Form 3160-5 (June 2019)	UNITED STATES EPARTMENT OF THE INTERIOR		FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021		
	REAU OF LAND MANAGEMENT		5 Lease Serial No	MNM110835	
Do not use this	NOTICES AND REPORTS ON V form for proposals to drill or to Use Form 3160-3 (APD) for su	o re-enter ar		Tribe Name	
	NTRIPLICATE - Other instructions on pag			ement, Name and/or No.	
1. Type of Well			8. Well Name and No.		
	s Well Other			MERCILESS 13 FED COM/508H	
2. Name of Operator EOG RESOU			9. API Well No. 3002		
	DBBY 2, HOUSTON, TX 77(3b. Phone No. (713) 651-70		TRISTE DRAW; BO	DNE SPRING/WC-025 G-08 S25323	
4. Location of Well <i>(Footage, Sec., T</i> SEC 13/T25S/R32E/NMP	T.R.,M., or Survey Description)		11. Country or Parish, LEA/NM	State	
12. CI	IECK THE APPROPRIATE BOX(ES) TO IN	DICATE NATUR	E OF NOTICE, REPORT OR OTH	IER DATA	
TYPE OF SUBMISSION		TY	PE OF ACTION		
✓ Notice of Intent	Acidize Deep	pen raulic Fracturing	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity	
Subsequent Report		Construction	Recomplete	✓ Other	
Final Abandonment Notice		and Abandon Back	Temporarily Abandon Water Disposal		
is ready for final inspection.) EOG respectfully requests a the following changes: Change SHL from T-25-S, F to T-25-S, R-32-E, Sec 13, 3 Change BHL from T-25-S, F to T-25-S, R-32-E, Sec 24, 3 Update casing and cement	Notices must be filed only after all requirement an amendment to our approved APD for th R-32-E, Sec 13, 311' FNL, 579' FEL, Lea C B49' FNL, 2317' FEL, Lea Co., N.M. R-32-E, Sec 24, 2541' FNL, 1075' FEL, Lea 2542' FNL, 2590' FEL, Lea Co., N.M. brogram to current design. Variance 3a (attached) to offline cement th	is well to reflect Co., NM, a Co., NM,		ne operator has detennined that the site	
STAR HARRELL / Ph: (432) 848	is true and correct. Name (<i>Printed/Typed</i>) -9161	Title Regulato	ry Specialist		
Signature		Date	04/05/20)22	
	THE SPACE FOR FED	ERAL OR S	TATE OFICE USE		
Approved by		_			
CHRISTOPHER WALLS / Ph: (75) 234-2234 / Approved	Title Pet	roleum Engineer	05/04/2022 Date	
	ached. Approval of this notice does not warrar r equitable title to those rights in the subject le onduct operations thereon.	nt or ease Office C	ARLSBAD		

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)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Location of Well

0. SHL: NENE / 311 FNL / 579 FEL / TWSP: 25S / RANGE: 32E / SECTION: 13 / LAT: 32.1369966 / LONG: -103.6217614 (TVD: 0 feet, MD: 0 feet) PPP: NENE / 100 FNL / 1075 FEL / TWSP: 25S / RANGE: 32E / SECTION: 13 / LAT: 32.1375684 / LONG: -103.6233628 (TVD: 10555 feet, MD: 10589 feet) BHL: SENE / 2541 FNL / 1075 FEL / TWSP: 25S / RANGE: 32E / SECTION: 24 / LAT: 32.1163462 / LONG: -103.6233819 (TVD: 10820 feet, MD: 18411 feet) 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

Phone: (575) 748-1283 Fax: (575) 748-9720

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

1220 S. St. Francis Dr., Santa Fe, NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

811 S. First St., Artesia, NM 88210

District I

District II

District III

District IV

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT ¹API Number ²Pool Code ³Pool Name 30-025-47447 WC-025 G-08 S253235G; Lower Bone Spring 97903 Well Number ⁴Property Code ⁵Property Name 328894 **MERCILESS 13 FED COM** 508H ⁸Operator Name ⁹Elevation ⁷OGRID No. 3496 7377 EOG RESOURCES, INC. ¹⁰Surface Location UL or lot no. Township Lot Idn Feet from the North/South line Feet from the East/West line County Section Rang 25-S32-E349' NORTH 2317' LEA Β EAST 13 ¹¹Bottom Hole Location If Different From Surface UL or lot no. Feet from the North/South line Feet from the East/West line County Section Township Rang Lot Idn 2542' 2590' G $\mathbf{24}$ 25-S 32-ENORTH EAST LEA ²Dedicated Acres ³.Ioint or Infill ⁴Consolidation Code ⁵Order No. 480.00

State of New Mexico

Energy, Minerals & Natural Resources

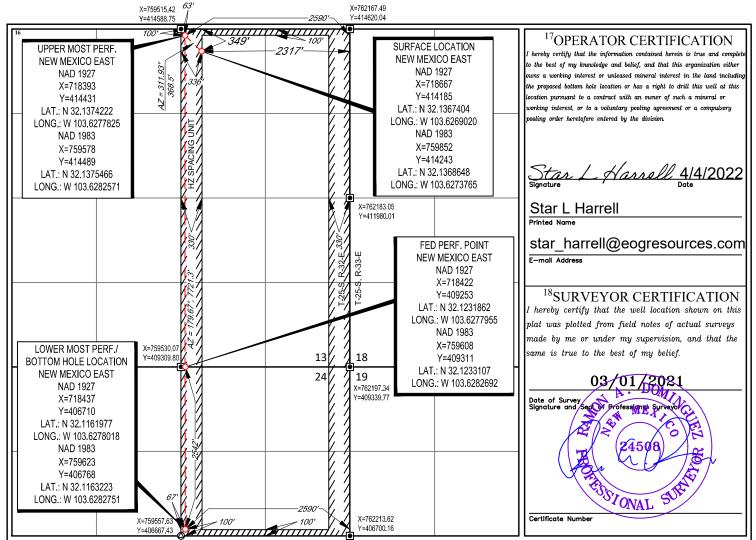
Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

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



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eog resources

Merciless 13 Fed Com 508H

Revised Permit Information 03/28/2022:

Well Name: Merciless 13 Fed Com 508H

Location: SHL: 349' FNL & 2317' FEL, Section 13, T-25-S, R-32-E, Lea Co., N.M.

BHL: 2542' FNL & 2590' FEL, Section 24, T-25-S, R-32-E, Lea Co., N.M.

Casing Program:

Hole	Interv	al MD	Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft]	To (ft)	OD	Weight	Grade	Conn
16"	0	1,060	0	1,060	13-3/8"	54.5#	J-55	STC
12-1/4"	0	4,000	0	3,987	9-5/8"	40#	J-55	LTC
12-1/4"	4,000	4,810	3,987	4,797	9-5/8"	40#	HCK-55	LTC
7-7/8"	0	18,510	0	10,931	5-1/2"	17#	HCP-110	LTC

Variance is requested to waive the centralizer requirements for the 9-5/8" casing in the 12-1/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 12-1/4" 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 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.

	Cementing Program:							
Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description				
1,060' 13-3/8''	320	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)				
	100	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 860')				
4,810' 9-5/8''	700	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)				
	310	14.8	1.32	Tail: Class C + 10% NaCL + 3% MagOx (TOC @ 3,850')				
18,510' _{5-1/2''}	450	11.0	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4,310')				
	1470	14.4	1.2	Tail: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,467')				

Cementing Program:

Seog resources

Merciless	13	Fed	Com	508H	

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				

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

With Hogiam.	r			
Depth (TVD)	Туре	Weight (ppg)	Viscosity	Water Loss
0 – 1,060'	Fresh - Gel	8.6-8.8	28-34	N/c
1,060' - 4,810'	Brine	8.6-8.8	28-34	N/c
4,810' - 18,510'	Oil Base	8.8-9.5	58-68	N/c - 6

Mud Program:

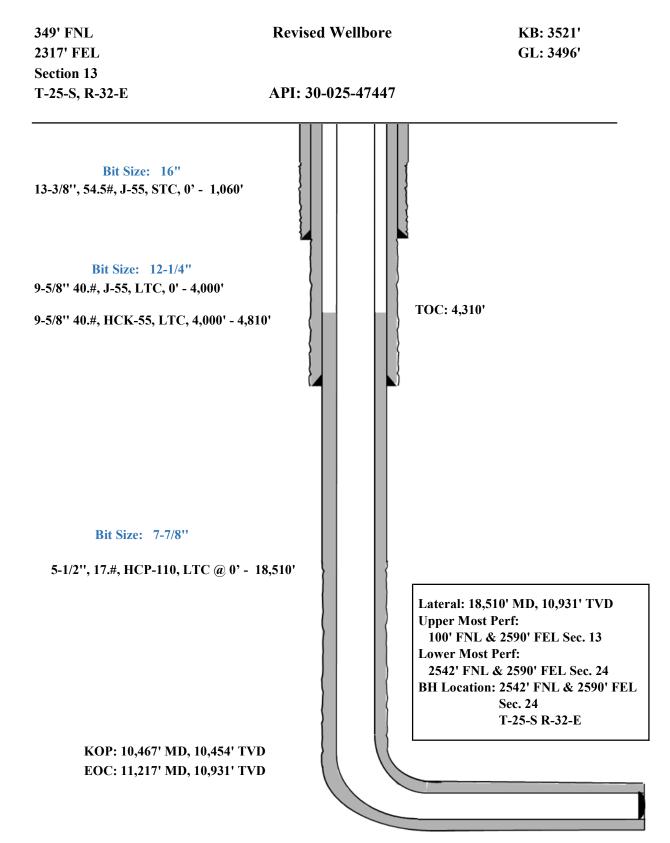
Wellhead:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.i) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 30 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and production sections that do not penetrate the Wolfcamp or deeper formations.
- After the well section is cemented the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad. The cemented well will be secured with a blind flange and a pressure gauge for monitoring.

Seog resources

Merciless 13 Fed Com 508H



Seog resources Offline Intermediate Cementing Procedure

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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Seog resources

Offline Intermediate Cementing Procedure

- 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.

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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Seog resources

Offline Intermediate Cementing Procedure

- 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

Seog resources Offline Intermediate Cementing Procedure

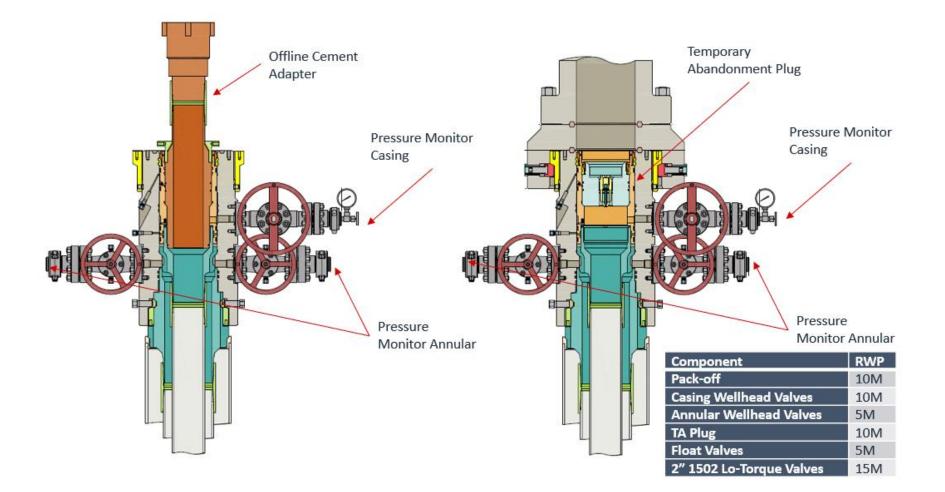
Figure 1: Cameron TA Plug and Offline Adapter Schematic



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Offline Intermediate Cementing Procedure





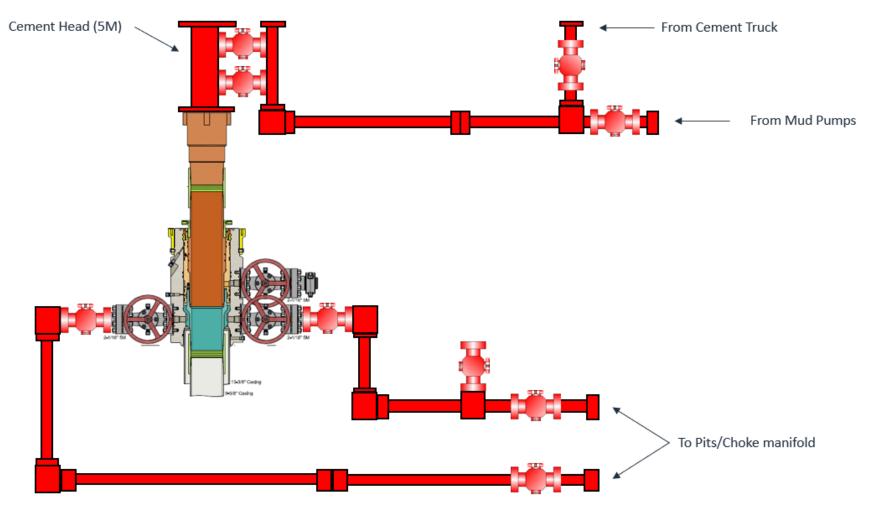
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Figure 3: Back Yard Rig Up



*** All Lines 10M rated working pressure





2/24/2022

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
	Action Number:
Midland, TX 79702	104261
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By		Condition Date
pkautz	None	5/24/2022

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Action 104261