Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMNM77063

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No. FRODERICK 33 FED COM/583H

2. Name of Operator EOG RESOURCES INCORPORATED

9. API Well No. 30-025-51701

3a. Address 1111 BAGBY SKY LOBBY 2, HOUSTON, TX 770

3b. Phone No. *(include area code)* (713) 651-7000

10. Field and Pool or Exploratory Area WC-025 G-09 S223332A; UPPER WOLFCAMP

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SEC 33/T23S/R32E/NMP

11. 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			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☑ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ 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 recomplete 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 perfonned 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 recompletion 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.)

Froderick 33 Fed Com 714H (FKA 583H) API #: 30-025-51701

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

Change name from Froderick 33 Fed Com 583H to Froderick 33 Fed Com 714H.

Change BHL from T-23-S, R-32-E, Sec 28, 100' FNL, 2178' FEL, Lea Co., NM, to T-23-S, R-32-E, Sec 28, 100' FNL, 2025' 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)* STAR HARRELL / Ph: (432) 848-9161

Title Regulatory Specialist

Signature

Date 07/11/2023

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by CODY LAYTON / Ph: (575) 234-5959 / Approved

Title Assistant Field Manager Lands &

Date 07/17/2023

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)

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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand 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

Additional Remarks

Update casing and cement program to current design.

Update the Pool as reflected in the C-102.

Location of Well

0. SHL: TR F / 2316 FNL / 2512 FWL / TWSP: 23S / RANGE: 32E / SECTION: 33 / LAT: 32.2619372 / LONG: -103.6800136 (TVD: 0 feet, MD: 0 feet)

PPP: TR G / 2541 FNL / 2178 FEL / TWSP: 23S / RANGE: 32E / SECTION: 33 / LAT: 32.2613232 / LONG: -103.678095 (TVD: 10902 feet, MD: 10933 feet)

BHL: TR B / 100 FNL / 2178 FEL / TWSP: 23S / RANGE: 32E / SECTION: 28 / LAT: 32.2825749 / LONG: -103.6780945 (TVD: 11167 feet, MD: 18766 feet)

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) 476-3460 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

API Number	Pool Code	Pool Name
30-025-51701	98248	WC-025 G-08 S243217P;UPR WOLFCAMP

Property Code	Property Name	Well Number
334303	FRODERICK 33 FED COM	714H

OGRID No.	Operator Name	Elevation
7377	EOG RESOURCES, INC.	3676'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	33	23-S	32-E	-	2316'	NORTH	2512'	WEST	LEA

Bottom Hole Location If Different From Surface

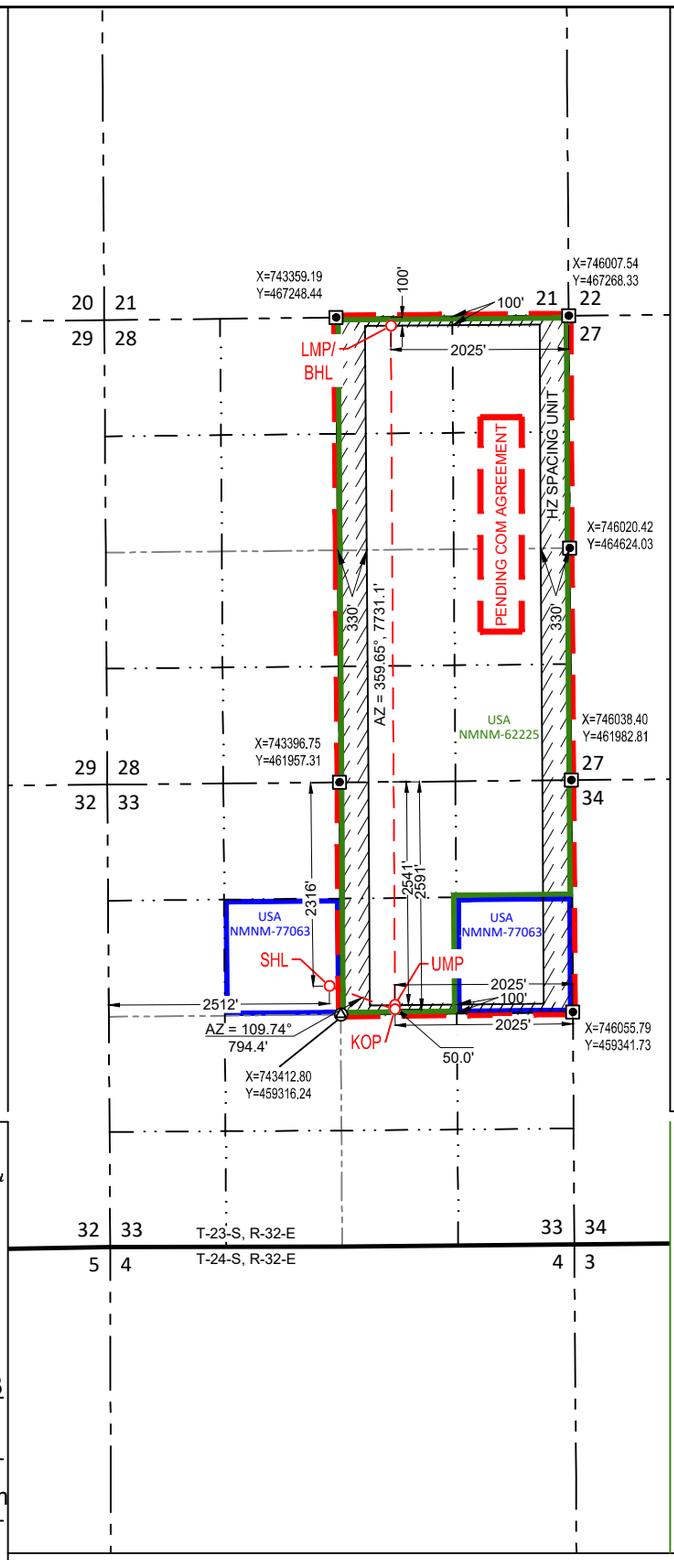
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	28	23-S	32-E	-	100'	NORTH	2025'	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidated Code	Order No.
480			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 division.

SURFACE LOCATION (SHL)
NEW MEXICO EAST
NAD 1983
X=743283 Y=459640
LAT.: N 32.2619372
LONG.: W 103.6800136
NAD 1927
X=702099 Y=459581
LAT.: N 32.2618138
LONG.: W 103.6795309
2316' FNL 2512' FWL

KICK OFF POINT (KOP)
NEW MEXICO EAST
NAD 1983
X=744031 Y=459372
LAT.: N 32.2611872
LONG.: W 103.6776001
NAD 1927
X=702847 Y=459313
LAT.: N 32.2610638
LONG.: W 103.6771174
2591' FSL 2025' FEL



UPPER MOST PERF. (UMP)
NEW MEXICO EAST
NAD 1983
X=744030 Y=459422
LAT.: N 32.2613246
LONG.: W 103.6776001
NAD 1927
X=702847 Y=459363
LAT.: N 32.2612012
LONG.: W 103.6771174
2541' FSL 2025' FEL

LOWER MOST PERF. (LMP)
BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST
NAD 1983
X=743983 Y=467153
LAT.: N 32.2825755
LONG.: W 103.6775995
NAD 1927
X=702800 Y=467094
LAT.: N 32.2824521
LONG.: W 103.6771160
100' FNL 2025' FEL

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Star L Harrell 7/11/2023
Signature Date

Star L Harrell
Print Name

star_harrell@eogresources.com
E-mail Address

SURVEYORS CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

05/06/2023
Date of Survey
Signature and Seal of Professional Surveyor:

RAMON DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

6/8/2023 11:32:10 AM

S:\SURVEYED\00_MIDLAND\FRODERICK_33_FED_COM\FINAL_PRODUCTS\LO_FRODERICK_33_FC_714H_REV1.dwg BHORNBECK 6/8/2023 11:32 AM

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Froderick 33 Fed Com 714H

Revised Permit Information 04/27/2023:

Well Name: Froderick 33 Fed Com 714H

Location: SHL: 2316' FNL & 2512' FWL, Section 33, T-23-S, R-32-E, Lea Co., N.M.
BHL: 100' FNL & 2025' FEL, Section 28, T-23-S, R-32-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval MD From (ft)	Interval MD To (ft)	Interval TVD From (ft)	Interval TVD To (ft)	Csg OD	Weight	Grade	Conn
12-1/4"	0	1,260	0	1,260	9-5/8"	36#	J-55	LTC
8-3/4"	0	11,231	0	11,170	7-5/8"	29.7#	HCP-110	FXL
6-3/4"	0	10,731	0	10,670	5-1/2"	20#	P110-EC	DWC/C IS MS
6-3/4"	10,731	11,231	10,670	11,170	5-1/2"	20#	P110-EC	Vam Sprint SF
6-3/4"	11,231	19,979	11,170	12,344	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
1,260' 9-5/8''	340	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	80	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,060')
11,170' 7-5/8''	510	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 6,870')
	1180	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
19,979' 5-1/2''	810	13.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,670')

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Froderick 33 Fed Com 714H

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 (7,071') 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 180 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 – 1,260'	Fresh - Gel	8.6-8.8	28-34	N/c
1,260' – 11,170'	Brine	10.0-10.2	28-34	N/c
11,170’ – 11,926'	Oil Base	8.7-9.4	58-68	N/c - 6
11,926’ – 19,979’ Lateral	Oil Base	10.0-14.0	58-68	4 - 6

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Froderick 33 Fed Com 714H

Wellhead & Offline Cementing:

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.a.i) 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 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 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.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"

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Froderick 33 Fed Com 714H

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.

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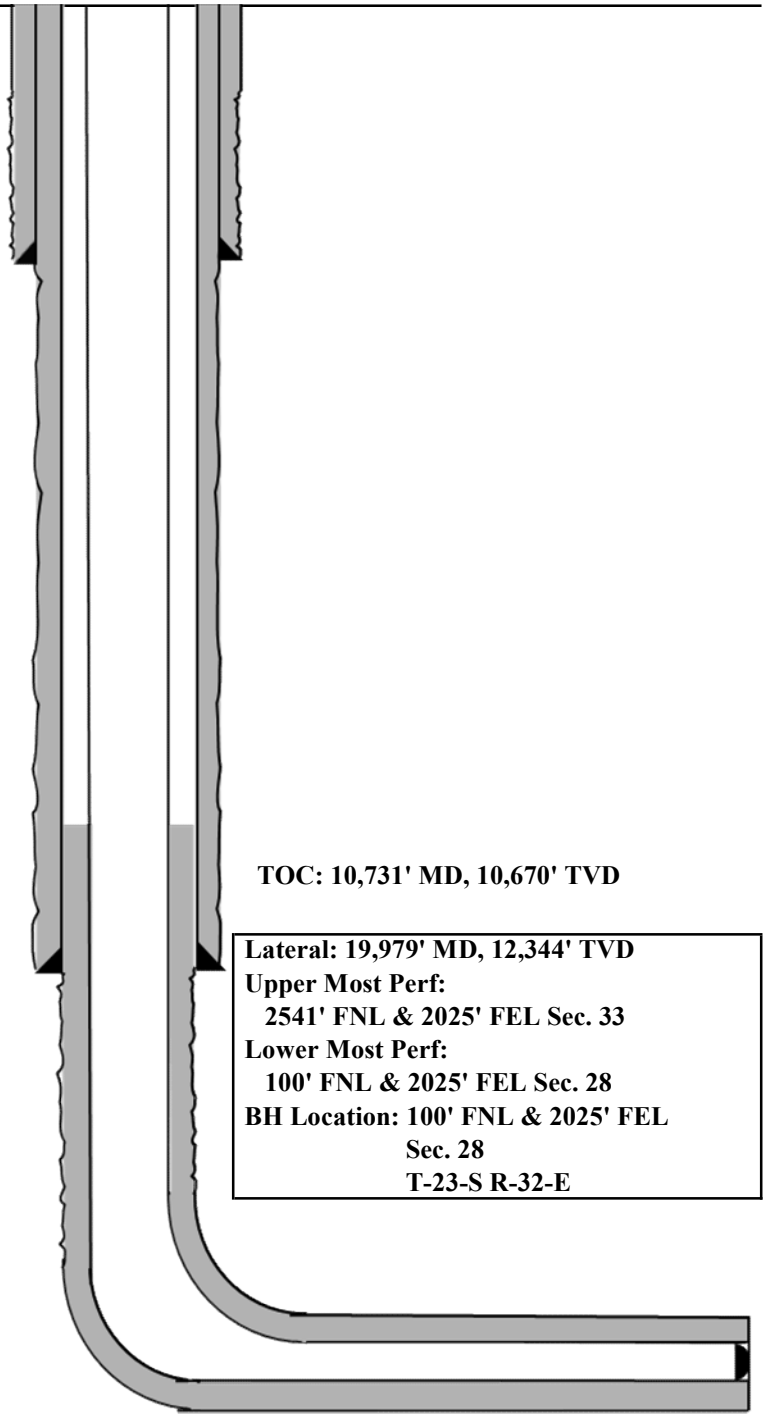
Froderick 33 Fed Com 714H

2316' FNL
2512' FWL
Section 33
T-23-S, R-32-E

Revised Wellbore

API: 30-025-*****

KB: 3701'
GL: 3676'



Bit Size: 12-1/4"
9-5/8", 36#, J-55, LTC,
@ 0' - 1,260'

Bit Size: 8-3/4"
7-5/8", 29.7#, HCP-110, FXL,
@ 0' - 11,231'

Bit Size: 6-3/4"
5-1/2", 20#, P110-EC, DWC/C IS MS,
@ 0' - 10,731'
5-1/2", 20#, P110-EC, Vam Sprint SF,
@ 10,731' - 11,231'
5-1/2", 20#, P110-EC, DWC/C IS MS,
@ 11,231' - 19,979'

KOP: 11,926' MD, 11,866' TVD
EOC: 12,676' MD, 12,344' TVD

TOC: 10,731' MD, 10,670' TVD

Lateral: 19,979' MD, 12,344' TVD
Upper Most Perf:
2541' FNL & 2025' FEL Sec. 33
Lower Most Perf:
100' FNL & 2025' FEL Sec. 28
BH Location: 100' FNL & 2025' FEL
Sec. 28
T-23-S R-32-E

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Froderick 33 Fed Com 714H

Design B

4. CASING PROGRAM

Hole Size	Interval MD From (ft)	Interval MD To (ft)	Interval TVD From (ft)	Interval TVD To (ft)	Csg OD	Weight	Grade	Conn
13"	0	1,260	0	1,260	10-3/4"	40.5#	J-55	STC
9-7/8"	0	11,231	0	11,170	8-3/4"	38.5#	P110-EC	SLIJ II NA
7-7/8"	0	19,979	0	12,344	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
1,260' 10-3/4"	320	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 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 @ 1,060')
11,170' 8-3/4"	570	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 6,870')
	1340	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
19,979' 6"	1310	13.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,670')

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Froderick 33 Fed Com 714H

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 (7,071') 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 335 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.

Wellhead & Offline Cementing:

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.a.i) 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 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 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.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"

eog resources

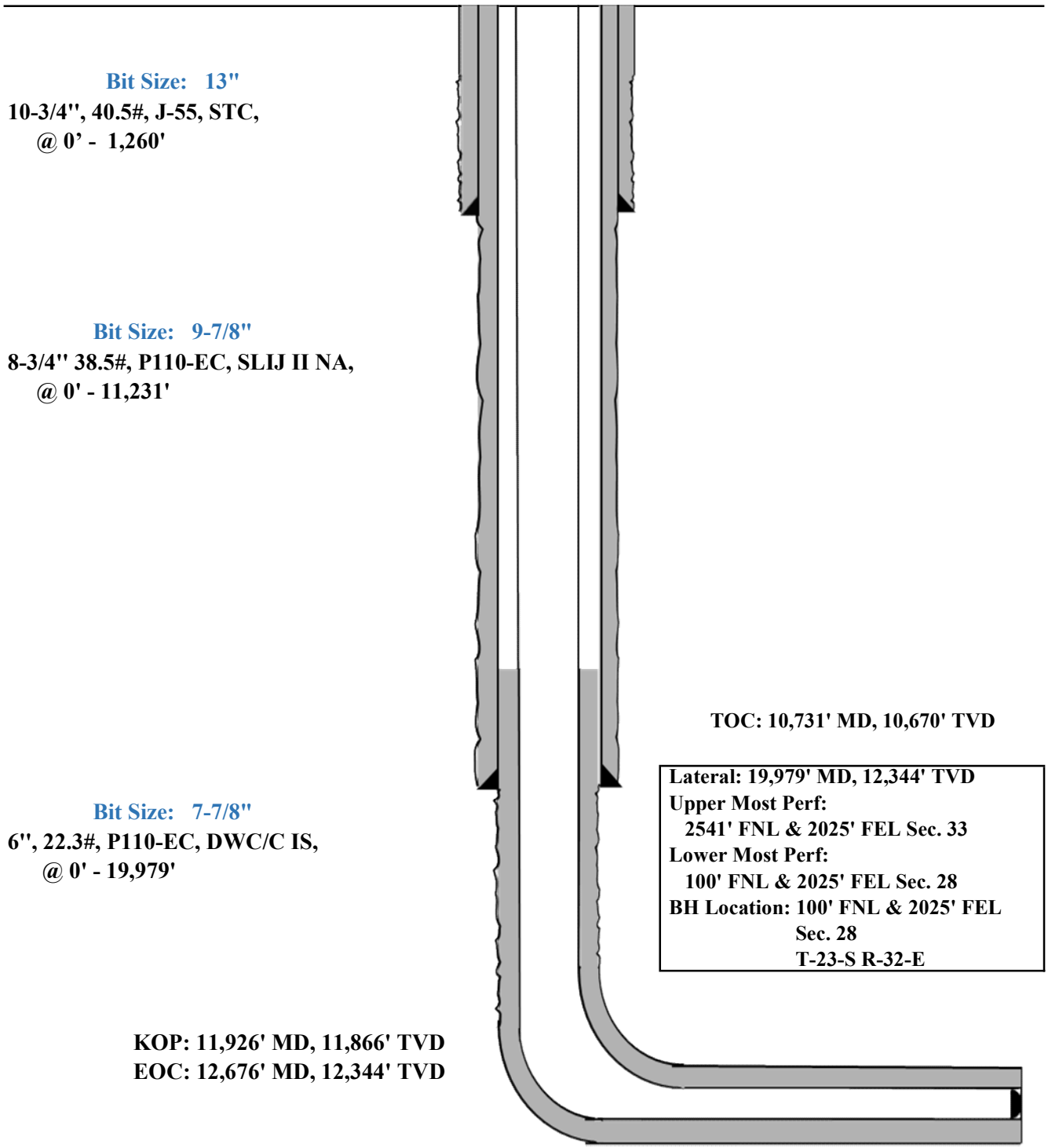
Froderick 33 Fed Com 714H

2316' FNL
2512' FWL
Section 33
T-23-S, R-32-E

Proposed Wellbore

KB: 3701'
GL: 3676'

API: 30-025-***



eog resources

Froderick 33 Fed Com 714H

GEOLOGIC NAME OF SURFACE FORMATION:

Permian

ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,176'
Tamarisk Anhydrite	1,236'
Top of Salt	1,471'
Base of Salt	4,661'
Lamar	4,900'
Bell Canyon	4,927'
Cherry Canyon	5,656'
Brushy Canyon	7,071'
Bone Spring Lime	8,702'
Leonard (Avalon) Shale	8,869'
1st Bone Spring Sand	9,877'
2nd Bone Spring Shale	10,122'
2nd Bone Spring Sand	10,461'
3rd Bone Spring Carb	11,072'
3rd Bone Spring Sand	11,791'
Wolfcamp	12,148'
TD	12,344'

ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0- 400’	Fresh Water
Bell Canyon	4,927'	Oil
Cherry Canyon	5,656'	Oil
Brushy Canyon	7,071'	Oil
Leonard (Avalon) Shale	8,869'	Oil
1st Bone Spring Sand	9,877'	Oil
2nd Bone Spring Shale	10,122'	Oil
2nd Bone Spring Sand	10,461'	Oil

Midland

Lea County, NM (NAD 83 NME)
Froderick 33 Fed Com
#714H

OH

Plan: Plan #0.1 RT

Standard Planning Report

09 June, 2023

eog resources

Planning Report

Database:	PEDM	**Local Co-ordinate Reference:**	Well #714H
Company:	Midland	**TVD Reference:**	kb = 26' @ 3702.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	kb = 26' @ 3702.0usft
Site:	Froderick 33 Fed Com	**North Reference:**	Grid
Well:	#714H	**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 Froderick 33 Fed Com

Site Position:		**Northing:**	459,304.00 usft	**Latitude:**	32° 15' 39.510 N
From:	Map	**Easting:**	745,493.00 usft	**Longitude:**	103° 40' 22.334 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well #714H

Well Position	**+N/-S**	0.0 usft	**Northing:**	459,640.00 usft	**Latitude:**	32° 15' 42.969 N
	+E/-W	0.0 usft	**Easting:**	743,283.00 usft	**Longitude:**	103° 40' 48.047 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,676.0 usft
Grid Convergence:		0.35 °				

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/9/2023	6.37	59.85	47,296.92677672

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	5.32

Plan Survey Tool Program **Date** 6/9/2023

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,979.2	Plan #0.1 RT (OH)	EOG MWD+IFR1	
				MWD + IFR1	

eog resources

Planning Report

Database:	PEDM	**Local Co-ordinate Reference:**	Well #714H
Company:	Midland	**TVD Reference:**	kb = 26' @ 3702.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	kb = 26' @ 3702.0usft
Site:	Froderick 33 Fed Com	**North Reference:**	Grid
Well:	#714H	**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	
1,471.0	0.00	0.00	1,471.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,908.6	8.75	109.71	1,906.9	-11.2	31.4	2.00	2.00	0.00	109.71	
6,692.5	8.75	109.71	6,635.1	-256.8	716.6	0.00	0.00	0.00	0.00	
7,130.1	0.00	0.01	7,071.0	-268.0	748.0	2.00	-2.00	0.00	180.00	
11,925.6	0.00	0.01	11,866.5	-268.0	748.0	0.00	0.00	0.00	0.00	KOP(Froderick 33 Fe
12,146.0	26.46	358.85	12,079.2	-218.0	747.0	12.00	12.00	-0.52	358.85	FTP(Froderick 33 Fec
12,675.5	90.00	359.67	12,343.9	209.4	742.6	12.00	12.00	0.15	0.91	
19,979.2	90.00	359.67	12,344.0	7,513.0	700.0	0.00	0.00	0.00	0.00	PBHL(Froderick 33 Fe

eog resources

Planning Report

Database:	PEDM	**Local Co-ordinate Reference:**	Well #714H
Company:	Midland	**TVD Reference:**	kb = 26' @ 3702.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	kb = 26' @ 3702.0usft
Site:	Froderick 33 Fed Com	**North Reference:**	Grid
Well:	#714H	**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
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,471.0	0.00	0.00	1,471.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.58	109.71	1,500.0	0.0	0.1	0.0	2.00	2.00	0.00
1,600.0	2.58	109.71	1,600.0	-1.0	2.7	-0.7	2.00	2.00	0.00
1,700.0	4.58	109.71	1,699.8	-3.1	8.6	-2.3	2.00	2.00	0.00
1,800.0	6.58	109.71	1,799.3	-6.4	17.8	-4.7	2.00	2.00	0.00
1,908.6	8.75	109.71	1,906.9	-11.2	31.4	-8.3	2.00	2.00	0.00
2,000.0	8.75	109.71	1,997.2	-15.9	44.5	-11.7	0.00	0.00	0.00
2,100.0	8.75	109.71	2,096.1	-21.1	58.8	-15.5	0.00	0.00	0.00
2,200.0	8.75	109.71	2,194.9	-26.2	73.1	-19.3	0.00	0.00	0.00
2,300.0	8.75	109.71	2,293.7	-31.3	87.5	-23.1	0.00	0.00	0.00
2,400.0	8.75	109.71	2,392.6	-36.5	101.8	-26.9	0.00	0.00	0.00
2,500.0	8.75	109.71	2,491.4	-41.6	116.1	-30.6	0.00	0.00	0.00
2,600.0	8.75	109.71	2,590.3	-46.7	130.4	-34.4	0.00	0.00	0.00
2,700.0	8.75	109.71	2,689.1	-51.9	144.8	-38.2	0.00	0.00	0.00
2,800.0	8.75	109.71	2,787.9	-57.0	159.1	-42.0	0.00	0.00	0.00
2,900.0	8.75	109.71	2,886.8	-62.1	173.4	-45.8	0.00	0.00	0.00
3,000.0	8.75	109.71	2,985.6	-67.3	187.7	-49.6	0.00	0.00	0.00
3,100.0	8.75	109.71	3,084.4	-72.4	202.0	-53.3	0.00	0.00	0.00
3,200.0	8.75	109.71	3,183.3	-77.5	216.4	-57.1	0.00	0.00	0.00
3,300.0	8.75	109.71	3,282.1	-82.7	230.7	-60.9	0.00	0.00	0.00
3,400.0	8.75	109.71	3,380.9	-87.8	245.0	-64.7	0.00	0.00	0.00
3,500.0	8.75	109.71	3,479.8	-92.9	259.3	-68.5	0.00	0.00	0.00
3,600.0	8.75	109.71	3,578.6	-98.0	273.7	-72.2	0.00	0.00	0.00
3,700.0	8.75	109.71	3,677.4	-103.2	288.0	-76.0	0.00	0.00	0.00
3,800.0	8.75	109.71	3,776.3	-108.3	302.3	-79.8	0.00	0.00	0.00
3,900.0	8.75	109.71	3,875.1	-113.4	316.6	-83.6	0.00	0.00	0.00
4,000.0	8.75	109.71	3,974.0	-118.6	331.0	-87.4	0.00	0.00	0.00
4,100.0	8.75	109.71	4,072.8	-123.7	345.3	-91.1	0.00	0.00	0.00
4,200.0	8.75	109.71	4,171.6	-128.8	359.6	-94.9	0.00	0.00	0.00
4,300.0	8.75	109.71	4,270.5	-134.0	373.9	-98.7	0.00	0.00	0.00
4,400.0	8.75	109.71	4,369.3	-139.1	388.2	-102.5	0.00	0.00	0.00
4,500.0	8.75	109.71	4,468.1	-144.2	402.6	-106.3	0.00	0.00	0.00
4,600.0	8.75	109.71	4,567.0	-149.4	416.9	-110.0	0.00	0.00	0.00
4,700.0	8.75	109.71	4,665.8	-154.5	431.2	-113.8	0.00	0.00	0.00
4,800.0	8.75	109.71	4,764.6	-159.6	445.5	-117.6	0.00	0.00	0.00
4,900.0	8.75	109.71	4,863.5	-164.8	459.9	-121.4	0.00	0.00	0.00
5,000.0	8.75	109.71	4,962.3	-169.9	474.2	-125.2	0.00	0.00	0.00
5,100.0	8.75	109.71	5,061.1	-175.0	488.5	-129.0	0.00	0.00	0.00
5,200.0	8.75	109.71	5,160.0	-180.2	502.8	-132.7	0.00	0.00	0.00

eog resources

Planning Report

Database:	PEDM	**Local Co-ordinate Reference:**	Well #714H
Company:	Midland	**TVD Reference:**	kb = 26' @ 3702.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	kb = 26' @ 3702.0usft
Site:	Froderick 33 Fed Com	**North Reference:**	Grid
Well:	#714H	**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	8.75	109.71	5,258.8	-185.3	517.2	-136.5	0.00	0.00	0.00
5,400.0	8.75	109.71	5,357.7	-190.4	531.5	-140.3	0.00	0.00	0.00
5,500.0	8.75	109.71	5,456.5	-195.6	545.8	-144.1	0.00	0.00	0.00
5,600.0	8.75	109.71	5,555.3	-200.7	560.1	-147.9	0.00	0.00	0.00
5,700.0	8.75	109.71	5,654.2	-205.8	574.4	-151.6	0.00	0.00	0.00
5,800.0	8.75	109.71	5,753.0	-210.9	588.8	-155.4	0.00	0.00	0.00
5,900.0	8.75	109.71	5,851.8	-216.1	603.1	-159.2	0.00	0.00	0.00
6,000.0	8.75	109.71	5,950.7	-221.2	617.4	-163.0	0.00	0.00	0.00
6,100.0	8.75	109.71	6,049.5	-226.3	631.7	-166.8	0.00	0.00	0.00
6,200.0	8.75	109.71	6,148.3	-231.5	646.1	-170.5	0.00	0.00	0.00
6,300.0	8.75	109.71	6,247.2	-236.6	660.4	-174.3	0.00	0.00	0.00
6,400.0	8.75	109.71	6,346.0	-241.7	674.7	-178.1	0.00	0.00	0.00
6,500.0	8.75	109.71	6,444.8	-246.9	689.0	-181.9	0.00	0.00	0.00
6,600.0	8.75	109.71	6,543.7	-252.0	703.3	-185.7	0.00	0.00	0.00
6,692.5	8.75	109.71	6,635.1	-256.8	716.6	-189.2	0.00	0.00	0.00
6,700.0	8.60	109.71	6,642.5	-257.1	717.7	-189.4	2.00	-2.00	0.00
6,800.0	6.60	109.71	6,741.6	-261.6	730.1	-192.7	2.00	-2.00	0.00
6,900.0	4.60	109.71	6,841.2	-264.9	739.3	-195.2	2.00	-2.00	0.00
7,000.0	2.60	109.71	6,941.0	-267.0	745.2	-196.7	2.00	-2.00	0.00
7,100.0	0.60	109.71	7,040.9	-267.9	747.9	-197.4	2.00	-2.00	0.00
7,130.1	0.00	0.01	7,071.0	-268.0	748.0	-197.5	2.00	-2.00	0.00
7,200.0	0.00	0.00	7,140.9	-268.0	748.0	-197.5	0.00	0.00	0.00
7,300.0	0.00	0.00	7,240.9	-268.0	748.0	-197.5	0.00	0.00	0.00
7,400.0	0.00	0.00	7,340.9	-268.0	748.0	-197.5	0.00	0.00	0.00
7,500.0	0.00	0.00	7,440.9	-268.0	748.0	-197.5	0.00	0.00	0.00
7,600.0	0.00	0.00	7,540.9	-268.0	748.0	-197.5	0.00	0.00	0.00
7,700.0	0.00	0.00	7,640.9	-268.0	748.0	-197.5	0.00	0.00	0.00
7,800.0	0.00	0.00	7,740.9	-268.0	748.0	-197.5	0.00	0.00	0.00
7,900.0	0.00	0.00	7,840.9	-268.0	748.0	-197.5	0.00	0.00	0.00
8,000.0	0.00	0.00	7,940.9	-268.0	748.0	-197.5	0.00	0.00	0.00
8,100.0	0.00	0.00	8,040.9	-268.0	748.0	-197.5	0.00	0.00	0.00
8,200.0	0.00	0.00	8,140.9	-268.0	748.0	-197.5	0.00	0.00	0.00
8,300.0	0.00	0.00	8,240.9	-268.0	748.0	-197.5	0.00	0.00	0.00
8,400.0	0.00	0.00	8,340.9	-268.0	748.0	-197.5	0.00	0.00	0.00
8,500.0	0.00	0.00	8,440.9	-268.0	748.0	-197.5	0.00	0.00	0.00
8,600.0	0.00	0.00	8,540.9	-268.0	748.0	-197.5	0.00	0.00	0.00
8,700.0	0.00	0.00	8,640.9	-268.0	748.0	-197.5	0.00	0.00	0.00
8,800.0	0.00	0.00	8,740.9	-268.0	748.0	-197.5	0.00	0.00	0.00
8,900.0	0.00	0.00	8,840.9	-268.0	748.0	-197.5	0.00	0.00	0.00
9,000.0	0.00	0.00	8,940.9	-268.0	748.0	-197.5	0.00	0.00	0.00
9,100.0	0.00	0.00	9,040.9	-268.0	748.0	-197.5	0.00	0.00	0.00
9,200.0	0.00	0.00	9,140.9	-268.0	748.0	-197.5	0.00	0.00	0.00
9,300.0	0.00	0.00	9,240.9	-268.0	748.0	-197.5	0.00	0.00	0.00
9,400.0	0.00	0.00	9,340.9	-268.0	748.0	-197.5	0.00	0.00	0.00
9,500.0	0.00	0.00	9,440.9	-268.0	748.0	-197.5	0.00	0.00	0.00
9,600.0	0.00	0.00	9,540.9	-268.0	748.0	-197.5	0.00	0.00	0.00
9,700.0	0.00	0.00	9,640.9	-268.0	748.0	-197.5	0.00	0.00	0.00
9,800.0	0.00	0.00	9,740.9	-268.0	748.0	-197.5	0.00	0.00	0.00
9,900.0	0.00	0.00	9,840.9	-268.0	748.0	-197.5	0.00	0.00	0.00
10,000.0	0.00	0.00	9,940.9	-268.0	748.0	-197.5	0.00	0.00	0.00
10,100.0	0.00	0.00	10,040.9	-268.0	748.0	-197.5	0.00	0.00	0.00
10,200.0	0.00	0.00	10,140.9	-268.0	748.0	-197.5	0.00	0.00	0.00
10,300.0	0.00	0.00	10,240.9	-268.0	748.0	-197.5	0.00	0.00	0.00
10,400.0	0.00	0.00	10,340.9	-268.0	748.0	-197.5	0.00	0.00	0.00

eog resources

Planning Report

Database:	PEDM	**Local Co-ordinate Reference:**	Well #714H
Company:	Midland	**TVD Reference:**	kb = 26' @ 3702.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	kb = 26' @ 3702.0usft
Site:	Froderick 33 Fed Com	**North Reference:**	Grid
Well:	#714H	**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	10,440.9	-268.0	748.0	-197.5	0.00	0.00	0.00
10,600.0	0.00	0.00	10,540.9	-268.0	748.0	-197.5	0.00	0.00	0.00
10,700.0	0.00	0.00	10,640.9	-268.0	748.0	-197.5	0.00	0.00	0.00
10,800.0	0.00	0.00	10,740.9	-268.0	748.0	-197.5	0.00	0.00	0.00
10,900.0	0.00	0.00	10,840.9	-268.0	748.0	-197.5	0.00	0.00	0.00
11,000.0	0.00	0.00	10,940.9	-268.0	748.0	-197.5	0.00	0.00	0.00
11,100.0	0.00	0.00	11,040.9	-268.0	748.0	-197.5	0.00	0.00	0.00
11,200.0	0.00	0.00	11,140.9	-268.0	748.0	-197.5	0.00	0.00	0.00
11,300.0	0.00	0.00	11,240.9	-268.0	748.0	-197.5	0.00	0.00	0.00
11,400.0	0.00	0.00	11,340.9	-268.0	748.0	-197.5	0.00	0.00	0.00
11,500.0	0.00	0.00	11,440.9	-268.0	748.0	-197.5	0.00	0.00	0.00
11,600.0	0.00	0.00	11,540.9	-268.0	748.0	-197.5	0.00	0.00	0.00
11,700.0	0.00	0.00	11,640.9	-268.0	748.0	-197.5	0.00	0.00	0.00
11,800.0	0.00	0.00	11,740.9	-268.0	748.0	-197.5	0.00	0.00	0.00
11,900.0	0.00	0.00	11,840.9	-268.0	748.0	-197.5	0.00	0.00	0.00
11,925.6	0.00	0.01	11,866.5	-268.0	748.0	-197.5	0.00	0.00	0.00
KOP(Froderick 33 Fed Com #714H)									
11,950.0	2.93	358.85	11,890.9	-267.4	748.0	-196.8	12.00	12.00	0.00
11,975.0	5.93	358.85	11,915.8	-265.4	747.9	-194.9	12.00	12.00	0.00
12,000.0	8.93	358.85	11,940.6	-262.2	747.9	-191.7	12.00	12.00	0.00
12,025.0	11.93	358.85	11,965.2	-257.7	747.8	-187.2	12.00	12.00	0.00
12,050.0	14.93	358.85	11,989.5	-251.9	747.7	-181.4	12.00	12.00	0.00
12,075.0	17.93	358.85	12,013.5	-244.8	747.5	-174.4	12.00	12.00	0.00
12,100.0	20.93	358.85	12,037.1	-236.5	747.4	-166.1	12.00	12.00	0.00
12,125.0	23.94	358.85	12,060.2	-227.0	747.2	-156.7	12.00	12.00	0.00
12,146.0	26.46	358.85	12,079.2	-218.0	747.0	-147.8	12.00	12.00	0.00
FTP(Froderick 33 Fed Com #714H)									
12,150.0	26.94	358.87	12,082.7	-216.2	747.0	-146.0	12.00	12.00	0.42
12,175.0	29.94	358.96	12,104.7	-204.3	746.7	-134.2	12.00	12.00	0.37
12,200.0	32.94	359.04	12,126.0	-191.3	746.5	-121.2	12.00	12.00	0.31
12,225.0	35.94	359.11	12,146.7	-177.2	746.3	-107.2	12.00	12.00	0.26
12,250.0	38.94	359.17	12,166.5	-162.0	746.1	-92.1	12.00	12.00	0.23
12,275.0	41.94	359.22	12,185.5	-145.8	745.8	-75.9	12.00	12.00	0.20
12,300.0	44.94	359.26	12,203.7	-128.6	745.6	-58.8	12.00	12.00	0.18
12,325.0	47.93	359.30	12,220.9	-110.5	745.4	-40.8	12.00	12.00	0.16
12,350.0	50.93	359.34	12,237.2	-91.5	745.1	-21.9	12.00	12.00	0.15
12,375.0	53.93	359.37	12,252.4	-71.7	744.9	-2.2	12.00	12.00	0.13
12,400.0	56.93	359.40	12,266.6	-51.1	744.7	18.2	12.00	12.00	0.12
12,425.0	59.93	359.43	12,279.7	-29.8	744.5	39.4	12.00	12.00	0.12
12,450.0	62.93	359.46	12,291.6	-7.8	744.3	61.3	12.00	12.00	0.11
12,475.0	65.93	359.49	12,302.4	14.7	744.1	83.7	12.00	12.00	0.10
12,500.0	68.93	359.51	12,312.0	37.8	743.9	106.7	12.00	12.00	0.10
12,525.0	71.93	359.53	12,320.4	61.4	743.7	130.1	12.00	12.00	0.10
12,550.0	74.93	359.56	12,327.5	85.3	743.5	153.9	12.00	12.00	0.09
12,575.0	77.93	359.58	12,333.4	109.6	743.3	178.1	12.00	12.00	0.09
12,600.0	80.93	359.60	12,338.0	134.2	743.1	202.6	12.00	12.00	0.09
12,625.0	83.93	359.62	12,341.2	159.0	743.0	227.2	12.00	12.00	0.09
12,650.0	86.93	359.64	12,343.2	183.9	742.8	252.0	12.00	12.00	0.09
12,675.5	90.00	359.67	12,343.9	209.4	742.6	277.4	12.00	12.00	0.08
12,700.0	90.00	359.67	12,343.9	233.9	742.5	301.8	0.00	0.00	0.00
12,800.0	90.00	359.67	12,343.9	333.9	741.9	401.3	0.00	0.00	0.00
12,900.0	90.00	359.67	12,343.9	433.9	741.3	500.8	0.00	0.00	0.00
13,000.0	90.00	359.67	12,343.9	533.9	740.7	600.3	0.00	0.00	0.00
13,100.0	90.00	359.67	12,343.9	633.9	740.2	699.8	0.00	0.00	0.00

eog resources

Planning Report

Database:	PEDM	**Local Co-ordinate Reference:**	Well #714H
Company:	Midland	**TVD Reference:**	kb = 26' @ 3702.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	kb = 26' @ 3702.0usft
Site:	Froderick 33 Fed Com	**North Reference:**	Grid
Well:	#714H	**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)
13,200.0	90.00	359.67	12,343.9	733.9	739.6	799.3	0.00	0.00	0.00
13,300.0	90.00	359.67	12,343.9	833.9	739.0	898.8	0.00	0.00	0.00
13,400.0	90.00	359.67	12,343.9	933.9	738.4	998.3	0.00	0.00	0.00
13,500.0	90.00	359.67	12,343.9	1,033.9	737.8	1,097.9	0.00	0.00	0.00
13,600.0	90.00	359.67	12,343.9	1,133.9	737.2	1,197.4	0.00	0.00	0.00
13,700.0	90.00	359.67	12,343.9	1,233.9	736.7	1,296.9	0.00	0.00	0.00
13,800.0	90.00	359.67	12,343.9	1,333.9	736.1	1,396.4	0.00	0.00	0.00
13,900.0	90.00	359.67	12,343.9	1,433.9	735.5	1,495.9	0.00	0.00	0.00
14,000.0	90.00	359.67	12,343.9	1,533.9	734.9	1,595.4	0.00	0.00	0.00
14,100.0	90.00	359.67	12,343.9	1,633.9	734.3	1,694.9	0.00	0.00	0.00
14,200.0	90.00	359.67	12,343.9	1,733.9	733.7	1,794.4	0.00	0.00	0.00
14,300.0	90.00	359.67	12,343.9	1,833.9	733.2	1,894.0	0.00	0.00	0.00
14,400.0	90.00	359.67	12,343.9	1,933.9	732.6	1,993.5	0.00	0.00	0.00
14,500.0	90.00	359.67	12,343.9	2,033.8	732.0	2,093.0	0.00	0.00	0.00
14,600.0	90.00	359.67	12,343.9	2,133.8	731.4	2,192.5	0.00	0.00	0.00
14,700.0	90.00	359.67	12,343.9	2,233.8	730.8	2,292.0	0.00	0.00	0.00
14,800.0	90.00	359.67	12,343.9	2,333.8	730.2	2,391.5	0.00	0.00	0.00
14,900.0	90.00	359.67	12,343.9	2,433.8	729.7	2,491.0	0.00	0.00	0.00
15,000.0	90.00	359.67	12,343.9	2,533.8	729.1	2,590.5	0.00	0.00	0.00
15,100.0	90.00	359.67	12,343.9	2,633.8	728.5	2,690.1	0.00	0.00	0.00
15,200.0	90.00	359.67	12,343.9	2,733.8	727.9	2,789.6	0.00	0.00	0.00
15,300.0	90.00	359.67	12,343.9	2,833.8	727.3	2,889.1	0.00	0.00	0.00
15,400.0	90.00	359.67	12,343.9	2,933.8	726.7	2,988.6	0.00	0.00	0.00
15,500.0	90.00	359.67	12,343.9	3,033.8	726.1	3,088.1	0.00	0.00	0.00
15,600.0	90.00	359.67	12,344.0	3,133.8	725.6	3,187.6	0.00	0.00	0.00
15,700.0	90.00	359.67	12,344.0	3,233.8	725.0	3,287.1	0.00	0.00	0.00
15,800.0	90.00	359.67	12,344.0	3,333.8	724.4	3,386.7	0.00	0.00	0.00
15,900.0	90.00	359.67	12,344.0	3,433.8	723.8	3,486.2	0.00	0.00	0.00
16,000.0	90.00	359.67	12,344.0	3,533.8	723.2	3,585.7	0.00	0.00	0.00
16,100.0	90.00	359.67	12,344.0	3,633.8	722.6	3,685.2	0.00	0.00	0.00
16,200.0	90.00	359.67	12,344.0	3,733.8	722.1	3,784.7	0.00	0.00	0.00
16,300.0	90.00	359.67	12,344.0	3,833.8	721.5	3,884.2	0.00	0.00	0.00
16,400.0	90.00	359.67	12,344.0	3,933.8	720.9	3,983.7	0.00	0.00	0.00
16,500.0	90.00	359.67	12,344.0	4,033.8	720.3	4,083.2	0.00	0.00	0.00
16,600.0	90.00	359.67	12,344.0	4,133.8	719.7	4,182.8	0.00	0.00	0.00
16,700.0	90.00	359.67	12,344.0	4,233.8	719.1	4,282.3	0.00	0.00	0.00
16,800.0	90.00	359.67	12,344.0	4,333.8	718.6	4,381.8	0.00	0.00	0.00
16,900.0	90.00	359.67	12,344.0	4,433.8	718.0	4,481.3	0.00	0.00	0.00
17,000.0	90.00	359.67	12,344.0	4,533.8	717.4	4,580.8	0.00	0.00	0.00
17,100.0	90.00	359.67	12,344.0	4,633.8	716.8	4,680.3	0.00	0.00	0.00
17,200.0	90.00	359.67	12,344.0	4,733.8	716.2	4,779.8	0.00	0.00	0.00
17,300.0	90.00	359.67	12,344.0	4,833.8	715.6	4,879.3	0.00	0.00	0.00
17,400.0	90.00	359.67	12,344.0	4,933.8	715.1	4,978.9	0.00	0.00	0.00
17,500.0	90.00	359.67	12,344.0	5,033.8	714.5	5,078.4	0.00	0.00	0.00
17,600.0	90.00	359.67	12,344.0	5,133.8	713.9	5,177.9	0.00	0.00	0.00
17,700.0	90.00	359.67	12,344.0	5,233.8	713.3	5,277.4	0.00	0.00	0.00
17,800.0	90.00	359.67	12,344.0	5,333.8	712.7	5,376.9	0.00	0.00	0.00
17,900.0	90.00	359.67	12,344.0	5,433.8	712.1	5,476.4	0.00	0.00	0.00
18,000.0	90.00	359.67	12,344.0	5,533.8	711.6	5,575.9	0.00	0.00	0.00
18,100.0	90.00	359.67	12,344.0	5,633.8	711.0	5,675.4	0.00	0.00	0.00
18,200.0	90.00	359.67	12,344.0	5,733.8	710.4	5,775.0	0.00	0.00	0.00
18,300.0	90.00	359.67	12,344.0	5,833.8	709.8	5,874.5	0.00	0.00	0.00
18,400.0	90.00	359.67	12,344.0	5,933.8	709.2	5,974.0	0.00	0.00	0.00
18,500.0	90.00	359.67	12,344.0	6,033.8	708.6	6,073.5	0.00	0.00	0.00

eog resources

Planning Report

Database:	PEDM	**Local Co-ordinate Reference:**	Well #714H
Company:	Midland	**TVD Reference:**	kb = 26' @ 3702.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	kb = 26' @ 3702.0usft
Site:	Froderick 33 Fed Com	**North Reference:**	Grid
Well:	#714H	**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)
18,600.0	90.00	359.67	12,344.0	6,133.8	708.1	6,173.0	0.00	0.00	0.00
18,700.0	90.00	359.67	12,344.0	6,233.8	707.5	6,272.5	0.00	0.00	0.00
18,800.0	90.00	359.67	12,344.0	6,333.8	706.9	6,372.0	0.00	0.00	0.00
18,900.0	90.00	359.67	12,344.0	6,433.8	706.3	6,471.6	0.00	0.00	0.00
19,000.0	90.00	359.67	12,344.0	6,533.8	705.7	6,571.1	0.00	0.00	0.00
19,100.0	90.00	359.67	12,344.0	6,633.8	705.1	6,670.6	0.00	0.00	0.00
19,200.0	90.00	359.67	12,344.0	6,733.8	704.5	6,770.1	0.00	0.00	0.00
19,300.0	90.00	359.67	12,344.0	6,833.8	704.0	6,869.6	0.00	0.00	0.00
19,400.0	90.00	359.67	12,344.0	6,933.8	703.4	6,969.1	0.00	0.00	0.00
19,500.0	90.00	359.67	12,344.0	7,033.8	702.8	7,068.6	0.00	0.00	0.00
19,600.0	90.00	359.67	12,344.0	7,133.8	702.2	7,168.1	0.00	0.00	0.00
19,700.0	90.00	359.67	12,344.0	7,233.8	701.6	7,267.7	0.00	0.00	0.00
19,800.0	90.00	359.67	12,344.0	7,333.8	701.0	7,367.2	0.00	0.00	0.00
19,900.0	90.00	359.67	12,344.0	7,433.8	700.5	7,466.7	0.00	0.00	0.00
19,979.2	90.00	359.67	12,344.0	7,513.0	700.0	7,545.5	0.00	0.00	0.00
PBHL(Froderick 33 Fed Com #714H)									

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(Froderick 33 Fed C - plan hits target center - Point	0.00	0.01	11,866.5	-268.0	748.0	459,372.00	744,031.00	32° 15' 40.272 N	103° 40' 39.355 W
FTP(Froderick 33 Fed C - plan hits target center - Point	0.00	0.00	12,079.2	-218.0	747.0	459,422.00	744,030.00	32° 15' 40.767 N	103° 40' 39.363 W
PBHL(Froderick 33 Fed - plan hits target center - Point	0.00	0.00	12,344.0	7,513.0	700.0	467,153.00	743,983.00	32° 16' 57.271 N	103° 40' 39.360 W

eog resources

Lea County, NM (NAD 83 NME)

Froderick 33 Fed Com #714H

Plan #0.1 RT

Azimuths to Grid North
True North: -0.35°
Magnetic North: 6.02°

Magnetic Field
Strength: 47296.9nT
Dip Angle: 59.85°
Date: 6/9/2023
Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 6.02°
To convert a Magnetic Direction to a True Direction, Add 6.37° East
To convert a True Direction to a Grid Direction, Subtract 0.35°

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: #714H

3676.0
kb = 26' @ 3702.0usft

Northing	Easting	Latittude	Longitude
459640.00	743283.00	32° 15' 42.969 N	103° 40' 48.047 W

SECTION DETAILS

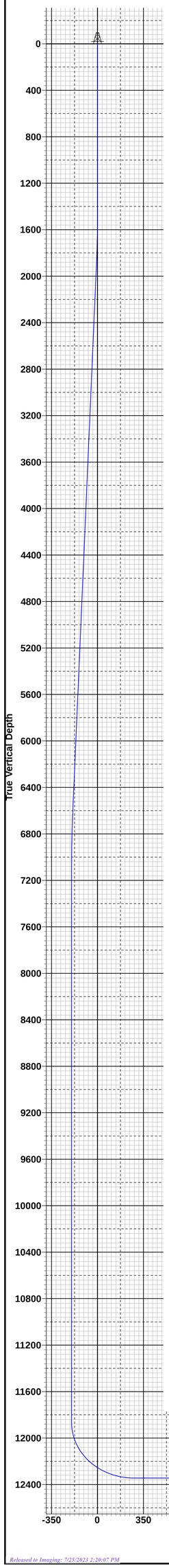
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1471.0	0.00	0.00	1471.0	0.0	0.0	0.00	0.00	0.0	
3	1908.6	8.75	109.71	1906.9	-11.2	31.4	2.00	109.71	-8.3	
4	6692.5	8.75	109.71	6635.1	-256.8	716.6	0.00	0.00	-189.2	
5	7130.1	0.00	0.00	7071.0	-268.0	748.0	2.00	180.00	-197.5	
6	11925.6	0.00	0.00	11866.5	-268.0	748.0	0.00	0.00	-197.5	KOP(Froderick 33 Fed Com #714H)
7	12146.0	26.46	358.85	12079.2	-218.0	747.0	12.00	358.85	-147.8	FTP(Froderick 33 Fed Com #714H)
8	12675.5	90.00	359.67	12343.9	209.4	742.6	12.00	0.91	277.4	
9	19979.2	90.00	359.67	12344.0	7513.0	700.0	0.00	0.00	7545.5	PBHL(Froderick 33 Fed Com #714H)

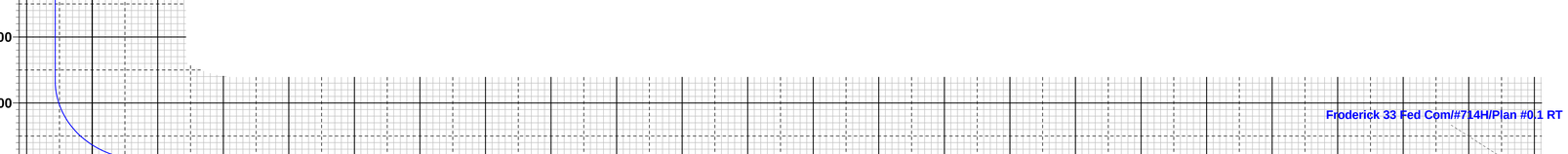
CASING DETAILS

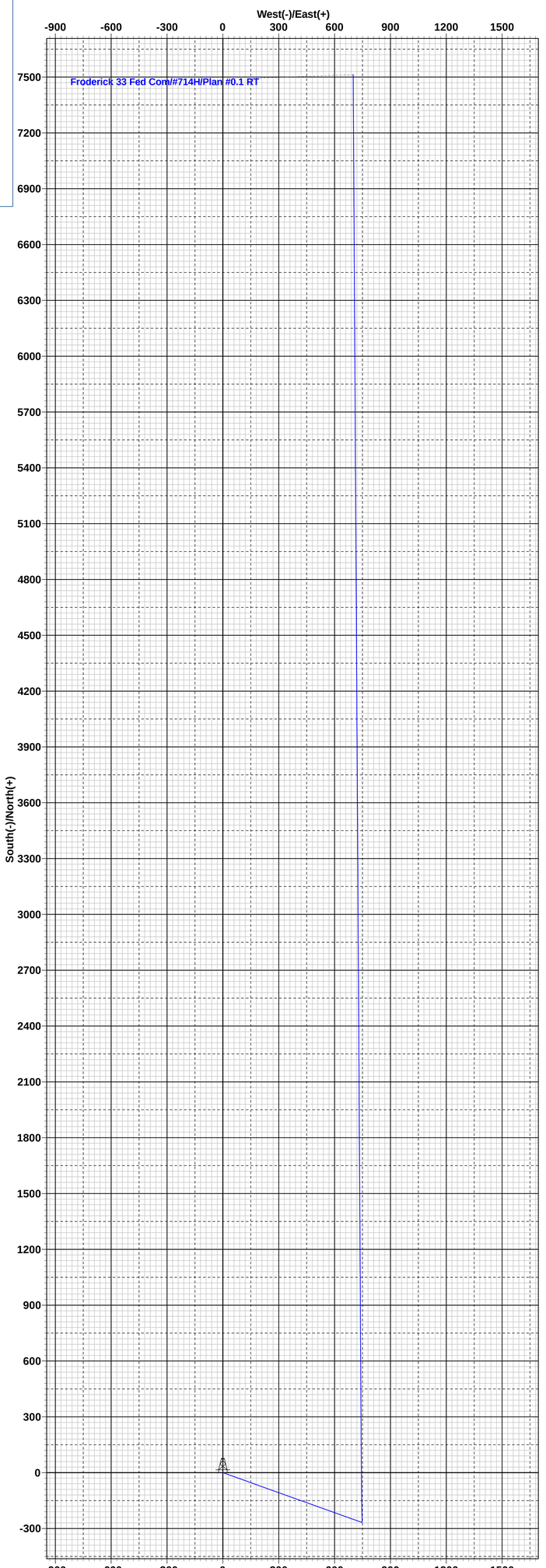
No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Froderick 33 Fed Com #714H)	11866.5	-268.0	748.0	459372.00	744031.00
FTP(Froderick 33 Fed Com #714H)	12079.2	-218.0	747.0	459422.00	744030.00
PBHL(Froderick 33 Fed Com #714H)	12344.0	7513.0	700.0	467153.00	743983.00







Lea County, NM (NAD 83 NME)
Froderick 33 Fed Com
#714H
OH
Plan #0.1 RT
11:17, June 09 2023

eog resources

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 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.

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 **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 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.

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.

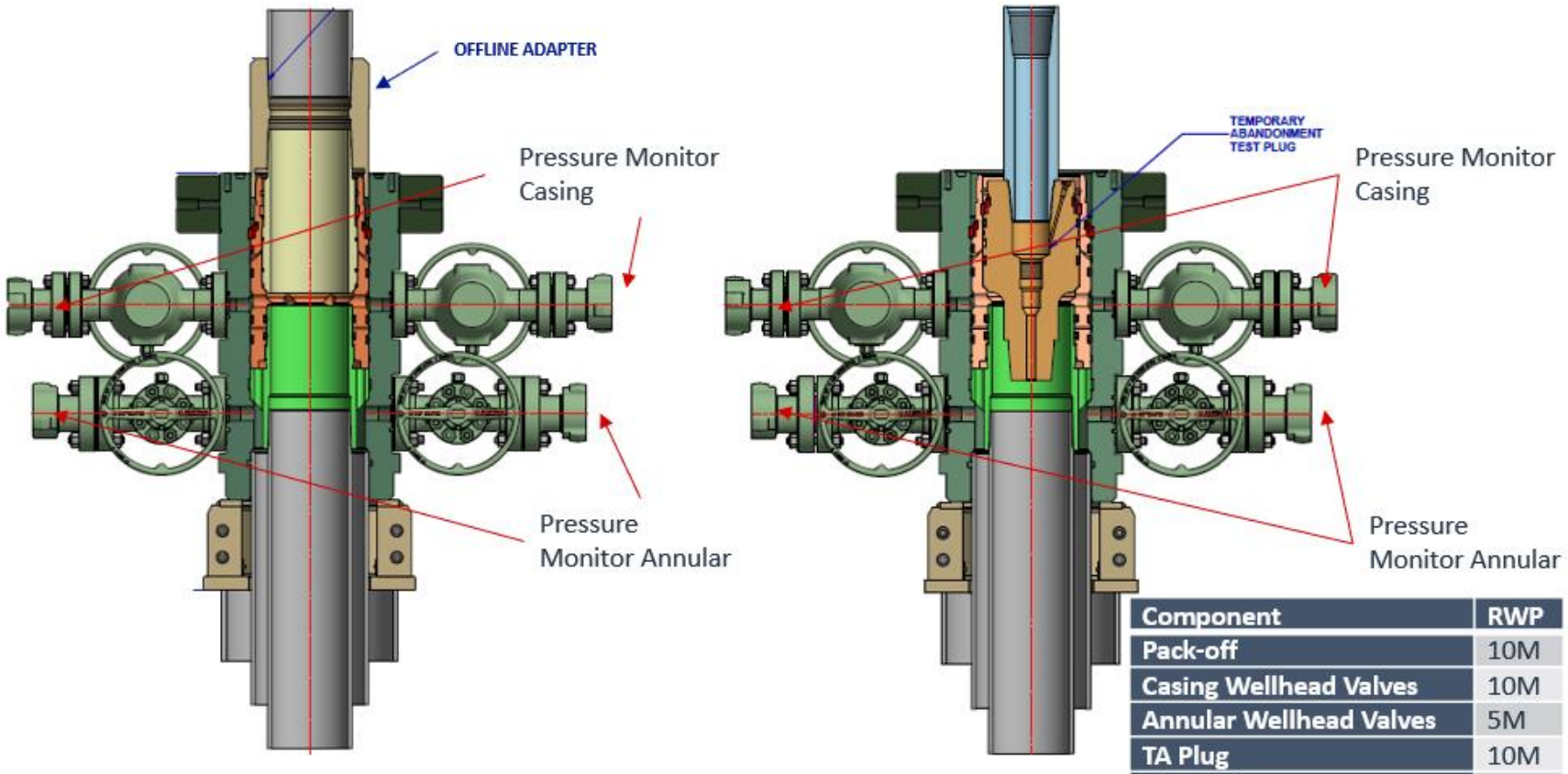
General Procedure While Cementing

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

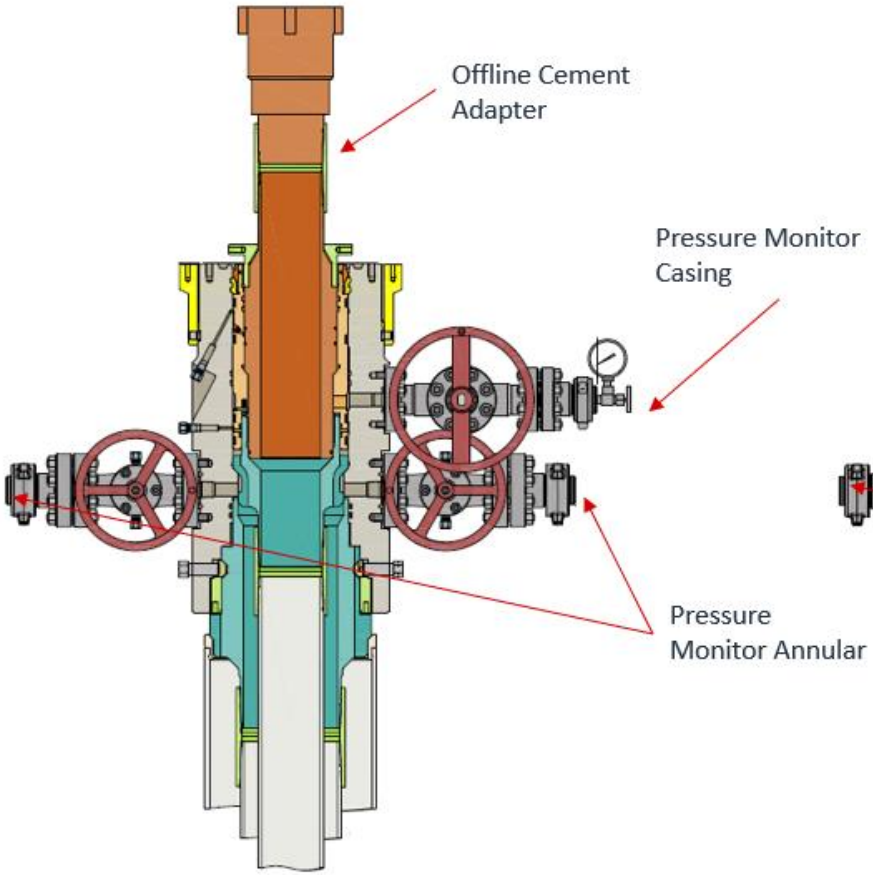
1. Sound alarm (alert crew).
2. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
3. Confirm shut-in.
4. Notify tool pusher/company representative.
5. Read and record the following:
    a. SICP and AP
    b. Pit gain
    c. Time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

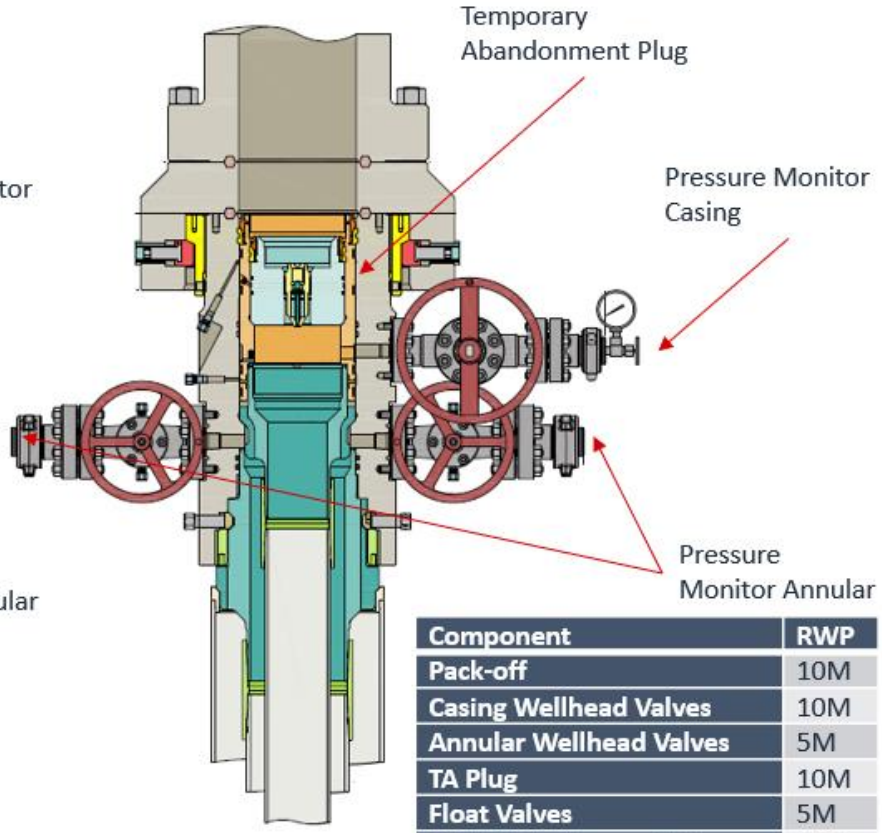
Figure 1: Cameron TA Plug and Offline Adapter Schematic



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

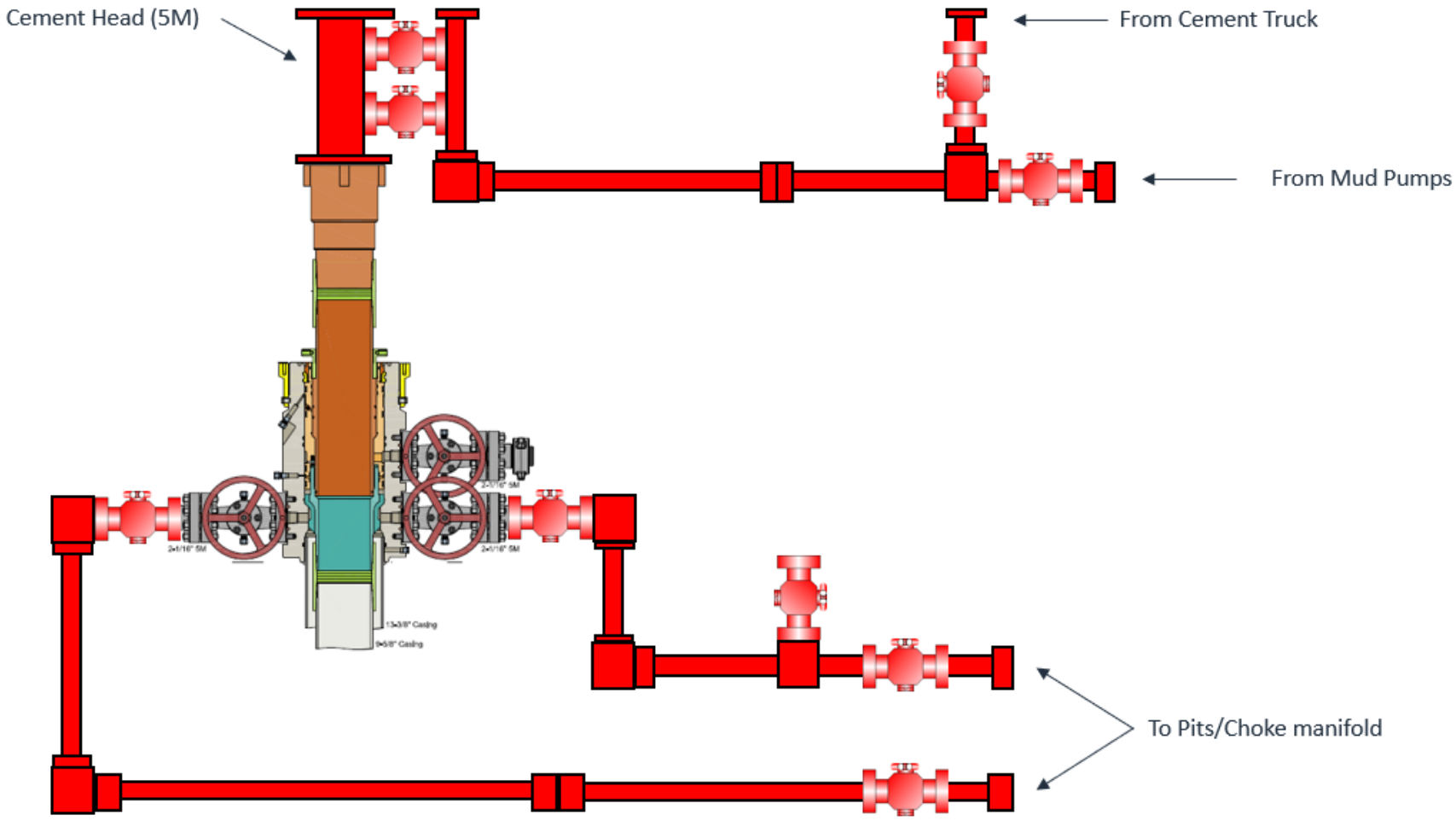
Figure 2: Cactus TA Plug and Offline Adapter Schematic





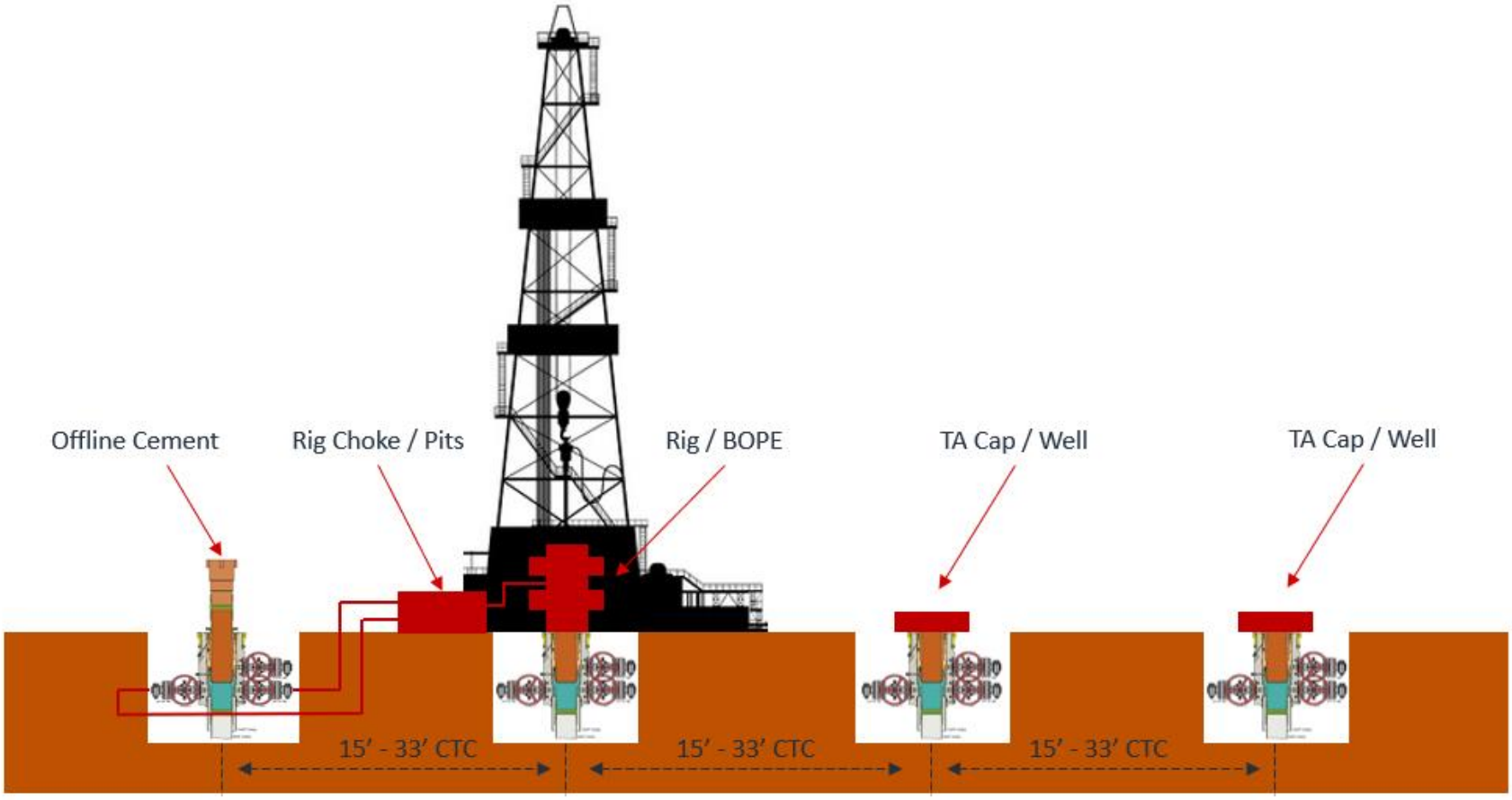
Component	RWP
Pack-off	10M
Casing Wellhead Valves	10M
Annular Wellhead Valves	5M
TA Plug	10M
Float Valves	5M
2" 1502 Lo-Torque Valves	15M

Figure 3: Back Yard Rig Up



*** All Lines 10M rated working pressure

Figure 4: Rig Placement Diagram



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CONDITIONS

Action 241231

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 241231
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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