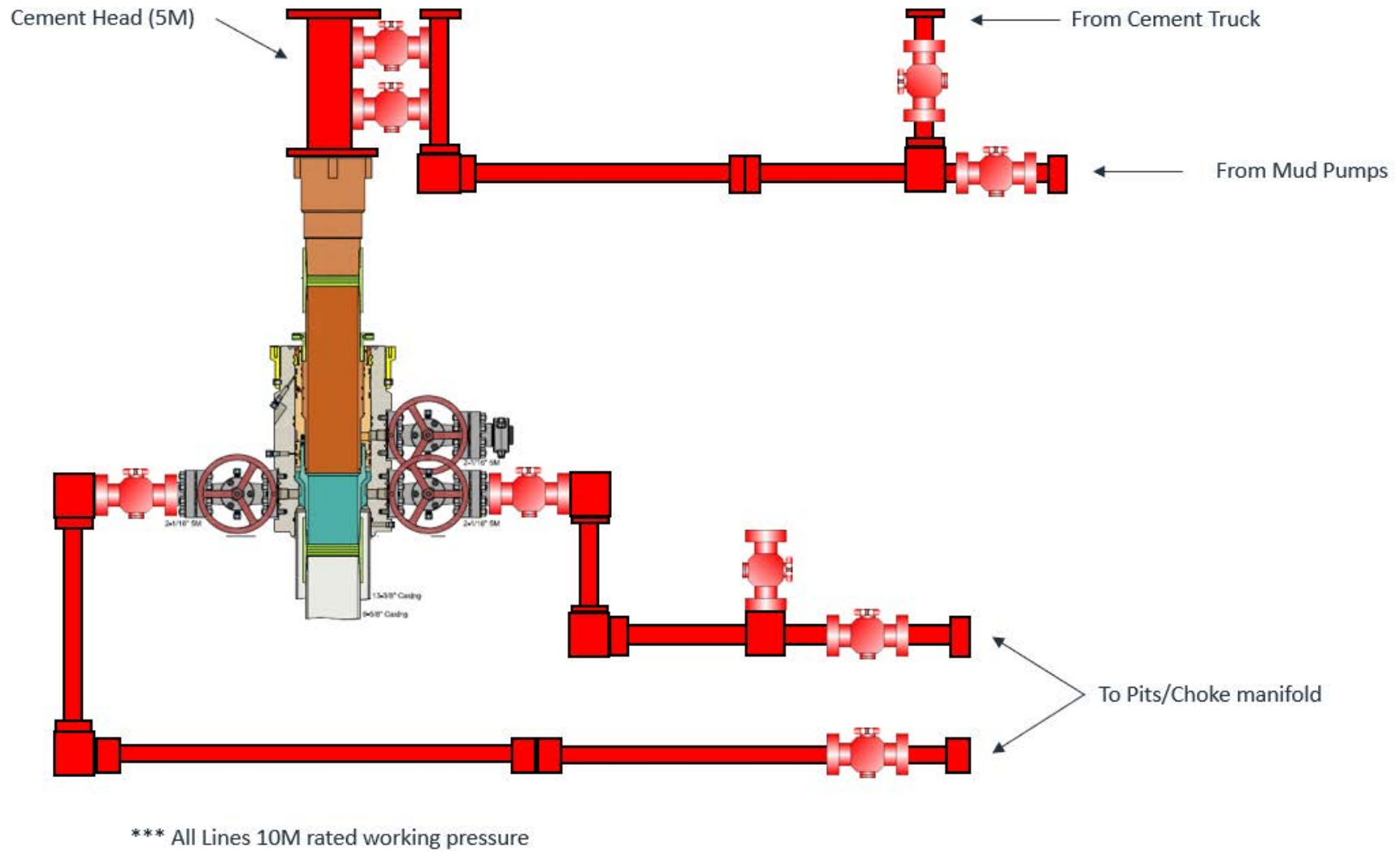




Offline Intermediate Cementing Procedure

2/24/2022

Figure 3: Back Yard Rig Up

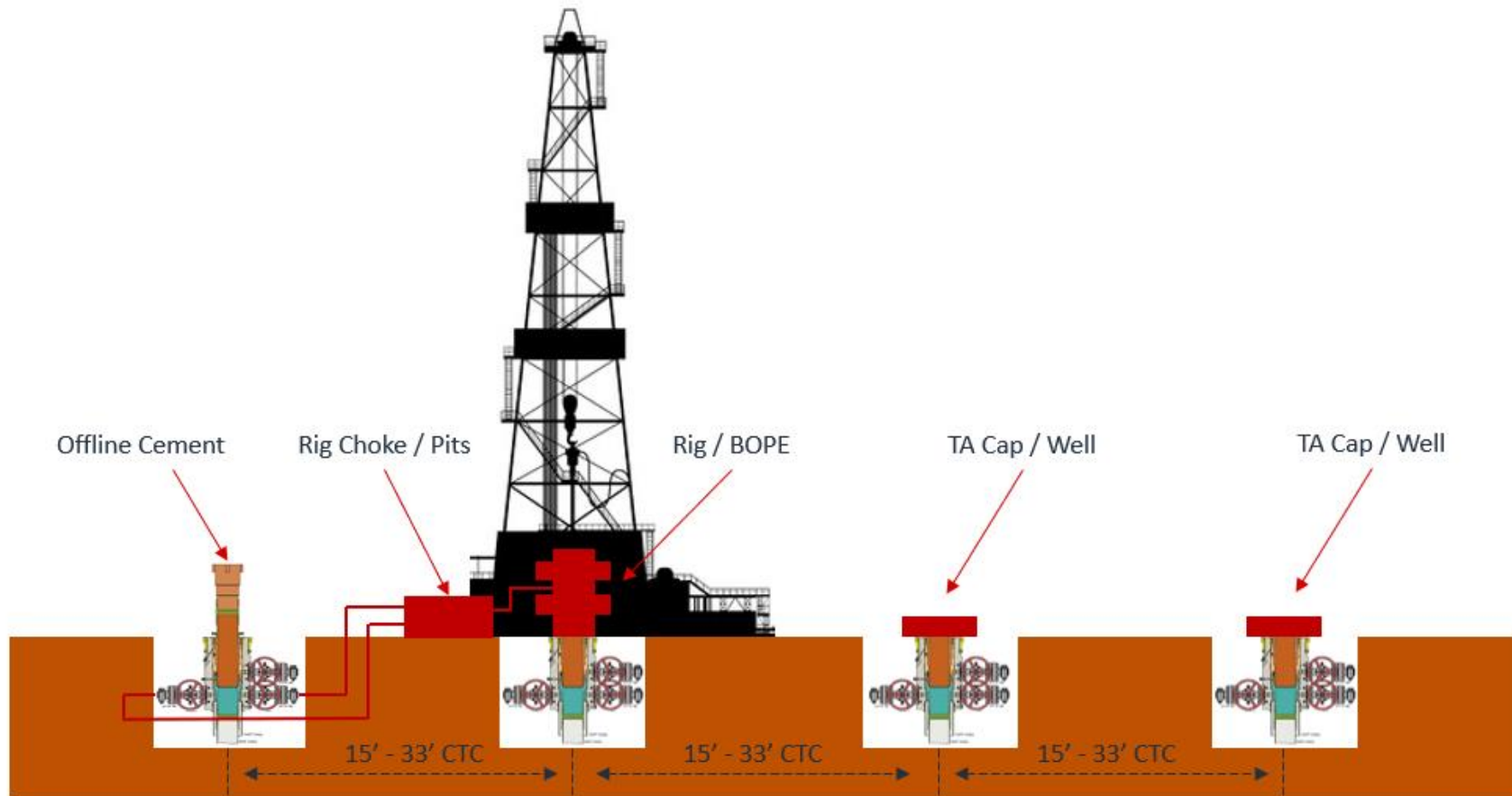




Offline Intermediate Cementing Procedure

2/24/2022

Figure 4: Rig Placement Diagram





Midland

Lea County, NM (NAD 83 NME)

Modelo 10 Fed Com

#716H

OH

Plan: Plan #0.1 RT

Standard Planning Report

24 August, 2023



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #716H
Company:	Midland	TVD Reference:	kb = 26' @ 3667.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3667.0usft
Site:	Modelo 10 Fed Com	North Reference:	Grid
Well:	#716H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

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

Site	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	#716H					
Well Position	+N/-S	0.0 usft	Northing:	450,985.00 usft	Latitude:	32° 14' 16.953 N
	+E/-W	0.0 usft	Easting:	749,363.00 usft	Longitude:	103° 39' 37.872 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,641.0 usft
Grid Convergence:	0.36 °					

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/24/2023	6.33	59.83	47,263.30644229

Design	Plan #0.1 RT				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	172.82	

Plan Survey Tool Program	Date	8/24/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	19,567.0	Plan #0.1 RT (OH)	EOG MWD+IFR1	
				MWD + IFR1	



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #716H
Company:	Midland	TVD Reference:	kb = 26' @ 3667.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3667.0usft
Site:	Modelo 10 Fed Com	North Reference:	Grid
Well:	#716H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

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	
1,743.5	10.71	63.36	1,740.4	22.4	44.6	2.00	2.00	0.00	63.36	
6,486.4	10.71	63.36	6,400.6	417.6	832.4	0.00	0.00	0.00	0.00	
7,021.8	0.00	0.00	6,933.0	440.0	877.0	2.00	-2.00	0.00	180.00	
11,516.3	0.00	0.00	11,427.5	440.0	877.0	0.00	0.00	0.00	0.00	KOP(Modelo 10 Fed C
11,736.8	26.46	178.85	11,640.2	390.0	878.0	12.00	12.00	81.13	178.85	FTP(Modelo 10 Fed C
12,266.3	90.00	179.71	11,904.9	-37.4	882.1	12.00	12.00	0.16	0.95	
14,385.9	90.00	179.71	11,905.0	-2,157.0	893.0	0.00	0.00	0.00	0.00	Fed Perf 1(Modelo 10
17,029.9	90.00	179.60	11,905.0	-4,801.0	909.0	0.00	0.00	0.00	-87.68	Fed Perf 2(Modelo 10
19,567.0	90.00	179.72	11,905.0	-7,338.0	924.0	0.00	0.00	0.00	92.02	PBHL(Modelo 10 Fed



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #716H
Company:	Midland	TVD Reference:	kb = 26' @ 3667.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3667.0usft
Site:	Modelo 10 Fed Com	North Reference:	Grid
Well:	#716H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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
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	63.36	1,300.0	0.7	1.3	-0.5	2.00	2.00	0.00
1,400.0	3.84	63.36	1,399.9	2.9	5.7	-2.1	2.00	2.00	0.00
1,500.0	5.84	63.36	1,499.5	6.7	13.3	-5.0	2.00	2.00	0.00
1,600.0	7.84	63.36	1,598.8	12.0	23.9	-8.9	2.00	2.00	0.00
1,700.0	9.84	63.36	1,697.6	18.9	37.7	-14.0	2.00	2.00	0.00
1,743.5	10.71	63.36	1,740.4	22.4	44.6	-16.6	2.00	2.00	0.00
1,800.0	10.71	63.36	1,795.9	27.1	54.0	-20.1	0.00	0.00	0.00
1,900.0	10.71	63.36	1,894.2	35.4	70.6	-26.3	0.00	0.00	0.00
2,000.0	10.71	63.36	1,992.4	43.8	87.2	-32.5	0.00	0.00	0.00
2,100.0	10.71	63.36	2,090.7	52.1	103.8	-38.7	0.00	0.00	0.00
2,200.0	10.71	63.36	2,188.9	60.4	120.4	-44.9	0.00	0.00	0.00
2,300.0	10.71	63.36	2,287.2	68.8	137.0	-51.1	0.00	0.00	0.00
2,400.0	10.71	63.36	2,385.5	77.1	153.6	-57.3	0.00	0.00	0.00
2,500.0	10.71	63.36	2,483.7	85.4	170.3	-63.5	0.00	0.00	0.00
2,600.0	10.71	63.36	2,582.0	93.8	186.9	-69.7	0.00	0.00	0.00
2,700.0	10.71	63.36	2,680.2	102.1	203.5	-75.9	0.00	0.00	0.00
2,800.0	10.71	63.36	2,778.5	110.4	220.1	-82.1	0.00	0.00	0.00
2,900.0	10.71	63.36	2,876.7	118.8	236.7	-88.3	0.00	0.00	0.00
3,000.0	10.71	63.36	2,975.0	127.1	253.3	-94.4	0.00	0.00	0.00
3,100.0	10.71	63.36	3,073.3	135.4	269.9	-100.6	0.00	0.00	0.00
3,200.0	10.71	63.36	3,171.5	143.8	286.5	-106.8	0.00	0.00	0.00
3,300.0	10.71	63.36	3,269.8	152.1	303.1	-113.0	0.00	0.00	0.00
3,400.0	10.71	63.36	3,368.0	160.4	319.8	-119.2	0.00	0.00	0.00
3,500.0	10.71	63.36	3,466.3	168.8	336.4	-125.4	0.00	0.00	0.00
3,600.0	10.71	63.36	3,564.5	177.1	353.0	-131.6	0.00	0.00	0.00
3,700.0	10.71	63.36	3,662.8	185.4	369.6	-137.8	0.00	0.00	0.00
3,800.0	10.71	63.36	3,761.1	193.8	386.2	-144.0	0.00	0.00	0.00
3,900.0	10.71	63.36	3,859.3	202.1	402.8	-150.2	0.00	0.00	0.00
4,000.0	10.71	63.36	3,957.6	210.4	419.4	-156.4	0.00	0.00	0.00
4,100.0	10.71	63.36	4,055.8	218.8	436.0	-162.6	0.00	0.00	0.00
4,200.0	10.71	63.36	4,154.1	227.1	452.6	-168.8	0.00	0.00	0.00
4,300.0	10.71	63.36	4,252.4	235.4	469.2	-175.0	0.00	0.00	0.00
4,400.0	10.71	63.36	4,350.6	243.8	485.9	-181.1	0.00	0.00	0.00
4,500.0	10.71	63.36	4,448.9	252.1	502.5	-187.3	0.00	0.00	0.00
4,600.0	10.71	63.36	4,547.1	260.4	519.1	-193.5	0.00	0.00	0.00
4,700.0	10.71	63.36	4,645.4	268.8	535.7	-199.7	0.00	0.00	0.00
4,800.0	10.71	63.36	4,743.6	277.1	552.3	-205.9	0.00	0.00	0.00
4,900.0	10.71	63.36	4,841.9	285.4	568.9	-212.1	0.00	0.00	0.00
5,000.0	10.71	63.36	4,940.2	293.8	585.5	-218.3	0.00	0.00	0.00
5,100.0	10.71	63.36	5,038.4	302.1	602.1	-224.5	0.00	0.00	0.00
5,200.0	10.71	63.36	5,136.7	310.4	618.7	-230.7	0.00	0.00	0.00



Planning Report

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Site:	Modelo 10 Fed Com	North Reference:	Grid
Well:	#716H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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)	
5,300.0	10.71	63.36	5,234.9	318.8	635.3	-236.9	0.00	0.00	0.00	
5,400.0	10.71	63.36	5,333.2	327.1	652.0	-243.1	0.00	0.00	0.00	
5,500.0	10.71	63.36	5,431.5	335.4	668.6	-249.3	0.00	0.00	0.00	
5,600.0	10.71	63.36	5,529.7	343.8	685.2	-255.5	0.00	0.00	0.00	
5,700.0	10.71	63.36	5,628.0	352.1	701.8	-261.7	0.00	0.00	0.00	
5,800.0	10.71	63.36	5,726.2	360.4	718.4	-267.9	0.00	0.00	0.00	
5,900.0	10.71	63.36	5,824.5	368.8	735.0	-274.0	0.00	0.00	0.00	
6,000.0	10.71	63.36	5,922.7	377.1	751.6	-280.2	0.00	0.00	0.00	
6,100.0	10.71	63.36	6,021.0	385.4	768.2	-286.4	0.00	0.00	0.00	
6,200.0	10.71	63.36	6,119.3	393.8	784.8	-292.6	0.00	0.00	0.00	
6,300.0	10.71	63.36	6,217.5	402.1	801.4	-298.8	0.00	0.00	0.00	
6,400.0	10.71	63.36	6,315.8	410.4	818.1	-305.0	0.00	0.00	0.00	
6,486.4	10.71	63.36	6,400.6	417.6	832.4	-310.4	0.00	0.00	0.00	
6,500.0	10.44	63.36	6,414.0	418.7	834.6	-311.2	2.00	-2.00	0.00	
6,600.0	8.44	63.36	6,512.7	426.1	849.3	-316.7	2.00	-2.00	0.00	
6,700.0	6.44	63.36	6,611.8	431.9	860.9	-321.0	2.00	-2.00	0.00	
6,800.0	4.44	63.36	6,711.4	436.2	869.3	-324.1	2.00	-2.00	0.00	
6,900.0	2.44	63.36	6,811.2	438.8	874.7	-326.1	2.00	-2.00	0.00	
7,000.0	0.44	63.36	6,911.2	440.0	876.9	-327.0	2.00	-2.00	0.00	
7,021.8	0.00	0.00	6,933.0	440.0	877.0	-327.0	2.00	-2.00	0.00	
7,100.0	0.00	0.00	7,011.2	440.0	877.0	-327.0	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,111.2	440.0	877.0	-327.0	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,211.2	440.0	877.0	-327.0	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,311.2	440.0	877.0	-327.0	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,411.2	440.0	877.0	-327.0	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,511.2	440.0	877.0	-327.0	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,611.2	440.0	877.0	-327.0	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,711.2	440.0	877.0	-327.0	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,811.2	440.0	877.0	-327.0	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,911.2	440.0	877.0	-327.0	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,011.2	440.0	877.0	-327.0	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,111.2	440.0	877.0	-327.0	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,211.2	440.0	877.0	-327.0	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,311.2	440.0	877.0	-327.0	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,411.2	440.0	877.0	-327.0	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,511.2	440.0	877.0	-327.0	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,611.2	440.0	877.0	-327.0	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,711.2	440.0	877.0	-327.0	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,811.2	440.0	877.0	-327.0	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,911.2	440.0	877.0	-327.0	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,011.2	440.0	877.0	-327.0	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,111.2	440.0	877.0	-327.0	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,211.2	440.0	877.0	-327.0	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,311.2	440.0	877.0	-327.0	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,411.2	440.0	877.0	-327.0	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,511.2	440.0	877.0	-327.0	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,611.2	440.0	877.0	-327.0	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,711.2	440.0	877.0	-327.0	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,811.2	440.0	877.0	-327.0	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,911.2	440.0	877.0	-327.0	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,011.2	440.0	877.0	-327.0	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,111.2	440.0	877.0	-327.0	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,211.2	440.0	877.0	-327.0	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,311.2	440.0	877.0	-327.0	0.00	0.00	0.00	



Planning Report

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Site:	Modelo 10 Fed Com	North Reference:	Grid
Well:	#716H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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)
10,500.0	0.00	0.00	10,411.2	440.0	877.0	-327.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,511.2	440.0	877.0	-327.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,611.2	440.0	877.0	-327.0	0.00	0.00	0.00
10,800.0	0.00	0.00	10,711.2	440.0	877.0	-327.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,811.2	440.0	877.0	-327.0	0.00	0.00	0.00
11,000.0	0.00	0.00	10,911.2	440.0	877.0	-327.0	0.00	0.00	0.00
11,100.0	0.00	0.00	11,011.2	440.0	877.0	-327.0	0.00	0.00	0.00
11,200.0	0.00	0.00	11,111.2	440.0	877.0	-327.0	0.00	0.00	0.00
11,300.0	0.00	0.00	11,211.2	440.0	877.0	-327.0	0.00	0.00	0.00
11,400.0	0.00	0.00	11,311.2	440.0	877.0	-327.0	0.00	0.00	0.00
11,500.0	0.00	0.00	11,411.2	440.0	877.0	-327.0	0.00	0.00	0.00
11,516.3	0.00	0.00	11,427.5	440.0	877.0	-327.0	0.00	0.00	0.00
11,525.0	1.04	178.85	11,436.2	439.9	877.0	-326.9	12.00	12.00	0.00
11,550.0	4.04	178.85	11,461.1	438.8	877.0	-325.8	12.00	12.00	0.00
11,575.0	7.04	178.85	11,486.0	436.4	877.1	-323.4	12.00	12.00	0.00
11,600.0	10.04	178.85	11,510.7	432.7	877.1	-319.7	12.00	12.00	0.00
11,625.0	13.04	178.85	11,535.2	427.7	877.2	-314.7	12.00	12.00	0.00
11,650.0	16.04	178.85	11,559.4	421.4	877.4	-308.5	12.00	12.00	0.00
11,675.0	19.04	178.85	11,583.3	413.9	877.5	-301.0	12.00	12.00	0.00
11,700.0	22.05	178.85	11,606.7	405.1	877.7	-292.3	12.00	12.00	0.00
11,725.0	25.05	178.85	11,629.6	395.1	877.9	-282.3	12.00	12.00	0.00
11,736.8	26.46	178.85	11,640.2	390.0	878.0	-277.3	12.00	12.00	0.00
11,750.0	28.05	178.91	11,651.9	384.0	878.1	-271.2	12.00	12.00	0.42
11,775.0	31.05	179.00	11,673.7	371.6	878.3	-259.0	12.00	12.00	0.37
11,800.0	34.05	179.08	11,694.8	358.2	878.6	-245.6	12.00	12.00	0.31
11,825.0	37.05	179.14	11,715.1	343.7	878.8	-231.2	12.00	12.00	0.26
11,850.0	40.05	179.20	11,734.6	328.1	879.0	-215.7	12.00	12.00	0.23
11,875.0	43.05	179.25	11,753.4	311.5	879.2	-199.2	12.00	12.00	0.20
11,900.0	46.05	179.30	11,771.2	294.0	879.5	-181.8	12.00	12.00	0.18
11,925.0	49.04	179.34	11,788.0	275.5	879.7	-163.5	12.00	12.00	0.16
11,950.0	52.04	179.38	11,803.9	256.2	879.9	-144.3	12.00	12.00	0.15
11,975.0	55.04	179.41	11,818.8	236.1	880.1	-124.3	12.00	12.00	0.14
12,000.0	58.04	179.44	11,832.6	215.3	880.3	-103.6	12.00	12.00	0.13
12,025.0	61.04	179.47	11,845.2	193.7	880.5	-82.2	12.00	12.00	0.12
12,050.0	64.04	179.50	11,856.8	171.5	880.7	-60.2	12.00	12.00	0.11
12,075.0	67.04	179.53	11,867.1	148.8	880.9	-37.6	12.00	12.00	0.11
12,100.0	70.04	179.55	11,876.2	125.5	881.1	-14.5	12.00	12.00	0.10
12,125.0	73.04	179.58	11,884.2	101.8	881.3	9.1	12.00	12.00	0.10
12,150.0	76.04	179.60	11,890.8	77.7	881.5	33.0	12.00	12.00	0.10
12,175.0	79.04	179.62	11,896.2	53.3	881.6	57.3	12.00	12.00	0.09
12,200.0	82.04	179.65	11,900.3	28.7	881.8	81.7	12.00	12.00	0.09
12,225.0	85.04	179.67	11,903.1	3.8	881.9	106.4	12.00	12.00	0.09
12,250.0	88.04	179.69	11,904.6	-21.1	882.1	131.2	12.00	12.00	0.09
12,266.3	90.00	179.71	11,904.9	-37.4	882.1	147.3	12.00	12.00	0.09
12,300.0	90.00	179.71	11,904.9	-71.1	882.3	180.8	0.00	0.00	0.00
12,400.0	90.00	179.71	11,904.9	-171.1	882.8	280.1	0.00	0.00	0.00
12,500.0	90.00	179.71	11,904.9	-271.1	883.3	379.4	0.00	0.00	0.00
12,600.0	90.00	179.71	11,904.9	-371.1	883.9	478.6	0.00	0.00	0.00
12,700.0	90.00	179.71	11,904.9	-471.1	884.4	577.9	0.00	0.00	0.00
12,800.0	90.00	179.71	11,904.9	-571.1	884.9	677.2	0.00	0.00	0.00
12,900.0	90.00	179.71	11,904.9	-671.1	885.4	776.5	0.00	0.00	0.00
13,000.0	90.00	179.71	11,904.9	-771.1	885.9	875.8	0.00	0.00	0.00
13,100.0	90.00	179.71	11,905.0	-871.1	886.4	975.0	0.00	0.00	0.00
13,200.0	90.00	179.71	11,905.0	-971.1	886.9	1,074.3	0.00	0.00	0.00



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #716H
Company:	Midland	TVD Reference:	kb = 26' @ 3667.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3667.0usft
Site:	Modelo 10 Fed Com	North Reference:	Grid
Well:	#716H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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)
13,300.0	90.00	179.71	11,905.0	-1,071.1	887.4	1,173.6	0.00	0.00	0.00
13,400.0	90.00	179.71	11,905.0	-1,171.1	888.0	1,272.9	0.00	0.00	0.00
13,500.0	90.00	179.71	11,905.0	-1,271.1	888.5	1,372.2	0.00	0.00	0.00
13,600.0	90.00	179.71	11,905.0	-1,371.1	889.0	1,471.4	0.00	0.00	0.00
13,700.0	90.00	179.71	11,905.0	-1,471.1	889.5	1,570.7	0.00	0.00	0.00
13,800.0	90.00	179.71	11,905.0	-1,571.1	890.0	1,670.0	0.00	0.00	0.00
13,900.0	90.00	179.71	11,905.0	-1,671.1	890.5	1,769.3	0.00	0.00	0.00
14,000.0	90.00	179.71	11,905.0	-1,771.1	891.0	1,868.6	0.00	0.00	0.00
14,100.0	90.00	179.71	11,905.0	-1,871.1	891.5	1,967.8	0.00	0.00	0.00
14,200.0	90.00	179.71	11,905.0	-1,971.1	892.0	2,067.1	0.00	0.00	0.00
14,300.0	90.00	179.71	11,905.0	-2,071.1	892.6	2,166.4	0.00	0.00	0.00
14,385.9	90.00	179.71	11,905.0	-2,157.0	893.0	2,251.7	0.00	0.00	0.00
14,400.0	90.00	179.71	11,905.0	-2,171.1	893.1	2,265.7	0.00	0.00	0.00
14,500.0	90.00	179.70	11,905.0	-2,271.1	893.6	2,364.9	0.00	0.00	0.00
14,600.0	90.00	179.70	11,905.0	-2,371.1	894.1	2,464.2	0.00	0.00	0.00
14,700.0	90.00	179.69	11,905.0	-2,471.1	894.6	2,563.5	0.00	0.00	0.00
14,800.0	90.00	179.69	11,905.0	-2,571.1	895.2	2,662.8	0.00	0.00	0.00
14,900.0	90.00	179.69	11,905.0	-2,671.1	895.7	2,762.1	0.00	0.00	0.00
15,000.0	90.00	179.68	11,905.0	-2,771.1	896.3	2,861.4	0.00	0.00	0.00
15,100.0	90.00	179.68	11,905.0	-2,871.1	896.8	2,960.6	0.00	0.00	0.00
15,200.0	90.00	179.67	11,905.0	-2,971.1	897.4	3,059.9	0.00	0.00	0.00
15,300.0	90.00	179.67	11,905.0	-3,071.1	898.0	3,159.2	0.00	0.00	0.00
15,400.0	90.00	179.67	11,905.0	-3,171.1	898.6	3,258.5	0.00	0.00	0.00
15,500.0	90.00	179.66	11,905.0	-3,271.1	899.1	3,357.8	0.00	0.00	0.00
15,600.0	90.00	179.66	11,905.0	-3,371.1	899.7	3,457.1	0.00	0.00	0.00
15,700.0	90.00	179.65	11,905.0	-3,471.1	900.3	3,556.4	0.00	0.00	0.00
15,800.0	90.00	179.65	11,905.0	-3,571.1	900.9	3,655.7	0.00	0.00	0.00
15,900.0	90.00	179.65	11,905.0	-3,671.1	901.6	3,755.0	0.00	0.00	0.00
16,000.0	90.00	179.64	11,905.0	-3,771.1	902.2	3,854.2	0.00	0.00	0.00
16,100.0	90.00	179.64	11,905.0	-3,871.1	902.8	3,953.5	0.00	0.00	0.00
16,200.0	90.00	179.63	11,905.0	-3,971.1	903.4	4,052.8	0.00	0.00	0.00
16,300.0	90.00	179.63	11,905.0	-4,071.1	904.1	4,152.1	0.00	0.00	0.00
16,400.0	90.00	179.63	11,905.0	-4,171.1	904.7	4,251.4	0.00	0.00	0.00
16,500.0	90.00	179.62	11,905.0	-4,271.1	905.4	4,350.7	0.00	0.00	0.00
16,600.0	90.00	179.62	11,905.0	-4,371.1	906.1	4,450.0	0.00	0.00	0.00
16,700.0	90.00	179.61	11,905.0	-4,471.1	906.7	4,549.3	0.00	0.00	0.00
16,800.0	90.00	179.61	11,905.0	-4,571.1	907.4	4,648.6	0.00	0.00	0.00
16,900.0	90.00	179.61	11,905.0	-4,671.1	908.1	4,747.9	0.00	0.00	0.00
17,000.0	90.00	179.60	11,905.0	-4,771.1	908.8	4,847.2	0.00	0.00	0.00
17,029.9	90.00	179.60	11,905.0	-4,801.0	909.0	4,876.9	0.00	0.00	0.00
17,100.0	90.00	179.60	11,905.0	-4,871.1	909.5	4,946.5	0.00	0.00	0.00
17,200.0	90.00	179.61	11,905.0	-4,971.1	910.2	5,045.8	0.00	0.00	0.00
17,300.0	90.00	179.61	11,905.0	-5,071.0	910.9	5,145.1	0.00	0.00	0.00
17,400.0	90.00	179.62	11,905.0	-5,171.0	911.5	5,244.4	0.00	0.00	0.00
17,500.0	90.00	179.62	11,905.0	-5,271.0	912.2	5,343.7	0.00	0.00	0.00
17,600.0	90.00	179.63	11,905.0	-5,371.0	912.8	5,443.0	0.00	0.00	0.00
17,700.0	90.00	179.63	11,905.0	-5,471.0	913.5	5,542.3	0.00	0.00	0.00
17,800.0	90.00	179.64	11,905.0	-5,571.0	914.1	5,641.6	0.00	0.00	0.00
17,900.0	90.00	179.64	11,905.0	-5,671.0	914.8	5,740.9	0.00	0.00	0.00
18,000.0	90.00	179.65	11,905.0	-5,771.0	915.4	5,840.2	0.00	0.00	0.00
18,100.0	90.00	179.65	11,905.0	-5,871.0	916.0	5,939.5	0.00	0.00	0.00
18,200.0	90.00	179.66	11,905.0	-5,971.0	916.6	6,038.8	0.00	0.00	0.00
18,300.0	90.00	179.66	11,905.0	-6,071.0	917.2	6,138.1	0.00	0.00	0.00
18,400.0	90.00	179.67	11,905.0	-6,171.0	917.8	6,237.3	0.00	0.00	0.00

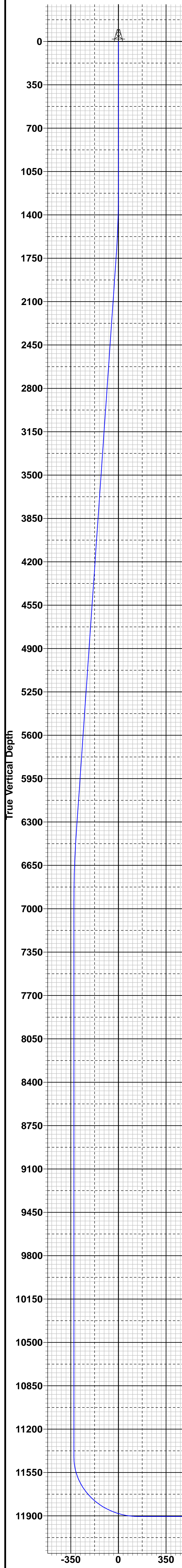


Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #716H
Company:	Midland	TVD Reference:	kb = 26' @ 3667.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3667.0usft
Site:	Modelo 10 Fed Com	North Reference:	Grid
Well:	#716H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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)
18,500.0	90.00	179.67	11,905.0	-6,271.0	918.4	6,336.6	0.00	0.00	0.00
18,600.0	90.00	179.68	11,905.0	-6,371.0	918.9	6,435.9	0.00	0.00	0.00
18,700.0	90.00	179.68	11,905.0	-6,471.0	919.5	6,535.2	0.00	0.00	0.00
18,800.0	90.00	179.69	11,905.0	-6,571.0	920.0	6,634.5	0.00	0.00	0.00
18,900.0	90.00	179.69	11,905.0	-6,671.0	920.6	6,733.8	0.00	0.00	0.00
19,000.0	90.00	179.70	11,905.0	-6,771.0	921.1	6,833.0	0.00	0.00	0.00
19,100.0	90.00	179.70	11,905.0	-6,871.0	921.6	6,932.3	0.00	0.00	0.00
19,200.0	90.00	179.70	11,905.0	-6,971.0	922.2	7,031.6	0.00	0.00	0.00
19,300.0	90.00	179.71	11,905.0	-7,071.0	922.7	7,130.9	0.00	0.00	0.00
19,400.0	90.00	179.71	11,905.0	-7,171.0	923.2	7,230.2	0.00	0.00	0.00
19,500.0	90.00	179.72	11,905.0	-7,271.0	923.7	7,329.4	0.00	0.00	0.00
19,567.0	90.00	179.72	11,905.0	-7,338.0	924.0	7,395.9	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 Cor - plan hits target center - Point	0.00	0.00	11,427.5	440.0	877.0	451,425.00	750,240.00	32° 14' 21.253 N	103° 39' 27.630 W
FTP(Modelo 10 Fed Cor - plan hits target center - Point	0.00	0.00	11,640.2	390.0	878.0	451,375.00	750,241.00	32° 14' 20.758 N	103° 39' 27.622 W
PBHL(Modelo 10 Fed Cor - plan hits target center - Point	0.00	0.00	11,905.0	-7,338.0	924.0	443,647.00	750,287.00	32° 13' 4.284 N	103° 39' 27.652 W
Fed Perf 2(Modelo 10 Fed Cor - plan hits target center - Point	0.00	0.00	11,905.0	-4,801.0	909.0	446,184.00	750,272.00	32° 13' 29.389 N	103° 39' 27.641 W
Fed Perf 1(Modelo 10 Fed Cor - plan hits target center - Point	0.00	0.00	11,905.0	-2,157.0	893.0	448,828.00	750,256.00	32° 13' 55.553 N	103° 39' 27.633 W



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 #716H

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: #716H

kb = 26' @ 3667.0usft 3641.0

Northing

450985.00

Easting

749363.00

Latitude

32° 14' 16.953 N

Longitude

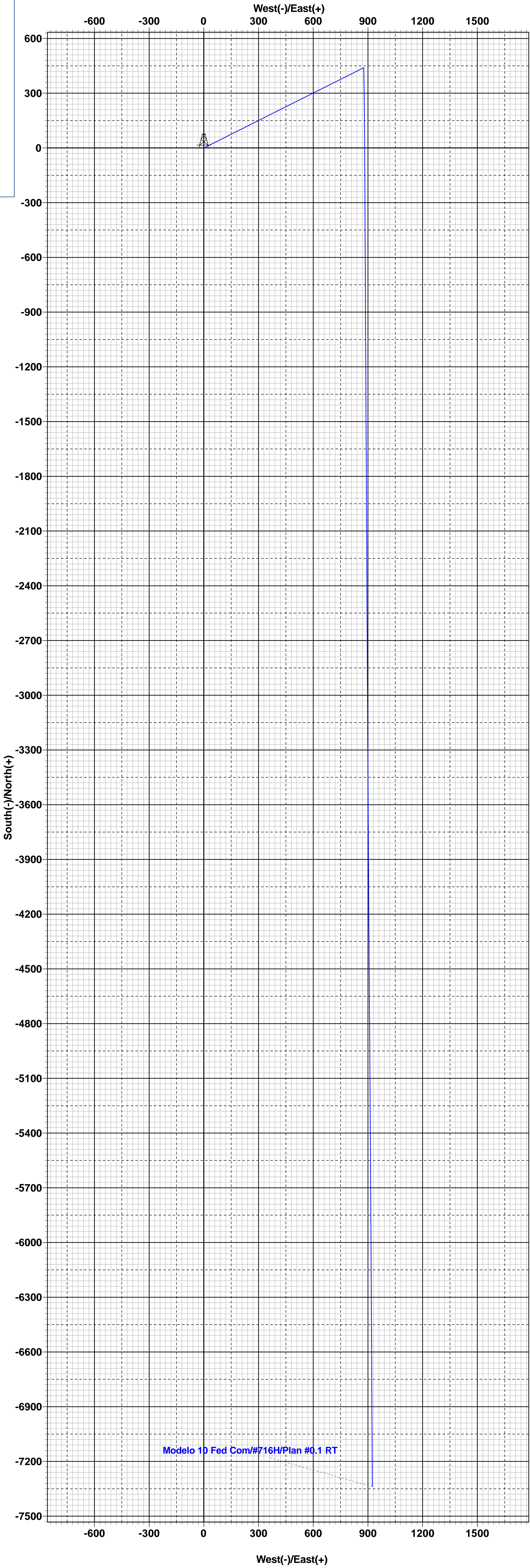
103° 39' 37.872 W

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1208.0	0.00	0.00	1208.0	0.0	0.0	0.00	0.00	0.0	
3	1743.5	10.71	63.36	1740.4	22.4	44.6	2.00	63.36	-16.6	
4	6486.4	10.71	63.36	6400.6	417.6	832.4	0.00	0.00	-310.4	
5	7021.8	0.00	0.00	6933.0	440.0	877.0	2.00	180.00	-327.0	
6	11516.3	0.00	0.00	11427.5	440.0	877.0	0.00	0.00	-327.0	KOP(Modelo 10 Fed Com #716H)
7	11736.8	26.46	178.85	11640.2	390.0	878.0	12.00	178.85	-277.3	FTP(Modelo 10 Fed Com #716H)
8	12266.3	90.00	179.71	11904.9	-37.4	882.1	12.00	0.95	147.3	
9	14385.9	90.00	179.71	11905.0	-2157.0	893.0	0.00	0.00	2251.7	Fed Perf 1(Modelo 10 Fed Com #716H)
10	17029.9	90.00	179.60	11905.0	-4801.0	909.0	0.00	-87.68	4876.9	Fed Perf 2(Modelo 10 Fed Com #716H)
11	19567.0	90.00	179.72	11905.0	-7338.0	924.0	0.00	92.02	7395.9	PBHL(Modelo 10 Fed Com #716H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)					
Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Modelo 10 Fed Com #716H)	11427.5	440.0	877.0	451425.00	750240.00
FTP(Modelo 10 Fed Com #716H)	11640.2	390.0	878.0	451375.00	750241.00
Fed Perf 1(Modelo 10 Fed Com #716H)	11905.0	-2157.0	893.0	448828.00	750256.00
Fed Perf 2(Modelo 10 Fed Com #716H)	11905.0	-4801.0	909.0	446184.00	750272.00
PBHL(Modelo 10 Fed Com #716H)	11905.0	-7338.0	924.0	443647.00	750287.00



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 267265

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 267265
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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