

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM110835
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator EOG Resources, Incorporated		8. Lease Name and Well No. Ruthless 11 Fed Com 722H
3a. Address 1111 Bagby St., Sky Lobby 2 Houston TX 77002		9. API Well No. 30-025-50462
3b. Phone No. (include area code) (713) 651-7000		10. Field and Pool, or Exploratory 98180 WC025 G09 S253309P; Up Wolfc
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NENW/562 FNL/1597 FWL/ Lat 32.1507459/ Long -103.6490713 At proposed prod. zone SESW/100 FSL/ 2590 FWL/ Lat 32.1235108/Long -103.6459724		11. Sec., T. R. M. or Blk. and Survey or Area Sec 11/T25S/R32E/NMP
14. Distance in miles and direction from nearest town or post office*		12. County or Parish Lea
		13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 100 feet	16. No of acres in lease 1600	17. Spacing Unit dedicated to this well 640.00
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 33 feet	19. Proposed Depth 12527 feet/22850 feet	20. BLM/BIA Bond No. in file FED NM2308
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3498 feet	22. Approximate date work will start* 8/10/2022	23. Estimated duration 25 days
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature <i>Star L Harrell</i>	Name (Printed/Typed) Star L Harrell	Date 8/9/2022
Title Sr Regulatory Specialist		
Approved by (Signature)	Name (Printed/Typed) Chris Walls	Date 08/15/2022
Title Sup. PE	Office CFO	

Application approval 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.

Conditions of approval, if any, are attached.

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.

(Continued on page 2)

*(Instructions on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws 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, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: 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 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., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

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

The BLM connects this information to an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. 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 Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025- 50462	² Pool Code 98180	³ Pool Name WC-025 G-09 S253309P; Upper Wolfcamp
⁴ Property Code 329701	⁵ Property Name RUTHLESS 11 FED COM	
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁶ Well Number 722H
⁹ Elevation 3498'		

¹⁰Surface Location

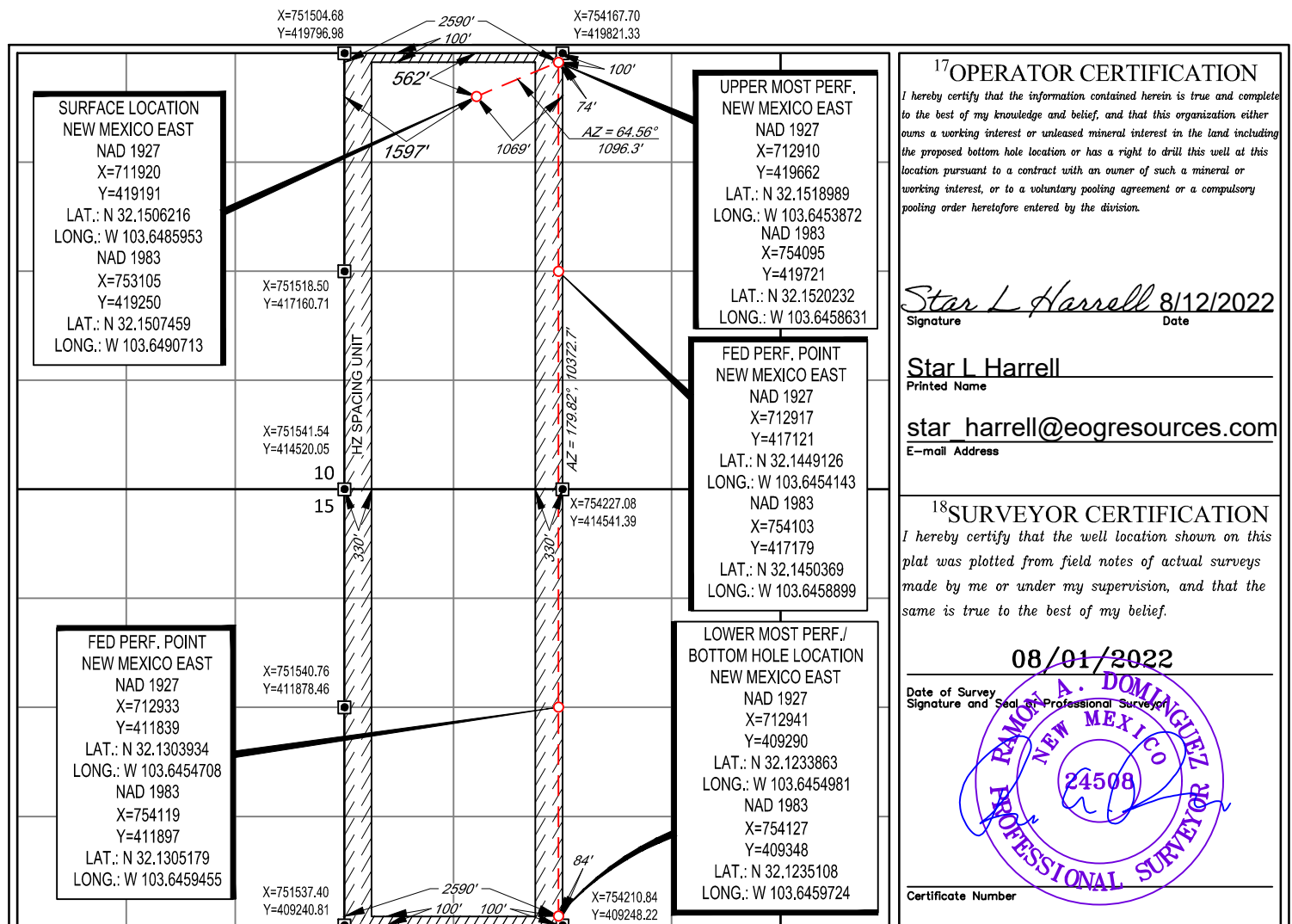
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	11	25-S	32-E	-	562'	NORTH	1597'	WEST	LEA

¹¹Bottom 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
N	14	25-S	32-E	-	100'	SOUTH	2590'	WEST	LEA

¹² Dedicated Acres 640.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.





Ruthless 11 Fed Com 722H

Revised Permit Information 08/10/2022:

Well Name: Ruthless 11 Fed Com 722H

Location: SHL: 562' FNL & 1597' FWL, Section 11, T-25-S, R-32-E, Lea Co., N.M.

BHL: 100' FSL & 2590' FWL, Section 14, T-25-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)				
12-1/4"	0	940	0	940	9-5/8"	36#	J-55	LTC
8-3/4"	0	11,200	0	11,100	7-5/8"	29.7#	HCP-110	FXL
6-3/4"	0	10,700	0	10,600	5-1/2"	20#	P110-EC	DWC/C IS MS
6-3/4"	10,700	11,200	10,600	11,100	5-1/2"	20#	P110-EC	Vam Sprint SF
6-3/4"	11,200	22,850	11,100	12,527	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
940' 9-5/8"	270	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 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 @ 740')
11,100' 7-5/8"	480	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,050')
	1210	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
22,850' 5-1/2"	1040	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,600')



Ruthless 11 Fed Com 722H

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 (7,254') 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 210 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 – 940'	Fresh - Gel	8.6-8.8	28-34	N/c
940' – 11,100'	Brine	10.0-10.2	28-34	N/c
11,100' – 12,155'	Oil Base	8.7-9.4	58-68	N/c - 6
12,155' – 22,850' Lateral	Oil Base	10.0-14.0	58-68	4 - 6



Ruthless 11 Fed Com 722H

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 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 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"



Ruthless 11 Fed Com 722H

562' FNL
1597' FWL
Section 11
T-25-S, R-32-E

Revised Wellbore

KB: 3523'
GL: 3498'

API: 30-025-*****

Bit Size: 12-1/4"

9-5/8", 36#, J-55, LTC,
@ 0' - 940'

Bit Size: 8-3/4"

7-5/8", 29.7#, HCP-110, FXL,
@ 0' - 11,100'

Bit Size: 6-3/4"

5-1/2", 20#, P110-EC, DWC/C IS MS,
@ 0' - 10,600'

5-1/2", 20#, P110-EC, Vam Sprint SF,
@ 10,600' - 11,100'

5-1/2", 20#, P110-EC, DWC/C IS MS,
@ 11,100' - 22,850'

KOP: 12,155' MD, 12,050' TVD
EOC: 12,905' MD, 12,527' TVD

TOC: 10,700' MD, 10,600' TVD

Lateral: 22,850' MD, 12,527' TVD

Upper Most Perf:

100' FNL & 2590' FWL Sec. 11

Lower Most Perf:

100' FSL & 2590' FWL Sec. 14

BH Location: 100' FSL & 2590' FWL
Sec. 14
T-25-S R-32-E



Ruthless 11 Fed Com 722H

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	940	0	940	10-3/4"	40.5#	J-55	STC
9-7/8"	0	11,200	0	11,100	8-3/4"	38.5#	P110-EC	Vam Sprint-SF
7-7/8"	0	22,850	0	12,527	6"	24#	P110-HP	Eagle SFH SC

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
940' 10-3/4"	250	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 @ 740')
11,100' 8-3/4"	540	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,050')
	1370	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
22,850' 6"	1710	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,600')



Ruthless 11 Fed Com 722H

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 (7,254') 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 368 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:

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- 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"



Ruthless 11 Fed Com 722H

562' FNL
1597' FWL
Section 11
T-25-S, R-32-E

Proposed Wellbore

KB: 3523'
GL: 3498'

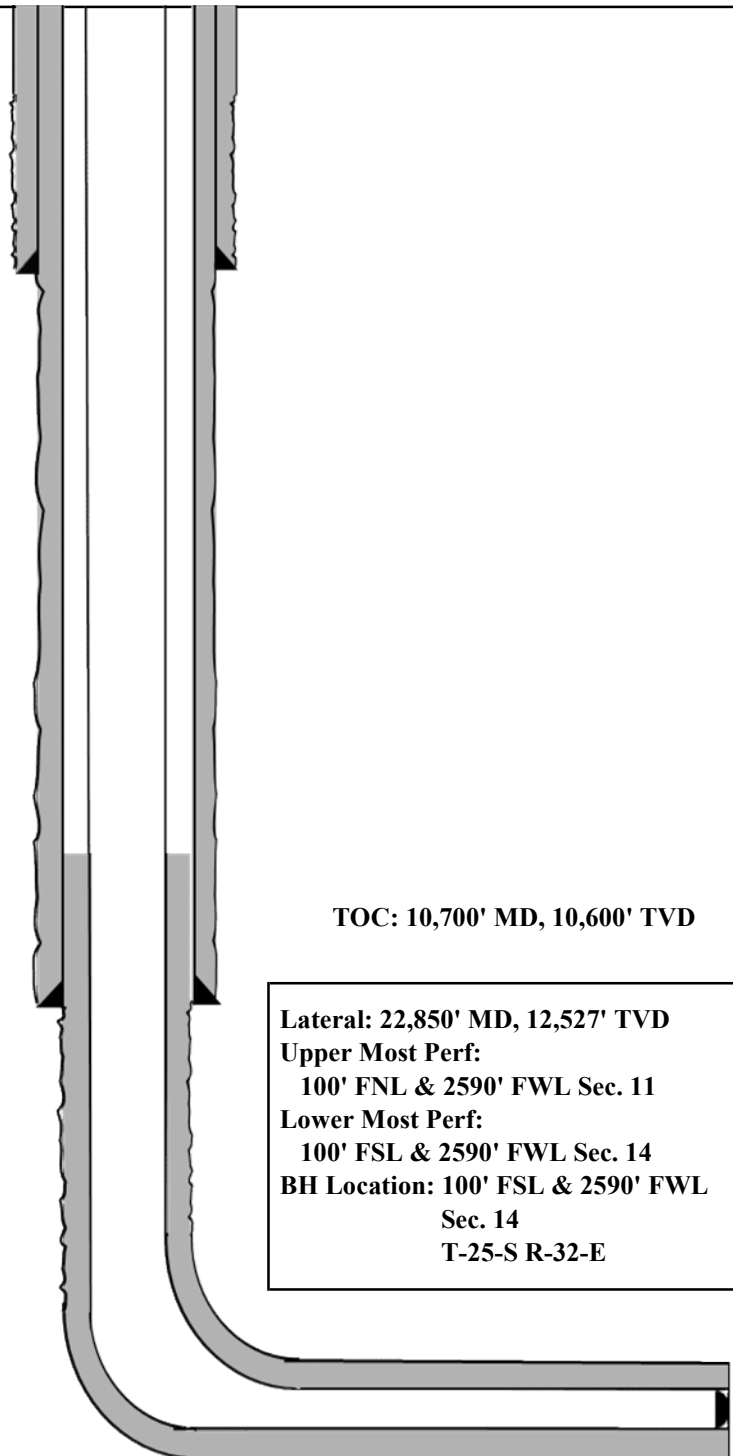
API: 30-025-*****

Bit Size: 13"
10-3/4", 40.5#, J-55, STC,
@ 0' - 940'

Bit Size: 9-7/8"
8-3/4" 38.5#, P110-EC, Vam Sprint-SF,
@ 0' - 11,100'

Bit Size: 7-7/8"
6", 24#, P110-HP, Eagle SFH SC,
@ 0' - 22,850'

KOP: 12,155' MD, 12,050' TVD
EOC: 12,905' MD, 12,527' TVD





Midland

**Lea County, NM (NAD 83 NME)
Ruthless 11 Fed Com
#722H**

OH

Plan: Plan #0.1 RT

Standard Planning Report

04 August, 2022

EOG Resources

Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #722H
Company:	Midland	TVD Reference:	kb = 26' @ 3526.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3526.0usft
Site:	Ruthless 11 Fed Com	North Reference:	Grid
Well:	#722H	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		Ruthless 11 Fed Com			
Site Position:		Northing:	419,142.00 usft	Latitude:	32° 9' 1.687 N
From:	Map	Easting:	752,042.00 usft	Longitude:	103° 39' 9.029 W
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	

Well	#727H					
Well Position	+N/-S	0.0 usft	Northing:	419,250.00 usft	Latitude:	32° 9' 2.689 N
	+E/-W	0.0 usft	Easting:	753,105.00 usft	Longitude:	103° 38' 56.657 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,500.0 usft
Grid Convergence:		0.36 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/24/2022	6.48	59.80	47,361.77238731

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	174.11	

Plan Survey Tool Program	Date	8/4/2022			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	22,850.4 Plan #0.1 RT (OH)	EOG MWD+IFR1		
			MWD + IFR1		

EOG Resources

Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #722H
Company:	Midland	TVD Reference:	kb = 26' @ 3526.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3526.0usft
Site:	Ruthless 11 Fed Com	North Reference:	Grid
Well:	#722H	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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,555.5	11.11	62.24	1,552.0	25.0	47.5	2.00	2.00	0.00	62.24	
6,803.8	11.11	62.24	6,702.0	496.0	942.5	0.00	0.00	0.00	0.00	
7,359.3	0.00	0.00	7,254.0	521.0	990.0	2.00	-2.00	0.00	180.00	
12,154.8	0.00	0.00	12,049.5	521.0	990.0	0.00	0.00	0.00	0.00	KOP(Ruthless 11 Fed
12,375.3	26.46	180.00	12,262.2	471.0	990.0	12.00	12.00	81.65	180.00	FTP(Ruthless 11 Fed
12,904.8	90.00	179.81	12,526.9	43.6	991.0	12.00	12.00	-0.04	-0.21	
15,019.3	90.00	179.81	12,527.0	-2,071.0	998.0	0.00	0.00	0.00	0.00	Fed Perf 1(Ruthless 1
20,301.4	90.00	179.84	12,527.0	-7,353.0	1,014.0	0.00	0.00	0.00	84.64	Fed Perf 2(Ruthless 1
22,850.4	90.00	179.80	12,527.0	-9,902.0	1,022.0	0.00	0.00	0.00	-93.90	PBHL(Ruthless 11 Fe

EOG Resources

Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #722H
Company:	Midland	TVD Reference:	kb = 26' @ 3526.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3526.0usft
Site:	Ruthless 11 Fed Com	North Reference:	Grid
Well:	#722H	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	2.00	62.24	1,100.0	0.8	1.5	-0.6	2.00	2.00	0.00
1,200.0	4.00	62.24	1,199.8	3.2	6.2	-2.6	2.00	2.00	0.00
1,300.0	6.00	62.24	1,299.5	7.3	13.9	-5.8	2.00	2.00	0.00
1,400.0	8.00	62.24	1,398.7	13.0	24.7	-10.4	2.00	2.00	0.00
1,500.0	10.00	62.24	1,497.5	20.3	38.5	-16.2	2.00	2.00	0.00
1,555.5	11.11	62.24	1,552.0	25.0	47.5	-20.0	2.00	2.00	0.00
1,600.0	11.11	62.24	1,595.7	29.0	55.1	-23.2	0.00	0.00	0.00
1,700.0	11.11	62.24	1,693.8	38.0	72.2	-30.4	0.00	0.00	0.00
1,800.0	11.11	62.24	1,791.9	46.9	89.2	-37.5	0.00	0.00	0.00
1,900.0	11.11	62.24	1,890.1	55.9	106.3	-44.7	0.00	0.00	0.00
2,000.0	11.11	62.24	1,988.2	64.9	123.3	-51.9	0.00	0.00	0.00
2,100.0	11.11	62.24	2,086.3	73.9	140.4	-59.1	0.00	0.00	0.00
2,200.0	11.11	62.24	2,184.4	82.8	157.4	-66.2	0.00	0.00	0.00
2,300.0	11.11	62.24	2,282.6	91.8	174.5	-73.4	0.00	0.00	0.00
2,400.0	11.11	62.24	2,380.7	100.8	191.5	-80.6	0.00	0.00	0.00
2,500.0	11.11	62.24	2,478.8	109.8	208.6	-87.8	0.00	0.00	0.00
2,600.0	11.11	62.24	2,576.9	118.7	225.6	-94.9	0.00	0.00	0.00
2,700.0	11.11	62.24	2,675.1	127.7	242.7	-102.1	0.00	0.00	0.00
2,800.0	11.11	62.24	2,773.2	136.7	259.7	-109.3	0.00	0.00	0.00
2,900.0	11.11	62.24	2,871.3	145.7	276.8	-116.5	0.00	0.00	0.00
3,000.0	11.11	62.24	2,969.5	154.6	293.8	-123.7	0.00	0.00	0.00
3,100.0	11.11	62.24	3,067.6	163.6	310.9	-130.8	0.00	0.00	0.00
3,200.0	11.11	62.24	3,165.7	172.6	327.9	-138.0	0.00	0.00	0.00
3,300.0	11.11	62.24	3,263.8	181.6	345.0	-145.2	0.00	0.00	0.00
3,400.0	11.11	62.24	3,362.0	190.5	362.0	-152.4	0.00	0.00	0.00
3,500.0	11.11	62.24	3,460.1	199.5	379.1	-159.5	0.00	0.00	0.00
3,600.0	11.11	62.24	3,558.2	208.5	396.2	-166.7	0.00	0.00	0.00
3,700.0	11.11	62.24	3,656.3	217.5	413.2	-173.9	0.00	0.00	0.00
3,800.0	11.11	62.24	3,754.5	226.4	430.3	-181.1	0.00	0.00	0.00
3,900.0	11.11	62.24	3,852.6	235.4	447.3	-188.2	0.00	0.00	0.00
4,000.0	11.11	62.24	3,950.7	244.4	464.4	-195.4	0.00	0.00	0.00
4,100.0	11.11	62.24	4,048.8	253.4	481.4	-202.6	0.00	0.00	0.00
4,200.0	11.11	62.24	4,147.0	262.3	498.5	-209.8	0.00	0.00	0.00
4,300.0	11.11	62.24	4,245.1	271.3	515.5	-216.9	0.00	0.00	0.00
4,400.0	11.11	62.24	4,343.2	280.3	532.6	-224.1	0.00	0.00	0.00
4,500.0	11.11	62.24	4,441.3	289.2	549.6	-231.3	0.00	0.00	0.00
4,600.0	11.11	62.24	4,539.5	298.2	566.7	-238.5	0.00	0.00	0.00
4,700.0	11.11	62.24	4,637.6	307.2	583.7	-245.6	0.00	0.00	0.00
4,800.0	11.11	62.24	4,735.7	316.2	600.8	-252.8	0.00	0.00	0.00
4,900.0	11.11	62.24	4,833.8	325.1	617.8	-260.0	0.00	0.00	0.00
5,000.0	11.11	62.24	4,932.0	334.1	634.9	-267.2	0.00	0.00	0.00
5,100.0	11.11	62.24	5,030.1	343.1	651.9	-274.3	0.00	0.00	0.00
5,200.0	11.11	62.24	5,128.2	352.1	669.0	-281.5	0.00	0.00	0.00

EOG Resources

Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #722H
Company:	Midland	TVD Reference:	kb = 26' @ 3526.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3526.0usft
Site:	Ruthless 11 Fed Com	North Reference:	Grid
Well:	#722H	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	11.11	62.24	5,226.3	361.0	686.0	-288.7	0.00	0.00	0.00	
5,400.0	11.11	62.24	5,324.5	370.0	703.1	-295.9	0.00	0.00	0.00	
5,500.0	11.11	62.24	5,422.6	379.0	720.2	-303.1	0.00	0.00	0.00	
5,600.0	11.11	62.24	5,520.7	388.0	737.2	-310.2	0.00	0.00	0.00	
5,700.0	11.11	62.24	5,618.8	396.9	754.3	-317.4	0.00	0.00	0.00	
5,800.0	11.11	62.24	5,717.0	405.9	771.3	-324.6	0.00	0.00	0.00	
5,900.0	11.11	62.24	5,815.1	414.9	788.4	-331.8	0.00	0.00	0.00	
6,000.0	11.11	62.24	5,913.2	423.9	805.4	-338.9	0.00	0.00	0.00	
6,100.0	11.11	62.24	6,011.4	432.8	822.5	-346.1	0.00	0.00	0.00	
6,200.0	11.11	62.24	6,109.5	441.8	839.5	-353.3	0.00	0.00	0.00	
6,300.0	11.11	62.24	6,207.6	450.8	856.6	-360.5	0.00	0.00	0.00	
6,400.0	11.11	62.24	6,305.7	459.8	873.6	-367.6	0.00	0.00	0.00	
6,500.0	11.11	62.24	6,403.9	468.7	890.7	-374.8	0.00	0.00	0.00	
6,600.0	11.11	62.24	6,502.0	477.7	907.7	-382.0	0.00	0.00	0.00	
6,700.0	11.11	62.24	6,600.1	486.7	924.8	-389.2	0.00	0.00	0.00	
6,803.8	11.11	62.24	6,702.0	496.0	942.5	-396.6	0.00	0.00	0.00	
6,900.0	9.19	62.24	6,796.7	503.9	957.5	-402.9	2.00	-2.00	0.00	
7,000.0	7.19	62.24	6,895.6	510.5	970.1	-408.2	2.00	-2.00	0.00	
7,100.0	5.19	62.24	6,995.0	515.5	979.6	-412.2	2.00	-2.00	0.00	
7,200.0	3.19	62.24	7,094.8	518.9	986.1	-415.0	2.00	-2.00	0.00	
7,300.0	1.19	62.24	7,194.7	520.7	989.5	-416.4	2.00	-2.00	0.00	
7,359.3	0.00	0.00	7,254.0	521.0	990.0	-416.6	2.00	-2.00	0.00	
7,400.0	0.00	0.00	7,294.7	521.0	990.0	-416.6	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,394.7	521.0	990.0	-416.6	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,494.7	521.0	990.0	-416.6	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,594.7	521.0	990.0	-416.6	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,694.7	521.0	990.0	-416.6	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,794.7	521.0	990.0	-416.6	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,894.7	521.0	990.0	-416.6	0.00	0.00	0.00	
8,100.0	0.00	0.00	7,994.7	521.0	990.0	-416.6	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,094.7	521.0	990.0	-416.6	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,194.7	521.0	990.0	-416.6	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,294.7	521.0	990.0	-416.6	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,394.7	521.0	990.0	-416.6	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,494.7	521.0	990.0	-416.6	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,594.7	521.0	990.0	-416.6	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,694.7	521.0	990.0	-416.6	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,794.7	521.0	990.0	-416.6	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,894.7	521.0	990.0	-416.6	0.00	0.00	0.00	
9,100.0	0.00	0.00	8,994.7	521.0	990.0	-416.6	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,094.7	521.0	990.0	-416.6	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,194.7	521.0	990.0	-416.6	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,294.7	521.0	990.0	-416.6	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,394.7	521.0	990.0	-416.6	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,494.7	521.0	990.0	-416.6	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,594.7	521.0	990.0	-416.6	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,694.7	521.0	990.0	-416.6	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,794.7	521.0	990.0	-416.6	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,894.7	521.0	990.0	-416.6	0.00	0.00	0.00	
10,100.0	0.00	0.00	9,994.7	521.0	990.0	-416.6	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,094.7	521.0	990.0	-416.6	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,194.7	521.0	990.0	-416.6	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,294.7	521.0	990.0	-416.6	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,394.7	521.0	990.0	-416.6	0.00	0.00	0.00	

EOG Resources

Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #722H
Company:	Midland	TVD Reference:	kb = 26' @ 3526.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3526.0usft
Site:	Ruthless 11 Fed Com	North Reference:	Grid
Well:	#722H	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)
10,600.0	0.00	0.00	10,494.7	521.0	990.0	-416.6	0.00	0.00	0.00
10,700.0	0.00	0.00	10,594.7	521.0	990.0	-416.6	0.00	0.00	0.00
10,800.0	0.00	0.00	10,694.7	521.0	990.0	-416.6	0.00	0.00	0.00
10,900.0	0.00	0.00	10,794.7	521.0	990.0	-416.6	0.00	0.00	0.00
11,000.0	0.00	0.00	10,894.7	521.0	990.0	-416.6	0.00	0.00	0.00
11,100.0	0.00	0.00	10,994.7	521.0	990.0	-416.6	0.00	0.00	0.00
11,200.0	0.00	0.00	11,094.7	521.0	990.0	-416.6	0.00	0.00	0.00
11,300.0	0.00	0.00	11,194.7	521.0	990.0	-416.6	0.00	0.00	0.00
11,400.0	0.00	0.00	11,294.7	521.0	990.0	-416.6	0.00	0.00	0.00
11,500.0	0.00	0.00	11,394.7	521.0	990.0	-416.6	0.00	0.00	0.00
11,600.0	0.00	0.00	11,494.7	521.0	990.0	-416.6	0.00	0.00	0.00
11,700.0	0.00	0.00	11,594.7	521.0	990.0	-416.6	0.00	0.00	0.00
11,800.0	0.00	0.00	11,694.7	521.0	990.0	-416.6	0.00	0.00	0.00
11,900.0	0.00	0.00	11,794.7	521.0	990.0	-416.6	0.00	0.00	0.00
12,000.0	0.00	0.00	11,894.7	521.0	990.0	-416.6	0.00	0.00	0.00
12,100.0	0.00	0.00	11,994.7	521.0	990.0	-416.6	0.00	0.00	0.00
12,154.8	0.00	0.00	12,049.5	521.0	990.0	-416.6	0.00	0.00	0.00
12,175.0	2.42	180.00	12,069.7	520.6	990.0	-416.2	12.00	12.00	0.00
12,200.0	5.42	180.00	12,094.6	518.9	990.0	-414.5	12.00	12.00	0.00
12,225.0	8.42	180.00	12,119.4	515.9	990.0	-411.5	12.00	12.00	0.00
12,250.0	11.42	180.00	12,144.1	511.5	990.0	-407.2	12.00	12.00	0.00
12,275.0	14.42	180.00	12,168.4	506.0	990.0	-401.6	12.00	12.00	0.00
12,300.0	17.42	180.00	12,192.5	499.1	990.0	-394.8	12.00	12.00	0.00
12,325.0	20.42	180.00	12,216.1	491.0	990.0	-386.8	12.00	12.00	0.00
12,350.0	23.42	180.00	12,239.3	481.7	990.0	-377.5	12.00	12.00	0.00
12,375.3	26.46	180.00	12,262.2	471.0	990.0	-366.9	12.00	12.00	0.00
12,400.0	29.43	179.98	12,284.0	459.4	990.0	-355.3	12.00	12.00	-0.09
12,425.0	32.43	179.96	12,305.5	446.6	990.0	-342.6	12.00	12.00	-0.08
12,450.0	35.43	179.94	12,326.2	432.6	990.0	-328.7	12.00	12.00	-0.06
12,475.0	38.43	179.93	12,346.2	417.6	990.0	-313.7	12.00	12.00	-0.05
12,500.0	41.43	179.92	12,365.4	401.6	990.1	-297.8	12.00	12.00	-0.05
12,525.0	44.43	179.91	12,383.7	384.5	990.1	-280.8	12.00	12.00	-0.04
12,550.0	47.43	179.90	12,401.1	366.6	990.1	-263.0	12.00	12.00	-0.04
12,575.0	50.43	179.89	12,417.5	347.7	990.2	-244.2	12.00	12.00	-0.03
12,600.0	53.43	179.88	12,432.9	328.0	990.2	-224.7	12.00	12.00	-0.03
12,625.0	56.43	179.87	12,447.3	307.6	990.2	-204.3	12.00	12.00	-0.03
12,650.0	59.43	179.87	12,460.6	286.4	990.3	-183.2	12.00	12.00	-0.03
12,675.0	62.43	179.86	12,472.7	264.6	990.3	-161.5	12.00	12.00	-0.03
12,700.0	65.43	179.85	12,483.7	242.1	990.4	-139.2	12.00	12.00	-0.02
12,725.0	68.43	179.85	12,493.5	219.1	990.5	-116.3	12.00	12.00	-0.02
12,750.0	71.43	179.84	12,502.1	195.6	990.5	-92.9	12.00	12.00	-0.02
12,775.0	74.43	179.84	12,509.4	171.7	990.6	-69.1	12.00	12.00	-0.02
12,800.0	77.43	179.83	12,515.5	147.5	990.7	-45.0	12.00	12.00	-0.02
12,825.0	80.43	179.83	12,520.3	123.0	990.7	-20.6	12.00	12.00	-0.02
12,850.0	83.43	179.82	12,523.8	98.2	990.8	4.0	12.00	12.00	-0.02
12,875.0	86.43	179.82	12,526.0	73.3	990.9	28.8	12.00	12.00	-0.02
12,900.0	89.43	179.81	12,526.9	48.3	991.0	53.7	12.00	12.00	-0.02
12,904.8	90.00	179.81	12,526.9	43.6	991.0	58.4	12.00	12.00	-0.02
13,000.0	90.00	179.81	12,526.9	-51.7	991.3	153.2	0.00	0.00	0.00
13,100.0	90.00	179.81	12,526.9	-151.7	991.6	252.7	0.00	0.00	0.00
13,200.0	90.00	179.81	12,527.0	-251.7	992.0	352.2	0.00	0.00	0.00
13,300.0	90.00	179.81	12,527.0	-351.7	992.3	451.7	0.00	0.00	0.00
13,400.0	90.00	179.81	12,527.0	-451.7	992.6	551.2	0.00	0.00	0.00
13,500.0	90.00	179.81	12,527.0	-551.7	993.0	650.7	0.00	0.00	0.00

EOG Resources

Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #722H
Company:	Midland	TVD Reference:	kb = 26' @ 3526.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3526.0usft
Site:	Ruthless 11 Fed Com	North Reference:	Grid
Well:	#722H	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)
13,600.0	90.00	179.81	12,527.0	-651.7	993.3	750.2	0.00	0.00	0.00
13,700.0	90.00	179.81	12,527.0	-751.7	993.6	849.7	0.00	0.00	0.00
13,800.0	90.00	179.81	12,527.0	-851.7	994.0	949.2	0.00	0.00	0.00
13,900.0	90.00	179.81	12,527.0	-951.7	994.3	1,048.7	0.00	0.00	0.00
14,000.0	90.00	179.81	12,527.0	-1,051.7	994.6	1,148.2	0.00	0.00	0.00
14,100.0	90.00	179.81	12,527.0	-1,151.7	994.9	1,247.7	0.00	0.00	0.00
14,200.0	90.00	179.81	12,527.0	-1,251.7	995.3	1,347.2	0.00	0.00	0.00
14,300.0	90.00	179.81	12,527.0	-1,351.7	995.6	1,446.7	0.00	0.00	0.00
14,400.0	90.00	179.81	12,527.0	-1,451.7	995.9	1,546.2	0.00	0.00	0.00
14,500.0	90.00	179.81	12,527.0	-1,551.7	996.3	1,645.7	0.00	0.00	0.00
14,600.0	90.00	179.81	12,527.0	-1,651.7	996.6	1,745.2	0.00	0.00	0.00
14,700.0	90.00	179.81	12,527.0	-1,751.7	996.9	1,844.8	0.00	0.00	0.00
14,800.0	90.00	179.81	12,527.0	-1,851.7	997.3	1,944.3	0.00	0.00	0.00
14,900.0	90.00	179.81	12,527.0	-1,951.7	997.6	2,043.8	0.00	0.00	0.00
15,000.0	90.00	179.81	12,527.0	-2,051.7	997.9	2,143.3	0.00	0.00	0.00
15,019.3	90.00	179.81	12,527.0	-2,071.0	998.0	2,162.5	0.00	0.00	0.00
15,100.0	90.00	179.81	12,527.0	-2,151.7	998.3	2,242.8	0.00	0.00	0.00
15,200.0	90.00	179.81	12,527.0	-2,251.7	998.6	2,342.3	0.00	0.00	0.00
15,300.0	90.00	179.81	12,527.0	-2,351.7	998.9	2,441.8	0.00	0.00	0.00
15,400.0	90.00	179.81	12,527.0	-2,451.7	999.3	2,541.3	0.00	0.00	0.00
15,500.0	90.00	179.81	12,527.0	-2,551.7	999.6	2,640.8	0.00	0.00	0.00
15,600.0	90.00	179.81	12,527.0	-2,651.7	999.9	2,740.3	0.00	0.00	0.00
15,700.0	90.00	179.81	12,527.0	-2,751.7	1,000.2	2,839.8	0.00	0.00	0.00
15,800.0	90.00	179.81	12,527.0	-2,851.7	1,000.6	2,939.3	0.00	0.00	0.00
15,900.0	90.00	179.82	12,527.0	-2,951.7	1,000.9	3,038.8	0.00	0.00	0.00
16,000.0	90.00	179.82	12,527.0	-3,051.7	1,001.2	3,138.3	0.00	0.00	0.00
16,100.0	90.00	179.82	12,527.0	-3,151.7	1,001.5	3,237.8	0.00	0.00	0.00
16,200.0	90.00	179.82	12,527.0	-3,251.7	1,001.8	3,337.3	0.00	0.00	0.00
16,300.0	90.00	179.82	12,527.0	-3,351.6	1,002.2	3,436.8	0.00	0.00	0.00
16,400.0	90.00	179.82	12,527.0	-3,451.6	1,002.5	3,536.3	0.00	0.00	0.00
16,500.0	90.00	179.82	12,527.0	-3,551.6	1,002.8	3,635.8	0.00	0.00	0.00
16,600.0	90.00	179.82	12,527.0	-3,651.6	1,003.1	3,735.3	0.00	0.00	0.00
16,700.0	90.00	179.82	12,527.0	-3,751.6	1,003.4	3,834.8	0.00	0.00	0.00
16,800.0	90.00	179.82	12,527.0	-3,851.6	1,003.7	3,934.3	0.00	0.00	0.00
16,900.0	90.00	179.82	12,527.0	-3,951.6	1,004.0	4,033.8	0.00	0.00	0.00
17,000.0	90.00	179.82	12,527.0	-4,051.6	1,004.4	4,133.4	0.00	0.00	0.00
17,100.0	90.00	179.82	12,527.0	-4,151.6	1,004.7	4,232.9	0.00	0.00	0.00
17,200.0	90.00	179.82	12,527.0	-4,251.6	1,005.0	4,332.4	0.00	0.00	0.00
17,300.0	90.00	179.82	12,527.0	-4,351.6	1,005.3	4,431.9	0.00	0.00	0.00
17,400.0	90.00	179.82	12,527.0	-4,451.6	1,005.6	4,531.4	0.00	0.00	0.00
17,500.0	90.00	179.83	12,527.0	-4,551.6	1,005.9	4,630.9	0.00	0.00	0.00
17,600.0	90.00	179.83	12,527.0	-4,651.6	1,006.2	4,730.4	0.00	0.00	0.00
17,700.0	90.00	179.83	12,527.0	-4,751.6	1,006.5	4,829.9	0.00	0.00	0.00
17,800.0	90.00	179.83	12,527.0	-4,851.6	1,006.8	4,929.4	0.00	0.00	0.00
17,900.0	90.00	179.83	12,527.0	-4,951.6	1,007.1	5,028.9	0.00	0.00	0.00
18,000.0	90.00	179.83	12,527.0	-5,051.6	1,007.4	5,128.4	0.00	0.00	0.00
18,100.0	90.00	179.83	12,527.0	-5,151.6	1,007.7	5,227.9	0.00	0.00	0.00
18,200.0	90.00	179.83	12,527.0	-5,251.6	1,008.0	5,327.4	0.00	0.00	0.00
18,300.0	90.00	179.83	12,527.0	-5,351.6	1,008.3	5,426.9	0.00	0.00	0.00
18,400.0	90.00	179.83	12,527.0	-5,451.6	1,008.6	5,526.4	0.00	0.00	0.00
18,500.0	90.00	179.83	12,527.0	-5,551.6	1,008.9	5,625.9	0.00	0.00	0.00
18,600.0	90.00	179.83	12,527.0	-5,651.6	1,009.2	5,725.4	0.00	0.00	0.00
18,700.0	90.00	179.83	12,527.0	-5,751.6	1,009.5	5,824.9	0.00	0.00	0.00
18,800.0	90.00	179.83	12,527.0	-5,851.6	1,009.8	5,924.4	0.00	0.00	0.00

EOG Resources

Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #722H
Company:	Midland	TVD Reference:	kb = 26' @ 3526.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3526.0usft
Site:	Ruthless 11 Fed Com	North Reference:	Grid
Well:	#722H	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)
18,900.0	90.00	179.83	12,527.0	-5,951.6	1,010.1	6,023.9	0.00	0.00	0.00
19,000.0	90.00	179.83	12,527.0	-6,051.6	1,010.3	6,123.4	0.00	0.00	0.00
19,100.0	90.00	179.84	12,527.0	-6,151.6	1,010.6	6,222.9	0.00	0.00	0.00
19,200.0	90.00	179.84	12,527.0	-6,251.6	1,010.9	6,322.4	0.00	0.00	0.00
19,300.0	90.00	179.84	12,527.0	-6,351.6	1,011.2	6,421.9	0.00	0.00	0.00
19,400.0	90.00	179.84	12,527.0	-6,451.6	1,011.5	6,521.4	0.00	0.00	0.00
19,500.0	90.00	179.84	12,527.0	-6,551.6	1,011.8	6,620.9	0.00	0.00	0.00
19,600.0	90.00	179.84	12,527.0	-6,651.6	1,012.1	6,720.4	0.00	0.00	0.00
19,700.0	90.00	179.84	12,527.0	-6,751.6	1,012.3	6,819.9	0.00	0.00	0.00
19,800.0	90.00	179.84	12,527.0	-6,851.6	1,012.6	6,919.4	0.00	0.00	0.00
19,900.0	90.00	179.84	12,527.0	-6,951.6	1,012.9	7,018.9	0.00	0.00	0.00
20,000.0	90.00	179.84	12,527.0	-7,051.6	1,013.2	7,118.4	0.00	0.00	0.00
20,100.0	90.00	179.84	12,527.0	-7,151.6	1,013.4	7,217.9	0.00	0.00	0.00
20,200.0	90.00	179.84	12,527.0	-7,251.6	1,013.7	7,317.4	0.00	0.00	0.00
20,301.4	90.00	179.84	12,527.0	-7,353.0	1,014.0	7,418.2	0.00	0.00	0.00
20,400.0	90.00	179.84	12,527.0	-7,451.6	1,014.3	7,516.4	0.00	0.00	0.00
20,500.0	90.00	179.84	12,527.0	-7,551.6	1,014.6	7,615.9	0.00	0.00	0.00
20,600.0	90.00	179.84	12,527.0	-7,651.6	1,014.8	7,715.4	0.00	0.00	0.00
20,700.0	90.00	179.84	12,527.0	-7,751.6	1,015.1	7,814.9	0.00	0.00	0.00
20,800.0	90.00	179.83	12,527.0	-7,851.6	1,015.4	7,914.4	0.00	0.00	0.00
20,900.0	90.00	179.83	12,527.0	-7,951.6	1,015.7	8,013.9	0.00	0.00	0.00
21,000.0	90.00	179.83	12,527.0	-8,051.6	1,016.0	8,113.4	0.00	0.00	0.00
21,100.0	90.00	179.83	12,527.0	-8,151.6	1,016.3	8,212.9	0.00	0.00	0.00
21,200.0	90.00	179.83	12,527.0	-8,251.6	1,016.6	8,312.4	0.00	0.00	0.00
21,300.0	90.00	179.83	12,527.0	-8,351.6	1,016.9	8,411.9	0.00	0.00	0.00
21,400.0	90.00	179.82	12,527.0	-8,451.6	1,017.2	8,511.4	0.00	0.00	0.00
21,500.0	90.00	179.82	12,527.0	-8,551.6	1,017.5	8,610.9	0.00	0.00	0.00
21,600.0	90.00	179.82	12,527.0	-8,651.6	1,017.8	8,710.4	0.00	0.00	0.00
21,700.0	90.00	179.82	12,527.0	-8,751.6	1,018.1	8,809.9	0.00	0.00	0.00
21,800.0	90.00	179.82	12,527.0	-8,851.6	1,018.5	8,909.4	0.00	0.00	0.00
21,900.0	90.00	179.81	12,527.0	-8,951.6	1,018.8	9,008.9	0.00	0.00	0.00
22,000.0	90.00	179.81	12,527.0	-9,051.6	1,019.1	9,108.4	0.00	0.00	0.00
22,100.0	90.00	179.81	12,527.0	-9,151.6	1,019.4	9,207.9	0.00	0.00	0.00
22,200.0	90.00	179.81	12,527.0	-9,251.6	1,019.8	9,307.4	0.00	0.00	0.00
22,300.0	90.00	179.81	12,527.0	-9,351.6	1,020.1	9,406.9	0.00	0.00	0.00
22,400.0	90.00	179.81	12,527.0	-9,451.6	1,020.4	9,506.4	0.00	0.00	0.00
22,500.0	90.00	179.80	12,527.0	-9,551.6	1,020.8	9,605.9	0.00	0.00	0.00
22,600.0	90.00	179.80	12,527.0	-9,651.6	1,021.1	9,705.5	0.00	0.00	0.00
22,700.0	90.00	179.80	12,527.0	-9,751.6	1,021.5	9,805.0	0.00	0.00	0.00
22,800.0	90.00	179.80	12,527.0	-9,851.6	1,021.8	9,904.5	0.00	0.00	0.00
22,850.4	90.00	179.80	12,527.0	-9,902.0	1,022.0	9,954.6	0.00	0.00	0.00

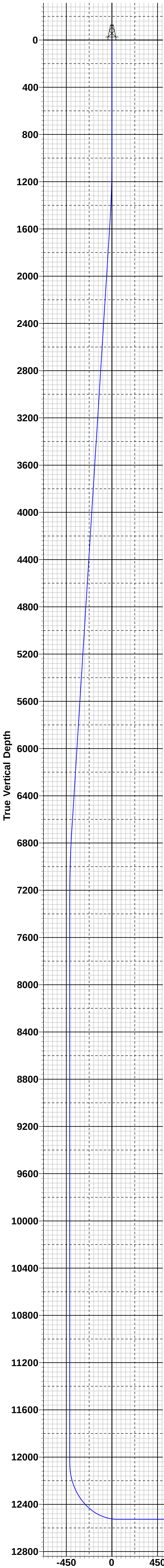
EOG Resources

Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #722H
Company:	Midland	TVD Reference:	kb = 26' @ 3526.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3526.0usft
Site:	Ruthless 11 Fed Com	North Reference:	Grid
Well:	#722H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
KOP(Ruthless 11 Fed C - plan hits target center - Point	0.00	0.00	12,049.5	521.0	990.0	419,771.00	754,095.00	32° 9' 7.782 N	103° 38' 45.103 W
FTP(Ruthless 11 Fed Cc - plan hits target center - Point	0.00	0.00	12,262.2	471.0	990.0	419,721.00	754,095.00	32° 9' 7.287 N	103° 38' 45.106 W
PBHL(Ruthless 11 Fed C - plan hits target center - Point	0.00	0.00	12,527.0	-9,902.0	1,022.0	409,348.00	754,127.00	32° 7' 24.639 N	103° 38' 45.504 W
Fed Perf 2(Ruthless 11 F - plan hits target center - Point	0.00	0.00	12,527.0	-7,353.0	1,014.0	411,897.00	754,119.00	32° 7' 49.863 N	103° 38' 45.408 W
Fed Perf 1(Ruthless 11 F - plan hits target center - Point	0.00	0.00	12,527.0	-2,071.0	998.0	417,179.00	754,103.00	32° 8' 42.132 N	103° 38' 45.202 W



To convert a Magnetic Direction to a Grid Direction, Add 6.12°
To convert a Magnetic Direction to a True Direction, Add 6.48° East
To convert a True Direction to a Grid Direction, Subtract 0.36°

Lea County, NM (NAD 83 NME)

Ruthless 11 Fed Com #722H

Plan #0.1 RT

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

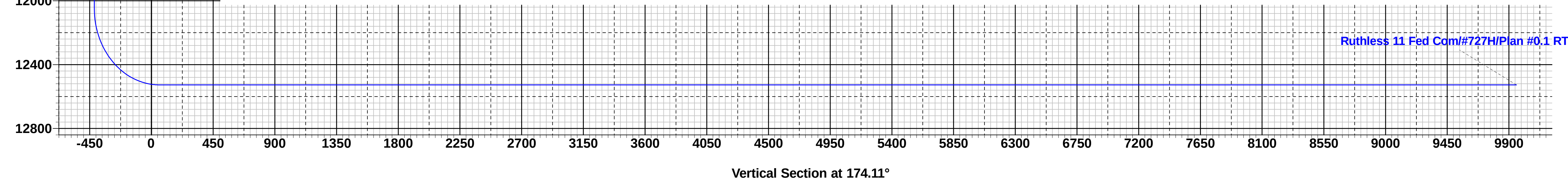
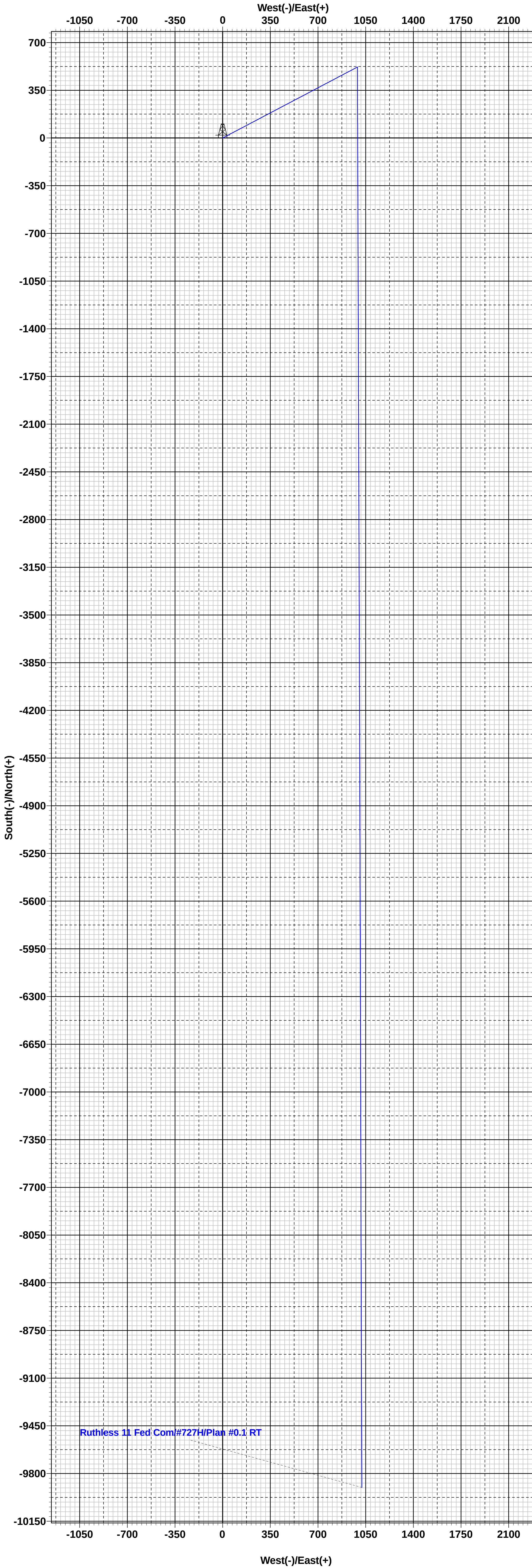
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #722H				
3500.0				
kb = 26' @ 3526.0usft				
Northings	Easting	Latitude	Longitude	
419250.00	753105.00	32° 9' 2.689 N	103° 38' 56.657 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	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1555.5	11.11	62.24	1552.0	25.0	47.5	2.00	62.24	-20.0	
4	6803.8	11.11	62.24	6702.0	496.0	942.5	0.00	0.00	-396.6	
5	7359.3	0.00	0.00	7254.0	521.0	990.0	2.00	180.00	-416.6	
6	12154.8	0.00	0.00	12049.5	521.0	990.0	0.00	0.00	-416.6	KOP(Ruthless 11 Fed Com #722H)
7	12375.3	26.46	180.00	12262.2	471.0	990.0	12.00	180.00	-366.9	FTP(Ruthless 11 Fed Com #722H)
8	12904.8	90.00	179.81	12526.9	43.6	991.0	0.00	-0.21	58.4	
9	15019.3	90.00	179.81	12527.0	-2071.0	998.0	0.00	0.00	2162.5	Fed Perf 1(Ruthless 11 Fed Com #722H)
10	20301.4	90.00	179.84	12527.0	-7353.0	1014.0	0.00	84.64	7418.2	Fed Perf 2(Ruthless 11 Fed Com #722H)
11	22850.4	90.00	179.80	12527.0	-9902.0	1022.0	0.00	-93.90	9954.6	PBHL(Ruthless 11 Fed Com #722H)

CASING DETAILS
No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)					
Name	TVD	+N/-S	+E/-W	Northings	Easting
KOP(Ruthless 11 Fed Com #722H)	12049.5	521.0	990.0	419771.00	754095.00
FTP(Ruthless 11 Fed Com #722H)	12262.2	471.0	990.0	419721.00	754095.00
Fed Perf 1(Ruthless 11 Fed Com #722H)	12527.0	-2071.0	998.0	417179.00	754103.00
Fed Perf 2(Ruthless 11 Fed Com #722H)	12527.0	-7353.0	1014.0	411897.00	754119.00
PBHL(Ruthless 11 Fed Com #722H)	12527.0	-9902.0	1022.0	409348.00	754127.00



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 134193

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 134193
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	8/16/2022