

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

5. Lease Serial No. NMNM015317

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator EOG RESOURCES INCORPORATED

3a. Address 1111 BAGBY SKY LOBBY 2, HOUSTON, TX 77030 3b. Phone No. (include area code) (713) 651-7000

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 11/T25S/R32E/NMP

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

8. Well Name and No. RUTHLESS 11 FED COM/507H

9. API Well No. 3002547720

10. Field and Pool or Exploratory Area
WC025 G08 S253235G; LOWER BONE SPRING/WC-C11. 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	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ 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 recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

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

Change BHL from T-25-S, R-32-E, Sec 14, 100' FSL, 1575' FEL, Lea Co., NM,
to T-25-S, R-32-E, Sec 14, 100' FSL, 1250' FEL, Lea Co., N.M.
Update casing and cement program to current design.

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

12/16/2021

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Title Petroleum Engineer

Date 01/19/2022

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 of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: NWNE / 520 FNL / 1921 FEL / TWSP: 25S / RANGE: 32E / SECTION: 11 / LAT: 32.1508674 / LONG: -103.6432497 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 100 FNL / 1575 FEL / TWSP: 25S / RANGE: 32E / SECTION: 11 / LAT: 32.1520211 / LONG: -103.64213 (TVD: 10670 feet, MD: 10708 feet)

PPP: NWNE / 0 FNL / 1575 FEL / TWSP: 25S / RANGE: 32E / SECTION: 14 / LAT: 32.1377833 / LONG: -103.6421351 (TVD: 10935 feet, MD: 15989 feet)

BHL: SWSE / 100 FSL / 1575 FEL / TWSP: 25S / RANGE: 32E / SECTION: 14 / LAT: 32.1235433 / LONG: -103.6421401 (TVD: 10935 feet, MD: 21170 feet)

CONFIDENTIAL

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 30-025-47720	² Pool Code 97903	³ Pool Name WC-025 G-08 S253235G; Lwr Bone Spring
⁴ Property Code 329701	⁵ Property Name RUTHLESS 11 FED COM	
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁶ Well Number 507H
		⁹ Elevation 3512'

¹⁰Surface Location

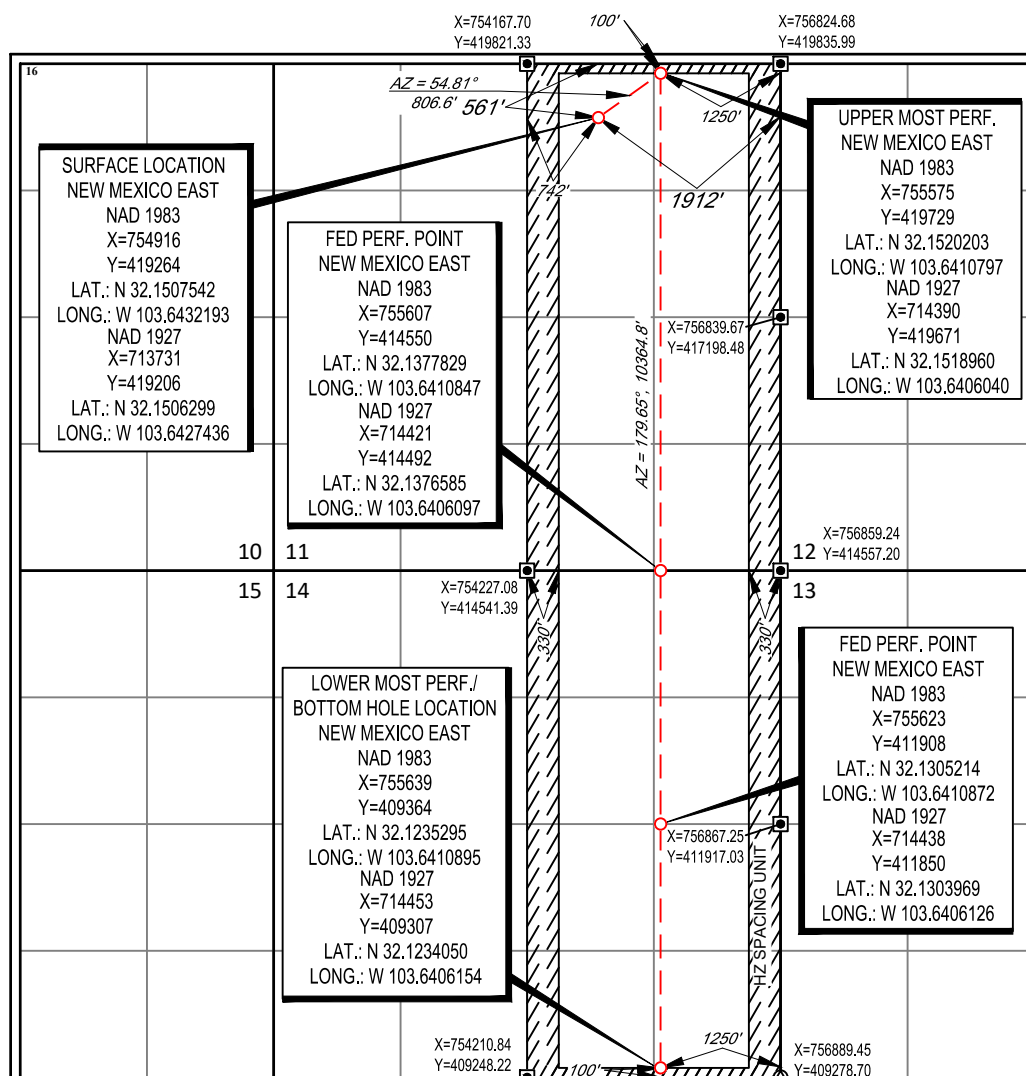
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	11	25-S	32-E	—	561'	NORTH	1912'	EAST	LEA

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
P	14	25-S	32-E	-	100'	SOUTH	1250'	EAST	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.



¹⁷OPERATOR 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 a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Star L Harrell 12/16/2021
Signature Date

Star L Harrell
Printed Name

star_harrell@eogresources.com

E-mail Address

18 SURVEYOR 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 to the best of my belief.

06/23/2020

Date of Survey _____
Signature and Seal of Professional Surveyor _____

Certificate Number



Ruthless 11 Fed Com 507H

Revised Permit Information 12/15/2021:

Well Name: Ruthless 11 Fed Com 507H

Location: SHL: 561' FNL & 1912' FEL, Section 11, T-25-S, R-32-E, Lea Co., N.M.

BHL: 100' FSL & 1250' FEL, Section 14, T-25-S, R-32-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DFmin Collapse	DFmin Burst	DFmin Tension
16"	0' - 950'	13.375"	54.5#	J-55	STC	1.125	1.25	1.6
12.25"	0' - 4,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.6
12.25"	4,000' - 4,640'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.6
7.875"	0' - 21,184'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.6

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

Variance is also requested to waive any centralizer requirements for the 5-1/2" casing in the 7-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 7-7/8" hole interval to maximize cement bond and zonal isolation.

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
950' 13.375"	290	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	100	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 750')
4,640' 9.625"	680	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	300	14.8	1.32	Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 3,710')
21,184'	460	11.0	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4,141')
	1950	14.4	1.2	Tail: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,496')

**Ruthless 11 Fed Com 507H**

Additive	Purpose
Bentonite Gel	Lightweight/Lost circulation prevention
Calcium Chloride	Accelerator
Cello-flake	Lost circulation prevention
Sodium Metasilicate	Accelerator
MagOx	Expansive agent
Pre-Mag-M	Expansive agent
Sodium Chloride	Accelerator
FL-62	Fluid loss control
Halad-344	Fluid loss control
Halad-9	Fluid loss control
HR-601	Retarder
Microbond	Expansive Agent

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

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 950'	Fresh - Gel	8.6-8.8	28-34	N/c
950' – 4,640'	Brine	8.6-8.8	28-34	N/c
4,640' – 21,184'	Oil Base	8.8-9.5	58-68	N/c - 6

Wellhead:

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

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



Ruthless 11 Fed Com 507H

561' FNL
1912' FEL
Section 11
T-25-S, R-32-E

Revised Wellbore

KB: 3536'
GL: 3511'

API: 30-025-47720

Bit Size: 16"
13-3/8", 54.5#, J-55, STC, 0' - 950'

Bit Size: 12-1/4"
9-5/8" 40#, J-55, LTC, 0' - 4,000'
9-5/8" 40#, HCK-55, LTC, 4,000' - 4,640'

TOC: 4,141'

Bit Size: 7-7/8"
5-1/2", 17#, HCP-110, LTC @ 0' - 21,184'

KOP: 10,496'

Lateral: 21,184' MD, 10,935' TVD
Upper Most Perf:
100' FNL & 1250' FEL Sec. 11
Lower Most Perf:
100' FSL & 1250' FEL Sec. 14
BH Location: 100' FSL & 1250' FEL
Sec. 14
T-25-S R-32-E

Bit Size: 7-7/8"



Midland

Lea County, NM (NAD 83 NME)

Ruthless 11 Fed Com

#507H

OH

Plan: Plan #0.2

Standard Planning Report

15 December, 2021



EOG Resources

Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #507H
Company:	Midland	TVD Reference:	KB = 25 @ 3537.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3537.0usft
Site:	Ruthless 11 Fed Com	North Reference:	Grid
Well:	#507H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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:	32.1504685°N
From:	Map	Easting:	752,042.00 usft	Longitude:	103.6525080°W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	#507H					
Well Position	+N/-S	0.0 usft	Northing:	419,264.00 usft	Latitude:	32.1507535°N
	+E/-W	0.0 usft	Easting:	754,916.00 usft	Longitude:	103.6432196°W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,512.0 usft
Grid Convergence:		0.37 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/18/2019	6.72	59.95	47,638.30993430

Design	Plan #0.2				
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	175.82	

Plan Survey Tool Program	Date	12/15/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	21,184.1 Plan #0.2 (OH)	MWD		
			OWSG MWD - Standard		

EOG Resources

Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #507H
Company:	Midland	TVD Reference:	KB = 25 @ 3537.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3537.0usft
Site:	Ruthless 11 Fed Com	North Reference:	Grid
Well:	#507H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,568.8	5.38	51.99	1,568.4	7.8	9.9	2.00	2.00	0.00	51.99	
10,227.6	5.38	51.99	10,189.1	507.2	649.1	0.00	0.00	0.00	0.00	
10,496.4	0.00	0.01	10,457.5	515.0	659.0	2.00	-2.00	0.00	180.00	KOP(Ruthless 11 FC :
10,716.8	26.46	180.00	10,670.2	465.0	659.0	12.00	12.00	81.65	180.00	FTP(Ruthless 11 FC #
11,246.3	90.00	179.64	10,934.9	37.5	660.9	12.00	12.00	-0.07	-0.41	
15,998.0	90.00	179.64	10,935.0	-4,714.0	691.0	0.00	0.00	0.00	0.00	Fed PP(Ruthless 11 F
15,998.8	90.00	179.65	10,935.0	-4,714.8	691.0	2.00	0.08	2.00	87.65	
18,640.0	90.00	179.65	10,935.0	-7,356.0	707.0	0.00	0.00	0.00	0.00	Fed PP2(Ruthless 11
18,640.7	90.00	179.64	10,935.0	-7,356.7	707.0	2.00	0.00	-2.00	-90.00	
21,184.1	90.00	179.64	10,935.0	-9,900.0	723.0	0.00	0.00	0.00	0.00	PBHL(Ruthless 11 FC

EOG Resources

Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #507H
Company:	Midland	TVD Reference:	KB = 25 @ 3537.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3537.0usft
Site:	Ruthless 11 Fed Com	North Reference:	Grid
Well:	#507H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	2.00	51.99	1,400.0	1.1	1.4	-1.0	2.00	2.00	0.00
1,500.0	4.00	51.99	1,499.8	4.3	5.5	-3.9	2.00	2.00	0.00
1,568.8	5.38	51.99	1,568.4	7.8	9.9	-7.0	2.00	2.00	0.00
1,600.0	5.38	51.99	1,599.5	9.6	12.2	-8.6	0.00	0.00	0.00
1,700.0	5.38	51.99	1,699.0	15.3	19.6	-13.9	0.00	0.00	0.00
1,800.0	5.38	51.99	1,798.6	21.1	27.0	-19.1	0.00	0.00	0.00
1,900.0	5.38	51.99	1,898.1	26.9	34.4	-24.3	0.00	0.00	0.00
2,000.0	5.38	51.99	1,997.7	32.6	41.8	-29.5	0.00	0.00	0.00
2,100.0	5.38	51.99	2,097.3	38.4	49.1	-34.7	0.00	0.00	0.00
2,200.0	5.38	51.99	2,196.8	44.2	56.5	-39.9	0.00	0.00	0.00
2,300.0	5.38	51.99	2,296.4	49.9	63.9	-45.2	0.00	0.00	0.00
2,400.0	5.38	51.99	2,396.0	55.7	71.3	-50.4	0.00	0.00	0.00
2,500.0	5.38	51.99	2,495.5	61.5	78.7	-55.6	0.00	0.00	0.00
2,600.0	5.38	51.99	2,595.1	67.2	86.0	-60.8	0.00	0.00	0.00
2,700.0	5.38	51.99	2,694.6	73.0	93.4	-66.0	0.00	0.00	0.00
2,800.0	5.38	51.99	2,794.2	78.8	100.8	-71.2	0.00	0.00	0.00
2,900.0	5.38	51.99	2,893.8	84.5	108.2	-76.4	0.00	0.00	0.00
3,000.0	5.38	51.99	2,993.3	90.3	115.6	-81.7	0.00	0.00	0.00
3,100.0	5.38	51.99	3,092.9	96.1	123.0	-86.9	0.00	0.00	0.00
3,200.0	5.38	51.99	3,192.4	101.9	130.3	-92.1	0.00	0.00	0.00
3,300.0	5.38	51.99	3,292.0	107.6	137.7	-97.3	0.00	0.00	0.00
3,400.0	5.38	51.99	3,391.6	113.4	145.1	-102.5	0.00	0.00	0.00
3,500.0	5.38	51.99	3,491.1	119.2	152.5	-107.7	0.00	0.00	0.00
3,600.0	5.38	51.99	3,590.7	124.9	159.9	-113.0	0.00	0.00	0.00
3,700.0	5.38	51.99	3,690.2	130.7	167.2	-118.2	0.00	0.00	0.00
3,800.0	5.38	51.99	3,789.8	136.5	174.6	-123.4	0.00	0.00	0.00
3,900.0	5.38	51.99	3,889.4	142.2	182.0	-128.6	0.00	0.00	0.00
4,000.0	5.38	51.99	3,988.9	148.0	189.4	-133.8	0.00	0.00	0.00
4,100.0	5.38	51.99	4,088.5	153.8	196.8	-139.0	0.00	0.00	0.00
4,200.0	5.38	51.99	4,188.0	159.5	204.1	-144.2	0.00	0.00	0.00
4,300.0	5.38	51.99	4,287.6	165.3	211.5	-149.5	0.00	0.00	0.00
4,400.0	5.38	51.99	4,387.2	171.1	218.9	-154.7	0.00	0.00	0.00
4,500.0	5.38	51.99	4,486.7	176.8	226.3	-159.9	0.00	0.00	0.00
4,600.0	5.38	51.99	4,586.3	182.6	233.7	-165.1	0.00	0.00	0.00
4,700.0	5.38	51.99	4,685.8	188.4	241.1	-170.3	0.00	0.00	0.00
4,800.0	5.38	51.99	4,785.4	194.2	248.4	-175.5	0.00	0.00	0.00
4,900.0	5.38	51.99	4,885.0	199.9	255.8	-180.8	0.00	0.00	0.00
5,000.0	5.38	51.99	4,984.5	205.7	263.2	-186.0	0.00	0.00	0.00
5,100.0	5.38	51.99	5,084.1	211.5	270.6	-191.2	0.00	0.00	0.00
5,200.0	5.38	51.99	5,183.6	217.2	278.0	-196.4	0.00	0.00	0.00

EOG Resources

Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #507H
Company:	Midland	TVD Reference:	KB = 25 @ 3537.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3537.0usft
Site:	Ruthless 11 Fed Com	North Reference:	Grid
Well:	#507H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	5.38	51.99	5,283.2	223.0	285.3	-201.6	0.00	0.00	0.00	
5,400.0	5.38	51.99	5,382.8	228.8	292.7	-206.8	0.00	0.00	0.00	
5,500.0	5.38	51.99	5,482.3	234.5	300.1	-212.0	0.00	0.00	0.00	
5,600.0	5.38	51.99	5,581.9	240.3	307.5	-217.3	0.00	0.00	0.00	
5,700.0	5.38	51.99	5,681.4	246.1	314.9	-222.5	0.00	0.00	0.00	
5,800.0	5.38	51.99	5,781.0	251.8	322.3	-227.7	0.00	0.00	0.00	
5,900.0	5.38	51.99	5,880.6	257.6	329.6	-232.9	0.00	0.00	0.00	
6,000.0	5.38	51.99	5,980.1	263.4	337.0	-238.1	0.00	0.00	0.00	
6,100.0	5.38	51.99	6,079.7	269.1	344.4	-243.3	0.00	0.00	0.00	
6,200.0	5.38	51.99	6,179.2	274.9	351.8	-248.6	0.00	0.00	0.00	
6,300.0	5.38	51.99	6,278.8	280.7	359.2	-253.8	0.00	0.00	0.00	
6,400.0	5.38	51.99	6,378.4	286.4	366.5	-259.0	0.00	0.00	0.00	
6,500.0	5.38	51.99	6,477.9	292.2	373.9	-264.2	0.00	0.00	0.00	
6,600.0	5.38	51.99	6,577.5	298.0	381.3	-269.4	0.00	0.00	0.00	
6,700.0	5.38	51.99	6,677.0	303.8	388.7	-274.6	0.00	0.00	0.00	
6,800.0	5.38	51.99	6,776.6	309.5	396.1	-279.9	0.00	0.00	0.00	
6,900.0	5.38	51.99	6,876.2	315.3	403.4	-285.1	0.00	0.00	0.00	
7,000.0	5.38	51.99	6,975.7	321.1	410.8	-290.3	0.00	0.00	0.00	
7,100.0	5.38	51.99	7,075.3	326.8	418.2	-295.5	0.00	0.00	0.00	
7,200.0	5.38	51.99	7,174.8	332.6	425.6	-300.7	0.00	0.00	0.00	
7,300.0	5.38	51.99	7,274.4	338.4	433.0	-305.9	0.00	0.00	0.00	
7,400.0	5.38	51.99	7,374.0	344.1	440.4	-311.1	0.00	0.00	0.00	
7,500.0	5.38	51.99	7,473.5	349.9	447.7	-316.4	0.00	0.00	0.00	
7,600.0	5.38	51.99	7,573.1	355.7	455.1	-321.6	0.00	0.00	0.00	
7,700.0	5.38	51.99	7,672.6	361.4	462.5	-326.8	0.00	0.00	0.00	
7,800.0	5.38	51.99	7,772.2	367.2	469.9	-332.0	0.00	0.00	0.00	
7,900.0	5.38	51.99	7,871.8	373.0	477.3	-337.2	0.00	0.00	0.00	
8,000.0	5.38	51.99	7,971.3	378.7	484.6	-342.4	0.00	0.00	0.00	
8,100.0	5.38	51.99	8,070.9	384.5	492.0	-347.7	0.00	0.00	0.00	
8,200.0	5.38	51.99	8,170.4	390.3	499.4	-352.9	0.00	0.00	0.00	
8,300.0	5.38	51.99	8,270.0	396.0	506.8	-358.1	0.00	0.00	0.00	
8,400.0	5.38	51.99	8,369.6	401.8	514.2	-363.3	0.00	0.00	0.00	
8,500.0	5.38	51.99	8,469.1	407.6	521.6	-368.5	0.00	0.00	0.00	
8,600.0	5.38	51.99	8,568.7	413.4	528.9	-373.7	0.00	0.00	0.00	
8,700.0	5.38	51.99	8,668.2	419.1	536.3	-378.9	0.00	0.00	0.00	
8,800.0	5.38	51.99	8,767.8	424.9	543.7	-384.2	0.00	0.00	0.00	
8,900.0	5.38	51.99	8,867.4	430.7	551.1	-389.4	0.00	0.00	0.00	
9,000.0	5.38	51.99	8,966.9	436.4	558.5	-394.6	0.00	0.00	0.00	
9,100.0	5.38	51.99	9,066.5	442.2	565.8	-399.8	0.00	0.00	0.00	
9,200.0	5.38	51.99	9,166.0	448.0	573.2	-405.0	0.00	0.00	0.00	
9,300.0	5.38	51.99	9,265.6	453.7	580.6	-410.2	0.00	0.00	0.00	
9,400.0	5.38	51.99	9,365.2	459.5	588.0	-415.5	0.00	0.00	0.00	
9,500.0	5.38	51.99	9,464.7	465.3	595.4	-420.7	0.00	0.00	0.00	
9,600.0	5.38	51.99	9,564.3	471.0	602.7	-425.9	0.00	0.00	0.00	
9,700.0	5.38	51.99	9,663.8	476.8	610.1	-431.1	0.00	0.00	0.00	
9,800.0	5.38	51.99	9,763.4	482.6	617.5	-436.3	0.00	0.00	0.00	
9,900.0	5.38	51.99	9,863.0	488.3	624.9	-441.5	0.00	0.00	0.00	
10,000.0	5.38	51.99	9,962.5	494.1	632.3	-446.7	0.00	0.00	0.00	
10,100.0	5.38	51.99	10,062.1	499.9	639.7	-452.0	0.00	0.00	0.00	
10,200.0	5.38	51.99	10,161.6	505.7	647.0	-457.2	0.00	0.00	0.00	
10,227.6	5.38	51.99	10,189.1	507.2	649.1	-458.6	0.00	0.00	0.00	
10,300.0	3.93	51.99	10,261.3	510.9	653.7	-461.9	2.00	-2.00	0.00	
10,400.0	1.93	51.99	10,361.2	514.0	657.7	-464.7	2.00	-2.00	0.00	
10,496.4	0.00	0.01	10,457.5	515.0	659.0	-465.6	2.00	-2.00	0.00	

EOG Resources

Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #507H
Company:	Midland	TVD Reference:	KB = 25 @ 3537.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3537.0usft
Site:	Ruthless 11 Fed Com	North Reference:	Grid
Well:	#507H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	0.44	180.00	10,461.1	515.0	659.0	-465.6	12.00	12.00	0.00	
10,525.0	3.44	180.00	10,486.1	514.1	659.0	-464.8	12.00	12.00	0.00	
10,550.0	6.44	180.00	10,511.0	512.0	659.0	-462.6	12.00	12.00	0.00	
10,575.0	9.44	180.00	10,535.8	508.5	659.0	-459.2	12.00	12.00	0.00	
10,600.0	12.44	180.00	10,560.3	503.8	659.0	-454.5	12.00	12.00	0.00	
10,625.0	15.44	180.00	10,584.6	497.8	659.0	-448.5	12.00	12.00	0.00	
10,650.0	18.44	180.00	10,608.5	490.5	659.0	-441.2	12.00	12.00	0.00	
10,675.0	21.44	180.00	10,632.0	482.0	659.0	-432.7	12.00	12.00	0.00	
10,700.0	24.44	180.00	10,655.0	472.2	659.0	-423.0	12.00	12.00	0.00	
10,716.8	26.46	180.00	10,670.2	465.0	659.0	-415.8	12.00	12.00	0.00	
10,725.0	27.44	179.98	10,677.5	461.3	659.0	-412.1	12.00	12.00	-0.18	
10,750.0	30.44	179.94	10,699.4	449.2	659.0	-400.0	12.00	12.00	-0.16	
10,775.0	33.44	179.91	10,720.6	436.0	659.0	-386.8	12.00	12.00	-0.14	
10,800.0	36.44	179.88	10,741.1	421.7	659.1	-372.5	12.00	12.00	-0.12	
10,825.0	39.44	179.86	10,760.8	406.3	659.1	-357.2	12.00	12.00	-0.10	
10,850.0	42.44	179.83	10,779.7	389.9	659.1	-340.9	12.00	12.00	-0.09	
10,875.0	45.44	179.81	10,797.7	372.6	659.2	-323.6	12.00	12.00	-0.08	
10,900.0	48.44	179.80	10,814.7	354.3	659.2	-305.3	12.00	12.00	-0.07	
10,925.0	51.44	179.78	10,830.8	335.2	659.3	-286.3	12.00	12.00	-0.06	
10,950.0	54.44	179.77	10,845.9	315.2	659.4	-266.4	12.00	12.00	-0.06	
10,975.0	57.44	179.75	10,859.9	294.5	659.5	-245.7	12.00	12.00	-0.06	
11,000.0	60.44	179.74	10,872.8	273.1	659.6	-224.3	12.00	12.00	-0.05	
11,025.0	63.44	179.73	10,884.5	251.0	659.7	-202.3	12.00	12.00	-0.05	
11,050.0	66.44	179.72	10,895.1	228.4	659.8	-179.7	12.00	12.00	-0.05	
11,075.0	69.44	179.70	10,904.5	205.2	659.9	-156.6	12.00	12.00	-0.04	
11,100.0	72.44	179.69	10,912.7	181.6	660.0	-133.1	12.00	12.00	-0.04	
11,125.0	75.44	179.68	10,919.6	157.6	660.2	-109.1	12.00	12.00	-0.04	
11,150.0	78.44	179.67	10,925.3	133.2	660.3	-84.8	12.00	12.00	-0.04	
11,175.0	81.44	179.66	10,929.6	108.6	660.4	-60.2	12.00	12.00	-0.04	
11,200.0	84.44	179.65	10,932.7	83.8	660.6	-35.5	12.00	12.00	-0.04	
11,225.0	87.44	179.64	10,934.5	58.9	660.7	-10.6	12.00	12.00	-0.04	
11,246.3	90.00	179.64	10,934.9	37.5	660.9	10.7	12.00	12.00	-0.04	
11,300.0	90.00	179.64	10,934.9	-16.1	661.2	64.2	0.00	0.00	0.00	
11,400.0	90.00	179.64	10,934.9	-116.1	661.8	164.0	0.00	0.00	0.00	
11,500.0	90.00	179.64	10,934.9	-216.1	662.5	263.8	0.00	0.00	0.00	
11,600.0	90.00	179.64	10,934.9	-316.1	663.1	363.6	0.00	0.00	0.00	
11,700.0	90.00	179.64	10,934.9	-416.1	663.8	463.3	0.00	0.00	0.00	
11,800.0	90.00	179.64	10,935.0	-516.1	664.4	563.1	0.00	0.00	0.00	
11,900.0	90.00	179.64	10,935.0	-616.1	665.0	662.9	0.00	0.00	0.00	
12,000.0	90.00	179.64	10,935.0	-716.1	665.7	762.7	0.00	0.00	0.00	
12,100.0	90.00	179.64	10,935.0	-816.1	666.3	862.5	0.00	0.00	0.00	
12,200.0	90.00	179.64	10,935.0	-916.1	666.9	962.2	0.00	0.00	0.00	
12,300.0	90.00	179.64	10,935.0	-1,016.1	667.6	1,062.0	0.00	0.00	0.00	
12,400.0	90.00	179.64	10,935.0	-1,116.1	668.2	1,161.8	0.00	0.00	0.00	
12,500.0	90.00	179.64	10,935.0	-1,216.1	668.8	1,261.6	0.00	0.00	0.00	
12,600.0	90.00	179.64	10,935.0	-1,316.1	669.5	1,361.3	0.00	0.00	0.00	
12,700.0	90.00	179.64	10,935.0	-1,416.1	670.1	1,461.1	0.00	0.00	0.00	
12,800.0	90.00	179.64	10,935.0	-1,516.1	670.7	1,560.9	0.00	0.00	0.00	
12,900.0	90.00	179.64	10,935.0	-1,616.1	671.4	1,660.7	0.00	0.00	0.00	
13,000.0	90.00	179.64	10,935.0	-1,716.1	672.0	1,760.5	0.00	0.00	0.00	
13,100.0	90.00	179.64	10,935.0	-1,816.1	672.6	1,860.2	0.00	0.00	0.00	
13,200.0	90.00	179.64	10,935.0	-1,916.1	673.3	1,960.0	0.00	0.00	0.00	
13,300.0	90.00	179.64	10,935.0	-2,016.1	673.9	2,059.8	0.00	0.00	0.00	
13,400.0	90.00	179.64	10,935.0	-2,116.1	674.5	2,159.6	0.00	0.00	0.00	



EOG Resources

Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #507H
Company:	Midland	TVD Reference:	KB = 25 @ 3537.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3537.0usft
Site:	Ruthless 11 Fed Com	North Reference:	Grid
Well:	#507H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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)	
13,500.0	90.00	179.64	10,935.0	-2,216.1	675.2	2,259.4	0.00	0.00	0.00	
13,600.0	90.00	179.64	10,935.0	-2,316.1	675.8	2,359.1	0.00	0.00	0.00	
13,700.0	90.00	179.64	10,935.0	-2,416.1	676.4	2,458.9	0.00	0.00	0.00	
13,800.0	90.00	179.64	10,935.0	-2,516.1	677.1	2,558.7	0.00	0.00	0.00	
13,900.0	90.00	179.64	10,935.0	-2,616.1	677.7	2,658.5	0.00	0.00	0.00	
14,000.0	90.00	179.64	10,935.0	-2,716.1	678.3	2,758.2	0.00	0.00	0.00	
14,100.0	90.00	179.64	10,935.0	-2,816.1	679.0	2,858.0	0.00	0.00	0.00	
14,200.0	90.00	179.64	10,935.0	-2,916.1	679.6	2,957.8	0.00	0.00	0.00	
14,300.0	90.00	179.64	10,935.0	-3,016.0	680.2	3,057.6	0.00	0.00	0.00	
14,400.0	90.00	179.64	10,935.0	-3,116.0	680.9	3,157.4	0.00	0.00	0.00	
14,500.0	90.00	179.64	10,935.0	-3,216.0	681.5	3,257.1	0.00	0.00	0.00	
14,600.0	90.00	179.64	10,935.0	-3,316.0	682.1	3,356.9	0.00	0.00	0.00	
14,700.0	90.00	179.64	10,935.0	-3,416.0	682.8	3,456.7	0.00	0.00	0.00	
14,800.0	90.00	179.64	10,935.0	-3,516.0	683.4	3,556.5	0.00	0.00	0.00	
14,900.0	90.00	179.64	10,935.0	-3,616.0	684.0	3,656.3	0.00	0.00	0.00	
15,000.0	90.00	179.64	10,935.0	-3,716.0	684.7	3,756.0	0.00	0.00	0.00	
15,100.0	90.00	179.64	10,935.0	-3,816.0	685.3	3,855.8	0.00	0.00	0.00	
15,200.0	90.00	179.64	10,935.0	-3,916.0	685.9	3,955.6	0.00	0.00	0.00	
15,300.0	90.00	179.64	10,935.0	-4,016.0	686.6	4,055.4	0.00	0.00	0.00	
15,400.0	90.00	179.64	10,935.0	-4,116.0	687.2	4,155.1	0.00	0.00	0.00	
15,500.0	90.00	179.64	10,935.0	-4,216.0	687.8	4,254.9	0.00	0.00	0.00	
15,600.0	90.00	179.64	10,935.0	-4,316.0	688.5	4,354.7	0.00	0.00	0.00	
15,700.0	90.00	179.64	10,935.0	-4,416.0	689.1	4,454.5	0.00	0.00	0.00	
15,800.0	90.00	179.64	10,935.0	-4,516.0	689.7	4,554.3	0.00	0.00	0.00	
15,900.0	90.00	179.64	10,935.0	-4,616.0	690.4	4,654.0	0.00	0.00	0.00	
15,998.0	90.00	179.64	10,935.0	-4,714.0	691.0	4,751.8	0.00	0.00	0.00	
15,998.8	90.00	179.65	10,935.0	-4,714.8	691.0	4,752.6	2.00	0.08	2.00	
16,000.0	90.00	179.65	10,935.0	-4,716.0	691.0	4,753.8	0.00	0.00	0.00	
16,100.0	90.00	179.65	10,935.0	-4,816.0	691.6	4,853.6	0.00	0.00	0.00	
16,200.0	90.00	179.65	10,935.0	-4,916.0	692.2	4,953.4	0.00	0.00	0.00	
16,300.0	90.00	179.65	10,935.0	-5,016.0	692.8	5,053.1	0.00	0.00	0.00	
16,400.0	90.00	179.65	10,935.0	-5,116.0	693.4	5,152.9	0.00	0.00	0.00	
16,500.0	90.00	179.65	10,935.0	-5,216.0	694.0	5,252.7	0.00	0.00	0.00	
16,600.0	90.00	179.65	10,935.0	-5,316.0	694.6	5,352.5	0.00	0.00	0.00	
16,700.0	90.00	179.65	10,935.0	-5,416.0	695.3	5,452.3	0.00	0.00	0.00	
16,800.0	90.00	179.65	10,935.0	-5,516.0	695.9	5,552.0	0.00	0.00	0.00	
16,900.0	90.00	179.65	10,935.0	-5,616.0	696.5	5,651.8	0.00	0.00	0.00	
17,000.0	90.00	179.65	10,935.0	-5,716.0	697.1	5,751.6	0.00	0.00	0.00	
17,100.0	90.00	179.65	10,935.0	-5,816.0	697.7	5,851.4	0.00	0.00	0.00	
17,200.0	90.00	179.65	10,935.0	-5,916.0	698.3	5,951.1	0.00	0.00	0.00	
17,300.0	90.00	179.65	10,935.0	-6,016.0	698.9	6,050.9	0.00	0.00	0.00	
17,400.0	90.00	179.65	10,935.0	-6,116.0	699.5	6,150.7	0.00	0.00	0.00	
17,500.0	90.00	179.65	10,935.0	-6,216.0	700.1	6,250.5	0.00	0.00	0.00	
17,600.0	90.00	179.65	10,935.0	-6,316.0	700.7	6,350.2	0.00	0.00	0.00	
17,700.0	90.00	179.65	10,935.0	-6,416.0	701.3	6,450.0	0.00	0.00	0.00	
17,800.0	90.00	179.65	10,935.0	-6,516.0	701.9	6,549.8	0.00	0.00	0.00	
17,900.0	90.00	179.65	10,935.0	-6,616.0	702.5	6,649.6	0.00	0.00	0.00	
18,000.0	90.00	179.65	10,935.0	-6,716.0	703.1	6,749.4	0.00	0.00	0.00	
18,100.0	90.00	179.65	10,935.0	-6,816.0	703.7	6,849.1	0.00	0.00	0.00	
18,200.0	90.00	179.65	10,935.0	-6,916.0	704.3	6,948.9	0.00	0.00	0.00	
18,300.0	90.00	179.65	10,935.0	-7,016.0	704.9	7,048.7	0.00	0.00	0.00	
18,400.0	90.00	179.65	10,935.0	-7,116.0	705.5	7,148.5	0.00	0.00	0.00	
18,500.0	90.00	179.65	10,935.0	-7,216.0	706.2	7,248.2	0.00	0.00	0.00	
18,600.0	90.00	179.65	10,935.0	-7,316.0	706.8	7,348.0	0.00	0.00	0.00	

EOG Resources

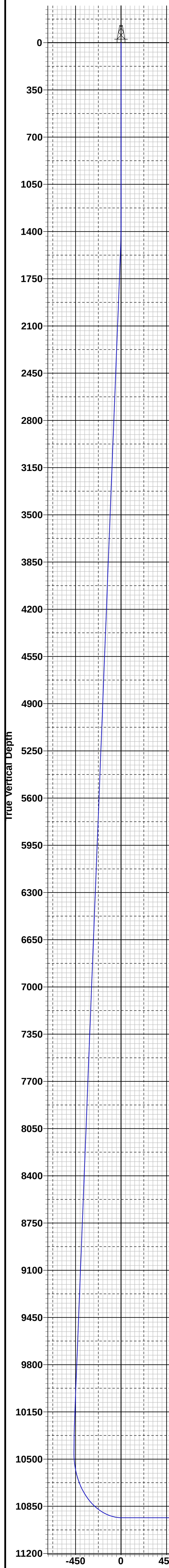
Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #507H
Company:	Midland	TVD Reference:	KB = 25 @ 3537.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3537.0usft
Site:	Ruthless 11 Fed Com	North Reference:	Grid
Well:	#507H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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)	
18,640.0	90.00	179.65	10,935.0	-7,356.0	707.0	7,388.0	0.00	0.00	0.00	
18,640.7	90.00	179.64	10,935.0	-7,356.7	707.0	7,388.6	2.00	0.00	-2.00	
18,700.0	90.00	179.64	10,935.0	-7,416.0	707.4	7,447.8	0.00	0.00	0.00	
18,800.0	90.00	179.64	10,935.0	-7,516.0	708.0	7,547.6	0.00	0.00	0.00	
18,900.0	90.00	179.64	10,935.0	-7,616.0	708.6	7,647.3	0.00	0.00	0.00	
19,000.0	90.00	179.64	10,935.0	-7,716.0	709.3	7,747.1	0.00	0.00	0.00	
19,100.0	90.00	179.64	10,935.0	-7,816.0	709.9	7,846.9	0.00	0.00	0.00	
19,200.0	90.00	179.64	10,935.0	-7,916.0	710.5	7,946.7	0.00	0.00	0.00	
19,300.0	90.00	179.64	10,935.0	-8,016.0	711.2	8,046.5	0.00	0.00	0.00	
19,400.0	90.00	179.64	10,935.0	-8,116.0	711.8	8,146.2	0.00	0.00	0.00	
19,500.0	90.00	179.64	10,935.0	-8,215.9	712.4	8,246.0	0.00	0.00	0.00	
19,600.0	90.00	179.64	10,935.0	-8,315.9	713.0	8,345.8	0.00	0.00	0.00	
19,700.0	90.00	179.64	10,935.0	-8,415.9	713.7	8,445.6	0.00	0.00	0.00	
19,800.0	90.00	179.64	10,935.0	-8,515.9	714.3	8,545.4	0.00	0.00	0.00	
19,900.0	90.00	179.64	10,935.0	-8,615.9	714.9	8,645.1	0.00	0.00	0.00	
20,000.0	90.00	179.64	10,935.0	-8,715.9	715.6	8,744.9	0.00	0.00	0.00	
20,100.0	90.00	179.64	10,935.0	-8,815.9	716.2	8,844.7	0.00	0.00	0.00	
20,200.0	90.00	179.64	10,935.0	-8,915.9	716.8	8,944.5	0.00	0.00	0.00	
20,300.0	90.00	179.64	10,935.0	-9,015.9	717.4	9,044.2	0.00	0.00	0.00	
20,400.0	90.00	179.64	10,935.0	-9,115.9	718.1	9,144.0	0.00	0.00	0.00	
20,500.0	90.00	179.64	10,935.0	-9,215.9	718.7	9,243.8	0.00	0.00	0.00	
20,600.0	90.00	179.64	10,935.0	-9,315.9	719.3	9,343.6	0.00	0.00	0.00	
20,700.0	90.00	179.64	10,935.0	-9,415.9	720.0	9,443.4	0.00	0.00	0.00	
20,800.0	90.00	179.64	10,935.0	-9,515.9	720.6	9,543.1	0.00	0.00	0.00	
20,900.0	90.00	179.64	10,935.0	-9,615.9	721.2	9,642.9	0.00	0.00	0.00	
21,000.0	90.00	179.64	10,935.0	-9,715.9	721.8	9,742.7	0.00	0.00	0.00	
21,100.0	90.00	179.64	10,935.0	-9,815.9	722.5	9,842.5	0.00	0.00	0.00	
21,184.1	90.00	179.64	10,935.0	-9,900.0	723.0	9,926.4	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
KOP(Ruthless 11 FC #5)	0.00	0.01	10,457.5	515.0	659.0	419,779.00	755,575.00	32.1521575°N	103.6410797°W	
- plan hits target center										
- Point										
FTP(Ruthless 11 FC #5C)	0.00	0.00	10,670.2	465.0	659.0	419,729.00	755,575.00	32.1520201°N	103.6410807°W	
- plan hits target center										
- Point										
Fed PP2(Ruthless 11 FC	0.00	0.01	10,935.0	-7,356.0	707.0	411,908.00	755,623.00	32.1305213°N	103.6410881°W	
- plan hits target center										
- Point										
Fed PP(Ruthless 11 FC	0.00	0.01	10,935.0	-4,714.0	691.0	414,550.00	755,607.00	32.1377838°N	103.6410849°W	
- plan hits target center										
- Point										
PBHL(Ruthless 11 FC #)	0.00	0.00	10,935.0	-9,900.0	723.0	409,364.00	755,639.00	32.1235282°N	103.6410892°W	
- plan hits target center										
- Point										



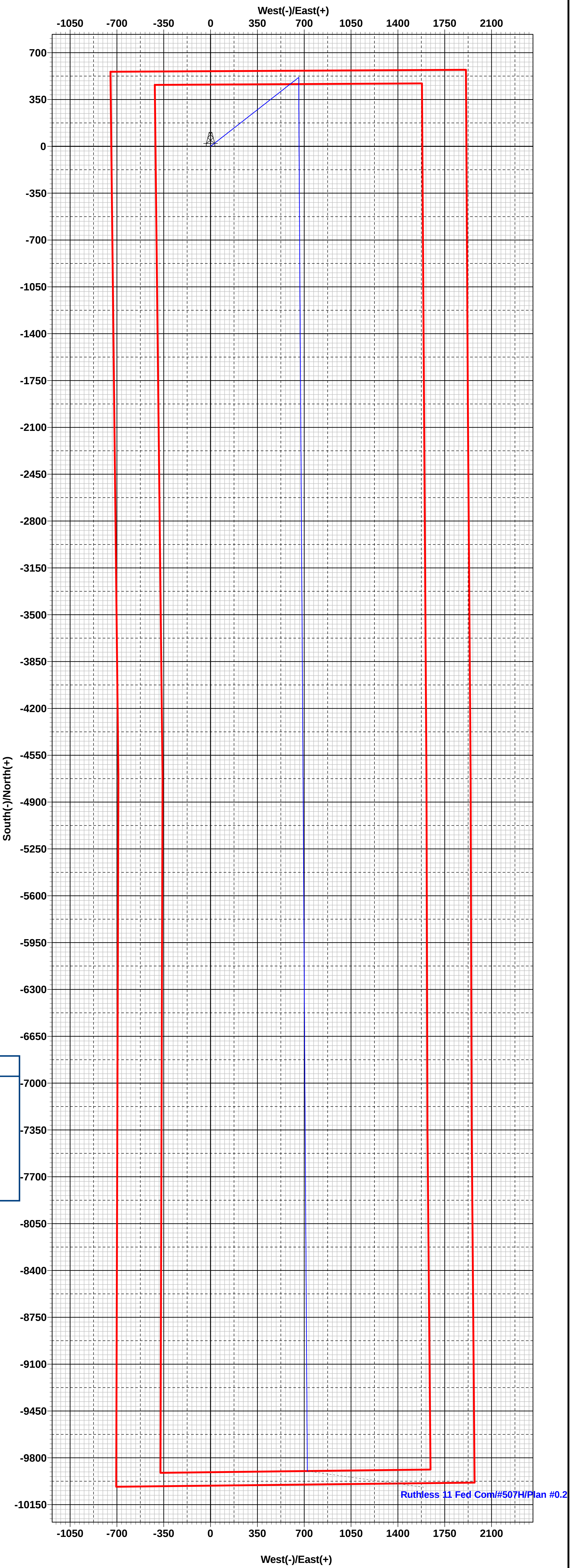
To convert a Magnetic Direction to a Grid Direction, Add 6.35°
To convert a Magnetic Direction to a True Direction, Add 6.72° East
To convert a True Direction to a Grid Direction, Subtract 0.37°

WELL DETAILS: #507H			
KB = 25 @ 3537.0usft			
3512.0			
Northing	Easting	Latitude	Longitude
419264.00	754916.00	32.1507535°N	103.6432196°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	1300.0	0.00	0.00	1300.0	0.0	0.0	0.00	0.00	0.0	
3	1568.8	5.38	51.99	1568.4	7.8	9.9	2.00	51.99	-7.0	
4	10227.6	5.38	51.99	10189.1	507.2	649.1	0.00	0.00	-458.6	
5	10496.4	0.00	0.00	10457.5	515.0	659.0	2.00	180.00	-465.6	KOP(Ruthless 11 FC #507H)
6	10716.8	26.46	180.00	10670.2	465.0	659.0	12.00	180.00	-415.8	FTP(Ruthless 11 FC #507H)
7	11246.3	90.00	179.64	10934.9	37.5	660.9	12.00	-0.41	10.7	
8	15998.0	90.00	179.64	10935.0	-4714.0	691.0	0.00	0.00	4751.8	Fed PP(Ruthless 11 FC #507H)
9	15998.8	90.00	179.65	10935.0	-4714.8	691.0	2.00	87.65	4752.6	
10	18640.0	90.00	179.65	10935.0	-7356.0	707.0	0.00	0.00	7388.0	Fed PP2(Ruthless 11 FC #507H)
11	18640.7	90.00	179.64	10935.0	-7356.7	707.0	2.00	-90.00	7388.6	
12	21184.1	90.00	179.64	10935.0	-9900.0	723.0	0.00	0.00	9926.4	PBHL(Ruthless 11 FC #507H)

CASING DETAILS
No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)					
Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Ruthless 11 FC #507H)	10457.5	515.0	659.0	419779.00	755575.00
FTP(Ruthless 11 FC #507H)	10670.2	465.0	659.0	419729.00	755575.00
Fed PP(Ruthless 11 FC #507H)	10935.0	-4714.0	691.0	414550.00	755607.00
Fed PP2(Ruthless 11 FC #507H)	10935.0	-7356.0	707.0	411908.00	755623.00
PBHL(Ruthless 11 FC #507H)	10935.0	-9900.0	723.0	409364.00	755639.00



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 73481

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 73481
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	1/21/2022