District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & *Natural* Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

[1] Operator name and Address	[2] OGRID Number / [3] Reason for Filing Code/ Effective Date
EOG RESOURCES INC PO BOX 2267 MIDLAND, TEXAS 79702	7377 NW 04/20/2022

[4] API Number	[5] Pool Name	[6] Pool Code
30 - 025-47719	WC025 G08 S253235G; LOWER BONE SPRING	97903
[7] Property Code	**[8] Property Name**	**[9] Well Number**
329701	RUTHLESS 11 FEDERAL COM	505H

II. [10] Surface 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	25S	32E		564'	NORTH	1978'	EAST	LEA

[11] Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	14	25S	32E		109'	SOUTH	2157'	EAST	LEA

[12] Lse Code	[13] Producing Method Code	[14] Gas Connection Date	[15] C-129 Permit Number	[16] C-129 Effective Date	[17] C-129 Expiration Date
	FLOWING				

III. Oil and Gas Transporters

[18] Transporter OGRID	[19] Transporter Name and Address	[20] O/G/W
372812	EOGRM	OIL
151618	ENTERPRISE FIELD SERVICES	GAS
298751	REGENCY FIELD SERVICES	GAS
36785	DCP MIDSTREAM	GAS

IV. Well Completion Data

[21] Spud Date	[22] Ready Date	[23] TD	[24] PBTD	[25] Perforations	[26] DHC, MC
12/17/2021	04/20/2022	20,786'	20,754'	10,650 - 20,754'	

[27] Hole Size	[28] Casing & Tubing Size	[29] Depth Set	[30] Sacks Cement
17 1/2"	13 3/8"	1073'	730 SXS CL C/CIRC
8 3/4"	7 5/8"	9958'	3163 SXS CL C&H, TOC 78' ECHO
6 3/4"	5 1/2"	20,763'	960 SXS CL H/TOC @ 9970' CBL-PRESSURE TEST ATTACHED

V. Well Test Data

[31] Date New Oil	[32] Gas Delivery Date	[33] Test Date	[34] Test Length	[35] Tbg. Pressure	[36] Csg. Pressure
04/20/2022	04/20/2022	04/27/2022	24 HRS		697
[37] Choke Size	**[38] Oil**	**[39] Water**	**[40] Gas**		**[41] Test Method**
128	2936	11,180	3782		

[42] I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.	OIL CONSERVATION DIVISION
Signature: Kay Maddox	Approved by:
Printed name: Kay Maddox	Title:
Title: SENIOR REGULATORY SPECIALIST	Approval Date:
E-mail Address: kay_maddox@eogresources.com	
Date: 05/10/2022 Phone: 432-638-8475	

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**

AS-COMPLETED

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1]API Number	[2]Pool Code	[3]Pool Name
30-025- 47719	97903	WC025 G08 S253235G; LOWER BONE SPRING

[4]Property Code	[5]Property Name	[6]Well Number
329701	RUTHLESS 11 FED COM	505H

[7]OGRID No.	[8]Operator Name	[9]Elevation
7377	EOG RESOURCES, INC.	3511'

[10]Surface Location

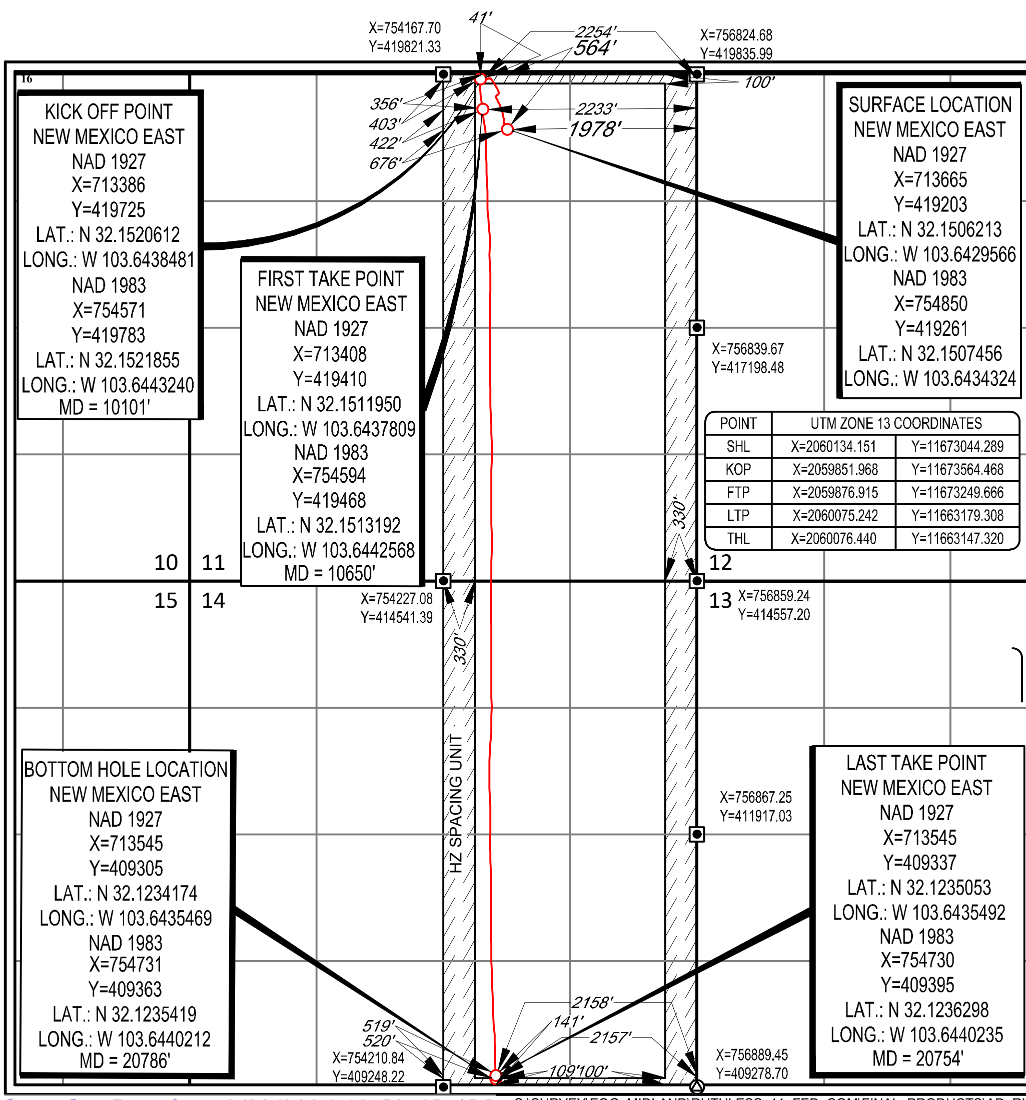
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	11	25-S	32-E	-	564'	NORTH	1978'	EAST	LEA

[11]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
O	14	25-S	32-E	-	109'	SOUTH	2157'	EAST	LEA

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

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.



POINT	UTM ZONE 13 COORDINATES	
SHL	X=2060134.151	Y=11673044.289
KOP	X=2059851.968	Y=11673564.468
FTP	X=2059876.915	Y=11673249.666
LTP	X=2060075.242	Y=11663179.308
THL	X=2060076.440	Y=11663147.320

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

Kay Maddox 05/09/2022
Signature Date

KAY MADDOX
Printed Name

KAY_MADDOX@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.

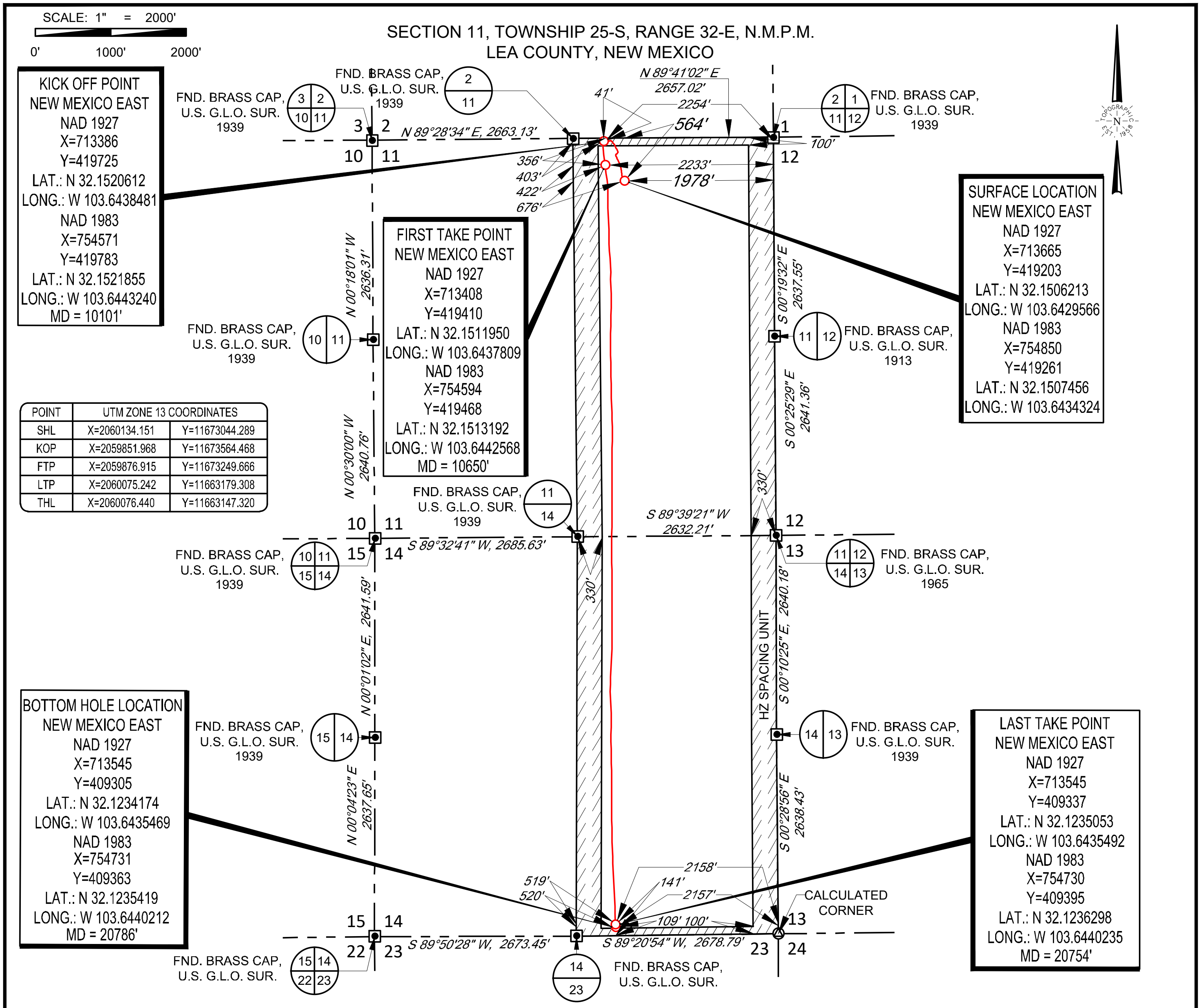
12/16/2021
Date of Survey
Signature and Seal of Professional Surveyor

RAMON A. DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

Certificate Number

S:\SURVEY\EOG_MIDLAND\RUTHLESS_11_FED_COM\FINAL_PRODUCTS\AD_RUTHLESS_11_FED_COM_505H.DWG 4/18/2022 9:03:14 AM kenneth.stallings

SECTION 11, TOWNSHIP 25-S, RANGE 32-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



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THL	X=2060076.440	Y=11663147.320

LEASE NAME & WELL NO.: RUTHLESS 11 FED COM 505H

SECTION 11 TWP 25-S RGE 32-E SURVEY N.M.P.M.

COUNTY LEA STATE NM ELEVATION 3511'

DESCRIPTION 564' FNL & 1978' FEL

RAMON A. DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM

eog resources, inc.

Ramon A. Dominguez, P.S. No. 24508
APRIL 13, 2022

RUTHLESS FED COM 505H AS-DRILLED	REVISION:	
DATE: 04/13/2022		
FILE: AD_RUTHLESS_11_FED_COM_505H		
DRAWN BY: A.V.F.		
SHEET : 2 OF 2		

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

S:\SURVEY\EOG_MIDLAND\RUTHLESS_11_FED_COM\FINAL_PRODUCTS\AD_RUTHLESS_11_FED_COM_505H.DWG 4/18/2022 9:03:15 AM kenneth.stallings

Midland

Lea County, NM (NAD 83 NME)
Ruthless 11 Fed Com
#505H
OH

Design: OH

Final PVA

05 March, 2022

eog resources

Final PVA

Company:	Midland	**Local Co-ordinate Reference:**	Well #505H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3536.0usft
Site:	Ruthless 11 Fed Com	**MD Reference:**	KB = 25 @ 3536.0usft
Well:	#505H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	PEDM

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 "	**Grid Convergence:**	0.36 °

Well	#505H					
Well Position	**+N/-S**	0.0 usft	**Northing:**	419,261.00 usft	**Latitude:**	32° 9' 2.687 N
	+E/-W	0.0 usft	**Easting:**	754,850.00 usft	**Longitude:**	103° 38' 36.359 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,511.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/7/2022	6.51	59.80	47,383.98712984

Design OH

Audit Notes:

Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	180.82

Survey Program **Date** 3/5/2022

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
180.0	20,786.0	Driltech MWD (OH)	EOG MWD+IFR1	MWD + IFR1

Company:	Midland	**Local Co-ordinate Reference:**	Well #505H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3536.0usft
Site:	Ruthless 11 Fed Com	**MD Reference:**	KB = 25 @ 3536.0usft
Well:	#505H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	PEDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
180.0	1.06	197.46	180.0	-1.6	-0.5	0.59	0.59	0.00	-1.7	0.0
209.0	0.88	216.09	209.0	-2.0	-0.7	1.24	-0.62	64.24	-2.1	0.6
266.0	1.06	193.85	266.0	-2.9	-1.1	0.73	0.32	-39.02	-3.1	-0.4
324.0	0.97	198.16	324.0	-3.9	-1.4	0.20	-0.16	7.43	-4.1	-0.1
442.0	2.20	206.86	441.9	-6.8	-2.7	1.06	1.04	7.37	-7.3	0.7
500.0	0.79	225.85	499.9	-8.1	-3.5	2.54	-2.43	32.74	-8.2	3.4
558.0	0.53	237.54	557.9	-8.5	-4.0	0.50	-0.45	20.16	-8.0	5.1
645.0	0.53	201.15	644.9	-9.1	-4.5	0.38	0.00	-41.83	-10.1	-0.9
743.0	0.62	227.95	742.9	-9.9	-5.1	0.29	0.09	27.35	-10.4	4.0
837.0	1.06	208.00	836.9	-11.0	-5.8	0.56	0.47	-21.22	-12.5	0.0
932.0	0.70	239.47	931.9	-12.1	-6.8	0.62	-0.38	33.13	-12.0	7.0
1,026.0	0.88	330.44	1,025.9	-11.8	-7.6	1.21	0.19	96.78	6.5	12.4
1,125.0	1.93	358.47	1,124.8	-9.4	-8.0	1.24	1.06	28.31	9.2	8.3
1,220.0	4.40	344.85	1,219.7	-4.3	-9.0	2.70	2.60	-14.34	1.9	9.8
1,315.0	7.30	334.65	1,314.2	4.7	-12.6	3.23	3.05	-10.74	-7.3	9.5
1,411.0	8.09	338.96	1,409.3	16.5	-17.6	1.02	0.82	4.49	-14.0	10.4
1,506.0	8.18	342.92	1,503.4	29.2	-22.0	0.60	0.09	4.17	-18.5	11.1
1,601.0	8.18	342.74	1,597.4	42.1	-26.0	0.03	0.00	-0.19	-23.5	10.4
1,696.0	8.09	346.08	1,691.4	55.0	-29.6	0.51	-0.09	3.52	-27.7	10.9
1,791.0	8.27	349.33	1,785.5	68.2	-32.5	0.52	0.19	3.42	-32.0	11.2
1,885.0	8.18	351.44	1,878.5	81.5	-34.7	0.34	-0.10	2.24	-36.7	10.6
1,980.0	8.79	354.52	1,972.5	95.4	-36.4	0.80	0.64	3.24	-41.8	10.5
2,075.0	8.00	359.35	2,066.4	109.2	-37.2	1.11	-0.83	5.08	-46.6	11.5
2,171.0	7.83	354.87	2,161.5	122.4	-37.8	0.67	-0.18	-4.67	-52.2	4.8
2,266.0	8.18	344.76	2,255.6	135.4	-40.2	1.52	0.37	-10.64	-56.7	-6.5
2,361.0	8.35	349.60	2,349.6	148.7	-43.2	0.75	0.18	5.09	-62.2	-2.9

Company:	Midland	**Local Co-ordinate Reference:**	Well #505H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3536.0usft
Site:	Ruthless 11 Fed Com	**MD Reference:**	KB = 25 @ 3536.0usft
Well:	#505H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	PEDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
2,456.0	8.44	348.63	2,443.6	162.3	-45.8	0.18	0.09	-1.02	-67.6	-5.6
2,550.0	8.27	349.86	2,536.6	175.7	-48.4	0.26	-0.18	1.31	-72.9	-5.8
2,645.0	8.35	348.63	2,630.6	189.2	-50.9	0.21	0.08	-1.29	-78.0	-9.0
2,740.0	7.65	337.99	2,724.7	201.9	-54.7	1.72	-0.74	-11.20	-79.5	-24.5
2,835.0	7.65	337.20	2,818.8	213.6	-59.5	0.11	0.00	-0.83	-83.1	-25.5
2,930.0	7.74	341.25	2,913.0	225.4	-64.0	0.58	0.09	4.26	-88.8	-19.6
3,025.0	7.56	335.27	3,007.1	237.2	-68.7	0.86	-0.19	-6.29	-90.3	-28.9
3,121.0	7.30	329.29	3,102.3	248.2	-74.4	0.85	-0.27	-6.23	-90.5	-37.4
3,216.0	7.30	331.49	3,196.6	258.6	-80.4	0.29	0.00	2.32	-95.3	-32.7
3,311.0	6.86	334.21	3,290.8	269.1	-85.7	0.58	-0.46	2.86	-99.9	-27.3
3,406.0	5.45	334.39	3,385.3	278.2	-90.2	1.48	-1.48	0.19	-101.5	-26.3
3,501.0	5.01	333.42	3,479.9	286.0	-94.0	0.47	-0.46	-1.02	-101.0	-27.4
3,596.0	4.13	334.04	3,574.6	292.8	-97.3	0.93	-0.93	0.65	-100.2	-25.6
3,690.0	2.90	353.29	3,668.4	298.2	-99.1	1.80	-1.31	20.48	-100.4	7.6
3,785.0	4.22	339.40	3,763.2	303.9	-100.6	1.65	1.39	-14.62	-96.4	-17.4
3,880.0	5.72	330.17	3,857.9	311.2	-104.2	1.78	1.58	-9.72	-92.0	-31.9
3,975.0	4.84	327.01	3,952.5	318.7	-108.7	0.98	-0.93	-3.33	-90.3	-35.5
4,070.0	4.04	330.08	4,047.2	325.0	-112.6	0.88	-0.84	3.23	-90.8	-29.2
4,165.0	3.34	344.94	4,142.0	330.5	-114.9	1.24	-0.74	15.64	-92.7	-5.2
4,261.0	3.34	5.59	4,237.8	336.0	-115.4	1.25	0.00	21.51	-86.2	24.7
4,356.0	3.17	14.47	4,332.7	341.3	-114.5	0.56	-0.18	9.35	-79.7	33.0
4,451.0	2.11	46.20	4,427.6	345.1	-112.6	1.86	-1.12	33.40	-51.2	63.2
4,546.0	4.22	38.90	4,522.4	349.0	-109.1	2.26	2.22	-7.68	-59.8	48.4
4,641.0	4.13	57.10	4,617.2	353.6	-104.0	1.39	-0.09	19.16	-46.8	57.2
4,735.0	4.57	56.92	4,710.9	357.5	-98.1	0.47	0.47	-0.19	-52.4	48.6
4,829.0	4.48	40.66	4,804.6	362.3	-92.5	1.36	-0.10	-17.30	-67.1	23.5
4,925.0	5.36	20.97	4,900.3	369.3	-88.5	1.97	0.92	-20.51	-72.7	-7.7

Company:	Midland	**Local Co-ordinate Reference:**	Well #505H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3536.0usft
Site:	Ruthless 11 Fed Com	**MD Reference:**	KB = 25 @ 3536.0usft
Well:	#505H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	PEDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
5,019.0	5.72	5.06	4,993.8	378.1	-86.5	1.67	0.38	-16.93	-69.1	-32.4
5,114.0	8.44	334.48	5,088.1	389.1	-89.1	4.80	2.86	-32.19	-45.5	-64.8
5,209.0	8.53	335.62	5,182.1	401.8	-95.0	0.20	0.09	1.20	-52.1	-63.4
5,304.0	8.35	335.09	5,276.1	414.5	-100.8	0.21	-0.19	-0.56	-56.9	-63.4
5,398.0	8.00	332.98	5,369.1	426.5	-106.6	0.49	-0.37	-2.24	-59.4	-64.9
5,494.0	8.00	333.24	5,464.2	438.4	-112.7	0.04	0.00	0.27	-64.3	-63.9
5,588.0	8.18	333.15	5,557.3	450.2	-118.7	0.19	0.19	-0.10	-68.9	-63.2
5,683.0	7.30	331.66	5,651.4	461.6	-124.6	0.95	-0.93	-1.57	-71.5	-64.2
5,778.0	6.68	328.49	5,745.7	471.6	-130.3	0.77	-0.65	-3.34	-70.9	-66.8
5,874.0	6.33	325.77	5,841.1	480.7	-136.2	0.49	-0.36	-2.83	-69.9	-68.5
5,969.0	6.33	323.66	5,935.5	489.3	-142.3	0.24	0.00	-2.22	-69.5	-69.0
6,064.0	5.72	324.63	6,030.0	497.4	-148.1	0.65	-0.64	1.02	-72.2	-65.7
6,159.0	5.63	322.96	6,124.5	504.9	-153.7	0.20	-0.09	-1.76	-71.2	-65.6
6,254.0	5.36	324.89	6,219.1	512.3	-159.0	0.34	-0.28	2.03	-74.1	-61.1
6,350.0	3.87	322.78	6,314.7	518.5	-163.6	1.56	-1.55	-2.20	-71.0	-61.6
6,445.0	2.99	322.43	6,409.6	523.1	-167.0	0.93	-0.93	-0.37	-67.9	-59.7
6,539.0	1.85	304.24	6,503.5	525.9	-169.8	1.45	-1.21	-19.35	-42.6	-73.9
6,634.0	1.49	276.82	6,598.4	526.9	-172.3	0.91	-0.38	-28.86	-2.2	-78.3
6,729.0	1.76	279.72	6,693.4	527.3	-174.9	0.30	0.28	3.05	-4.4	-70.6
6,824.0	1.67	278.31	6,788.4	527.7	-177.7	0.10	-0.09	-1.48	-1.1	-63.2
6,919.0	1.76	98.05	6,883.4	527.7	-177.7	3.61	0.09	189.20	-3.8	55.7
7,014.0	1.93	278.75	6,978.3	527.7	-177.8	3.88	0.18	-188.74	7.2	-48.3
7,110.0	1.85	277.69	7,074.3	528.2	-180.9	0.09	-0.08	-1.10	9.2	-40.6
7,205.0	1.49	281.30	7,169.2	528.6	-183.7	0.39	-0.38	3.80	8.6	-33.7
7,300.0	1.76	274.79	7,264.2	529.0	-186.3	0.34	0.28	-6.85	13.5	-25.2
7,395.0	1.76	262.40	7,359.2	528.9	-189.2	0.40	0.00	-13.04	17.1	-16.4
7,490.0	2.02	250.27	7,454.1	528.2	-192.2	0.50	0.27	-12.77	17.1	-10.2

eog resources

Final PVA

Company:	Midland	**Local Co-ordinate Reference:**	Well #505H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3536.0usft
Site:	Ruthless 11 Fed Com	**MD Reference:**	KB = 25 @ 3536.0usft
Well:	#505H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	PEDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
7,584.0	1.85	252.03	7,548.1	527.1	-195.2	0.19	-0.18	1.87	13.6	-10.5
7,679.0	1.85	252.38	7,643.0	526.2	-198.2	0.01	0.00	0.37	10.5	-10.5
7,774.0	1.49	254.93	7,738.0	525.4	-200.8	0.39	-0.38	2.68	7.3	-10.9
7,869.0	1.41	253.61	7,832.9	524.8	-203.1	0.09	-0.08	-1.39	5.1	-10.8
7,964.0	1.49	251.85	7,927.9	524.1	-205.4	0.10	0.08	-1.85	3.0	-10.6
8,059.0	1.58	254.23	8,022.9	523.3	-207.9	0.12	0.09	2.51	0.1	-10.7
8,154.0	1.49	260.64	8,117.8	522.8	-210.3	0.20	-0.09	6.75	-3.7	-10.5
8,249.0	1.58	256.60	8,212.8	522.3	-212.8	0.15	0.09	-4.25	-5.5	-10.8
8,344.0	1.49	256.95	8,307.8	521.7	-215.3	0.10	-0.09	0.37	-8.1	-10.8
8,439.0	1.49	253.52	8,402.7	521.0	-217.7	0.09	0.00	-3.61	-9.9	-11.3
8,534.0	1.58	256.51	8,497.7	520.4	-220.2	0.13	0.09	3.15	-13.0	-10.7
8,629.0	1.85	253.35	8,592.7	519.6	-222.9	0.30	0.28	-3.33	-15.2	-11.5
8,724.0	1.76	252.38	8,687.6	518.8	-225.8	0.10	-0.09	-1.02	-18.0	-11.8
8,819.0	1.67	251.06	8,782.6	517.9	-228.5	0.10	-0.09	-1.39	-20.6	-12.2
8,914.0	1.58	255.37	8,877.5	517.1	-231.0	0.16	-0.09	4.54	-24.2	-10.5
9,009.0	1.49	275.23	8,972.5	516.9	-233.5	0.56	-0.09	20.91	-28.8	-1.3
9,104.0	2.11	277.69	9,067.5	517.2	-236.5	0.66	0.65	2.59	-31.8	0.0
9,199.0	2.20	286.31	9,162.4	518.0	-240.0	0.35	0.09	9.07	-35.0	5.1
9,294.0	3.08	273.83	9,257.3	518.7	-244.3	1.10	0.93	-13.14	-39.6	-3.0
9,389.0	1.67	275.32	9,352.2	519.0	-248.2	1.49	-1.48	1.57	-43.6	-1.9
9,484.0	1.85	290.09	9,447.2	519.6	-251.0	0.51	0.19	15.55	-45.5	9.6
9,579.0	2.46	298.08	9,542.1	521.1	-254.3	0.71	0.64	8.41	-47.3	16.1
9,673.0	3.25	300.02	9,636.0	523.4	-258.3	0.85	0.84	2.06	-51.4	17.7
9,769.0	2.99	290.61	9,731.8	525.6	-263.0	0.60	-0.27	-9.80	-58.8	8.6
9,864.0	2.73	266.88	9,826.7	526.4	-267.6	1.27	-0.27	-24.98	-61.8	-16.8
10,010.0	2.99	252.38	9,972.5	525.0	-274.7	0.52	0.18	-9.93	-62.8	-32.6

Company:	Midland	**Local Co-ordinate Reference:**	Well #505H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3536.0usft
Site:	Ruthless 11 Fed Com	**MD Reference:**	KB = 25 @ 3536.0usft
Well:	#505H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	PEDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
10,101.0	4.07	225.60	10,063.4	522.0	-279.3	2.13	1.18	-29.43	-45.6	-59.6
KOP, MD:10101.0', TVD:10063.4',N/S:522.0', E/W:-279.3', INC:4.07										
10,105.0	4.13	224.78	10,067.4	521.8	-279.5	2.13	1.55	-20.55	-44.8	-60.5
10,200.0	22.07	182.86	10,159.6	501.4	-282.8	20.20	18.88	-44.13	1.6	-78.1
10,286.2	31.72	178.68	10,236.4	462.5	-283.1	11.40	11.19	-4.85	-6.2	-78.5
FTP Crossing, MD:10286.2', TVD:10236.4',N/S:462.5', E/W:-283.1', INC:31.72										
10,295.0	32.71	178.38	10,243.9	457.8	-283.0	11.40	11.26	-3.39	-7.3	-78.5
10,390.0	38.78	175.83	10,320.9	402.4	-280.1	6.58	6.39	-2.68	-17.4	-76.8
10,485.0	43.35	172.93	10,392.5	340.3	-273.9	5.21	4.81	-3.05	-20.6	-72.0
10,580.0	55.22	171.08	10,454.4	269.2	-263.8	12.58	12.49	-1.95	-23.4	-62.5
10,675.0	68.50	175.21	10,499.1	186.2	-254.0	14.49	13.98	4.35	-33.5	-52.1
10,770.0	68.59	172.31	10,533.9	98.3	-244.4	2.84	0.09	-3.05	-34.5	-43.4
10,865.0	68.41	170.56	10,568.7	10.9	-231.3	1.72	-0.19	-1.84	-19.1	-30.5
10,960.0	80.64	176.97	10,594.0	-79.9	-221.5	14.42	12.87	6.75	0.2	-20.1
11,054.0	89.60	181.98	10,602.0	-173.4	-220.7	10.91	9.53	5.33	8.6	-19.9
11,150.0	91.10	178.55	10,601.4	-269.4	-221.1	3.90	1.56	-3.57	8.5	-20.9
11,245.0	94.00	176.62	10,597.2	-364.2	-217.1	3.67	3.05	-2.03	4.7	-17.5
11,340.0	95.32	177.67	10,589.5	-458.8	-212.4	1.77	1.39	1.11	-2.5	-13.4
11,435.0	91.54	178.38	10,583.8	-553.5	-209.1	4.05	-3.98	0.75	-7.6	-10.7
11,529.0	91.89	178.11	10,581.0	-647.4	-206.2	0.47	0.37	-0.29	-9.9	-8.4
11,624.0	94.62	179.61	10,575.6	-742.3	-204.4	3.28	2.87	1.58	-14.8	-7.1
11,719.0	87.93	178.47	10,573.5	-837.2	-202.8	7.14	-7.04	-1.20	-16.4	-6.1
11,814.0	87.49	174.69	10,577.3	-931.9	-197.1	4.00	-0.46	-3.98	-12.1	-1.0
11,909.0	92.07	174.60	10,577.6	-1,026.5	-188.2	4.82	4.82	-0.09	-11.2	7.3
12,004.0	97.61	177.41	10,569.6	-1,120.9	-181.6	6.53	5.83	2.96	-18.6	13.4
12,099.0	89.08	181.63	10,564.1	-1,215.6	-180.9	10.01	-8.98	4.44	-23.7	13.5
12,193.0	90.40	180.84	10,564.5	-1,309.6	-182.9	1.64	1.40	-0.84	-22.8	10.9

Company:	Midland	**Local Co-ordinate Reference:**	Well #505H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3536.0usft
Site:	Ruthless 11 Fed Com	**MD Reference:**	KB = 25 @ 3536.0usft
Well:	#505H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	PEDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,288.0	90.66	177.24	10,563.6	-1,404.5	-181.3	3.80	0.27	-3.79	-23.2	11.9
12,383.0	91.54	176.44	10,561.8	-1,499.4	-176.1	1.25	0.93	-0.84	-24.5	16.6
12,478.0	90.66	178.99	10,560.0	-1,594.3	-172.3	2.84	-0.93	2.68	-25.8	19.8
12,573.0	89.08	183.04	10,560.2	-1,689.2	-174.0	4.58	-1.66	4.26	-25.1	17.5
12,668.0	88.99	181.89	10,561.8	-1,784.1	-178.0	1.21	-0.09	-1.21	-23.0	12.8
12,763.0	88.81	180.75	10,563.6	-1,879.1	-180.2	1.21	-0.19	-1.20	-20.6	10.1
12,819.0	89.34	180.66	10,564.5	-1,935.1	-180.9	0.96	0.95	-0.16	-19.4	9.0
12,914.0	89.16	180.57	10,565.8	-2,030.0	-181.9	0.21	-0.19	-0.09	-17.7	7.4
13,009.0	88.37	179.43	10,567.8	-2,125.0	-181.9	1.46	-0.83	-1.20	-15.1	6.8
13,102.0	89.52	180.31	10,569.5	-2,218.0	-181.7	1.56	1.24	0.95	-12.9	6.5
13,198.0	88.90	179.78	10,570.9	-2,314.0	-181.8	0.85	-0.65	-0.55	-11.0	5.8
13,292.0	88.99	179.61	10,572.6	-2,408.0	-181.3	0.20	0.10	-0.18	-8.8	5.7
13,387.0	88.46	178.73	10,574.7	-2,502.9	-179.9	1.08	-0.56	-0.93	-6.2	6.5
13,482.0	88.37	178.38	10,577.3	-2,597.9	-177.5	0.38	-0.09	-0.37	-3.0	8.3
13,577.0	91.89	179.08	10,577.1	-2,692.8	-175.4	3.78	3.71	0.74	-2.7	9.9
13,672.0	92.68	179.17	10,573.3	-2,787.7	-174.0	0.84	0.83	0.09	-6.0	10.7
13,767.0	92.59	178.99	10,569.0	-2,882.6	-172.5	0.21	-0.09	-0.19	-9.9	11.7
13,862.0	92.51	177.50	10,564.7	-2,977.5	-169.6	1.57	-0.08	-1.57	-13.6	14.0
13,957.0	92.95	177.32	10,560.2	-3,072.3	-165.3	0.50	0.46	-0.19	-17.6	17.7
14,052.0	92.15	179.17	10,556.0	-3,167.1	-162.4	2.12	-0.84	1.95	-21.3	20.0
14,146.0	92.51	179.34	10,552.2	-3,261.1	-161.1	0.42	0.38	0.18	-24.6	20.7
14,241.0	90.22	180.05	10,549.9	-3,356.0	-160.6	2.52	-2.41	0.75	-26.4	20.6
14,336.0	90.66	180.75	10,549.2	-3,451.0	-161.3	0.87	0.46	0.74	-26.6	19.3
14,431.0	89.52	180.66	10,549.0	-3,546.0	-162.5	1.20	-1.20	-0.09	-26.2	17.6
14,526.0	91.10	180.93	10,548.5	-3,641.0	-163.8	1.69	1.66	0.28	-26.2	15.7
14,621.0	90.75	180.75	10,547.0	-3,736.0	-165.2	0.41	-0.37	-0.19	-27.3	13.7
14,716.0	90.75	180.13	10,545.7	-3,831.0	-165.9	0.65	0.00	-0.65	-28.0	12.4

Company:	Midland	**Local Co-ordinate Reference:**	Well #505H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3536.0usft
Site:	Ruthless 11 Fed Com	**MD Reference:**	KB = 25 @ 3536.0usft
Well:	#505H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	PEDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
14,811.0	91.10	179.70	10,544.2	-3,925.9	-165.8	0.58	0.37	-0.45	-29.0	11.9
14,906.0	91.28	179.08	10,542.2	-4,020.9	-164.8	0.68	0.19	-0.65	-30.5	12.4
15,001.0	91.28	178.82	10,540.1	-4,115.9	-163.0	0.27	0.00	-0.27	-32.1	13.5
15,097.0	90.66	179.96	10,538.5	-4,211.9	-162.0	1.35	-0.65	1.19	-33.2	14.0
15,191.0	91.01	180.22	10,537.1	-4,305.8	-162.1	0.46	0.37	0.28	-34.1	13.2
15,287.0	90.40	179.87	10,535.9	-4,401.8	-162.2	0.73	-0.64	-0.36	-34.7	12.6
15,382.0	90.57	181.28	10,535.1	-4,496.8	-163.2	1.49	0.18	1.48	-35.0	11.0
15,477.0	90.57	181.10	10,534.2	-4,591.8	-165.1	0.19	0.00	-0.19	-35.4	8.5
15,572.0	90.31	180.93	10,533.4	-4,686.8	-166.8	0.33	-0.27	-0.18	-35.7	6.2
15,667.0	90.48	180.31	10,532.8	-4,781.8	-167.8	0.68	0.18	-0.65	-35.8	4.6
15,762.0	91.98	181.28	10,530.7	-4,876.7	-169.2	1.88	1.58	1.02	-37.3	2.7
15,857.0	89.60	179.78	10,529.4	-4,971.7	-170.0	2.96	-2.51	-1.58	-38.1	1.2
15,951.0	89.08	178.47	10,530.5	-5,065.7	-168.6	1.50	-0.55	-1.39	-36.5	2.1
16,046.0	88.46	178.90	10,532.6	-5,160.7	-166.4	0.79	-0.65	0.45	-34.0	3.7
16,140.0	87.93	179.26	10,535.5	-5,254.6	-164.9	0.68	-0.56	0.38	-30.5	4.6
16,236.0	90.31	179.52	10,537.0	-5,350.6	-163.9	2.49	2.48	0.27	-28.5	5.1
16,331.0	94.18	180.93	10,533.3	-5,445.5	-164.3	4.34	4.07	1.48	-31.7	4.1
16,426.0	91.63	180.75	10,528.5	-5,540.3	-165.7	2.69	-2.68	-0.19	-36.0	2.1
16,521.0	91.01	179.96	10,526.3	-5,635.3	-166.2	1.06	-0.65	-0.83	-37.7	1.0
16,616.0	86.88	179.43	10,528.0	-5,730.3	-165.7	4.38	-4.35	-0.56	-35.5	0.9
16,711.0	87.05	178.82	10,533.1	-5,825.1	-164.3	0.67	0.18	-0.64	-29.9	1.7
16,805.0	90.04	178.90	10,535.4	-5,919.1	-162.4	3.18	3.18	0.09	-27.0	3.0
16,900.0	92.51	180.31	10,533.3	-6,014.0	-161.8	2.99	2.60	1.48	-28.6	3.1
16,995.0	93.03	180.57	10,528.7	-6,108.9	-162.5	0.61	0.55	0.27	-32.7	1.8
17,090.0	93.12	181.10	10,523.6	-6,203.8	-163.9	0.57	0.09	0.56	-37.3	-0.2
17,184.0	92.95	182.86	10,518.7	-6,297.6	-167.1	1.88	-0.18	1.87	-41.8	-4.0
17,280.0	95.58	183.91	10,511.5	-6,393.1	-172.8	2.95	2.74	1.09	-48.4	-10.3

Company:	Midland	**Local Co-ordinate Reference:**	Well #505H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3536.0usft
Site:	Ruthless 11 Fed Com	**MD Reference:**	KB = 25 @ 3536.0usft
Well:	#505H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	PEDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
17,375.0	92.95	183.74	10,504.5	-6,487.6	-179.1	2.77	-2.77	-0.18	-54.9	-17.1
17,469.0	88.11	181.63	10,503.6	-6,581.5	-183.5	5.62	-5.15	-2.24	-55.3	-22.1
17,564.0	88.11	181.19	10,506.7	-6,676.4	-185.8	0.46	0.00	-0.46	-51.7	-25.0
17,659.0	90.22	179.78	10,508.1	-6,771.4	-186.6	2.67	2.22	-1.48	-49.8	-26.4
17,754.0	89.08	178.73	10,508.7	-6,866.4	-185.4	1.63	-1.20	-1.11	-48.7	-25.8
17,850.0	87.32	175.21	10,511.7	-6,962.2	-180.3	4.10	-1.83	-3.67	-45.1	-21.3
17,944.0	95.85	178.64	10,509.1	-7,055.9	-175.3	9.78	9.07	3.65	-47.2	-16.9
18,039.0	92.59	180.31	10,502.1	-7,150.6	-174.4	3.85	-3.43	1.76	-53.7	-16.6
18,135.0	94.79	180.49	10,495.9	-7,246.4	-175.1	2.30	2.29	0.19	-59.3	-17.9
18,230.0	91.80	181.72	10,490.5	-7,341.3	-176.9	3.40	-3.15	1.29	-64.3	-20.2
18,325.0	88.90	179.52	10,489.9	-7,436.2	-178.0	3.83	-3.05	-2.32	-64.4	-21.8
18,420.0	88.20	178.64	10,492.3	-7,531.2	-176.4	1.18	-0.74	-0.93	-61.5	-20.9
18,515.0	88.37	178.47	10,495.1	-7,626.1	-174.0	0.25	0.18	-0.18	-58.1	-19.1
18,610.0	86.88	178.82	10,499.1	-7,721.0	-171.8	1.61	-1.57	0.37	-53.7	-17.4
18,705.0	88.64	179.26	10,502.8	-7,815.9	-170.2	1.91	1.85	0.46	-49.4	-16.4
18,800.0	88.11	179.96	10,505.5	-7,910.9	-169.6	0.92	-0.56	0.74	-46.2	-16.3
18,895.0	89.96	180.22	10,507.1	-8,005.8	-169.7	1.97	1.95	0.27	-44.1	-17.1
18,990.0	91.89	179.34	10,505.6	-8,100.8	-169.3	2.23	2.03	-0.93	-45.1	-17.3
19,085.0	92.77	179.26	10,501.7	-8,195.7	-168.2	0.93	0.93	-0.08	-48.5	-16.7
19,180.0	93.21	179.78	10,496.7	-8,290.6	-167.4	0.72	0.46	0.55	-52.9	-16.5
19,275.0	91.71	180.05	10,492.7	-8,385.5	-167.2	1.60	-1.58	0.28	-56.5	-17.0
19,371.0	91.54	179.34	10,489.9	-8,481.5	-166.7	0.76	-0.18	-0.74	-58.7	-17.0
19,465.0	90.48	179.17	10,488.3	-8,575.5	-165.5	1.14	-1.13	-0.18	-59.9	-16.4
19,560.0	88.90	179.52	10,488.8	-8,670.4	-164.4	1.70	-1.66	0.37	-58.8	-15.9
19,655.0	87.41	177.67	10,491.8	-8,765.4	-162.1	2.50	-1.57	-1.95	-55.3	-14.1
19,750.0	88.55	177.67	10,495.2	-8,860.2	-158.2	1.20	1.20	0.00	-51.4	-10.9
19,845.0	93.03	178.20	10,493.9	-8,955.1	-154.8	4.75	4.72	0.56	-52.2	-8.0

eog resources

Final PVA

Company:	Midland	**Local Co-ordinate Reference:**	Well #505H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3536.0usft
Site:	Ruthless 11 Fed Com	**MD Reference:**	KB = 25 @ 3536.0usft
Well:	#505H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	PEDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
19,940.0	89.60	178.55	10,491.7	-9,050.0	-152.1	3.63	-3.61	0.37	-53.9	-5.9
20,035.0	90.13	177.67	10,491.9	-9,145.0	-149.0	1.08	0.56	-0.93	-53.1	-3.4
20,131.0	89.25	176.62	10,492.5	-9,240.9	-144.2	1.43	-0.92	-1.09	-52.1	0.8
20,225.0	89.52	176.18	10,493.5	-9,334.7	-138.3	0.55	0.29	-0.47	-50.6	6.2
20,321.0	88.55	176.36	10,495.1	-9,430.5	-132.1	1.03	-1.01	0.19	-48.4	11.8
20,416.0	88.72	178.90	10,497.3	-9,525.3	-128.1	2.68	0.18	2.67	-45.7	15.2
20,511.0	88.99	178.90	10,499.2	-9,620.3	-126.3	0.28	0.28	0.00	-43.3	16.4
20,606.0	88.72	178.38	10,501.1	-9,715.3	-124.1	0.62	-0.28	-0.55	-40.8	18.1
Last MWD Survey (MD=20606.0')										
20,786.0	88.72	178.38	10,505.2	-9,895.1	-119.0	0.00	0.00	0.00	-35.9	22.0
Projection to Bit (MD=20786.0')										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
10,101.0	10,063.4	522.0	-279.3	KOP, MD:10101.0', TVD:10063.4',N/S:522.0', E/W:-279.3', INC:4.07
10,286.2	10,236.4	462.5	-283.1	FTP Crossing, MD:10286.2', TVD:10236.4',N/S:462.5', E/W:-283.1', INC:31.72
20,606.0	10,501.1	-9,715.3	-124.1	Last MWD Survey (MD=20606.0')
20,786.0	10,505.2	-9,895.1	-119.0	Projection to Bit (MD=20786.0')

Checked By: ______________________ Approved By: ______________________ Date: ______________

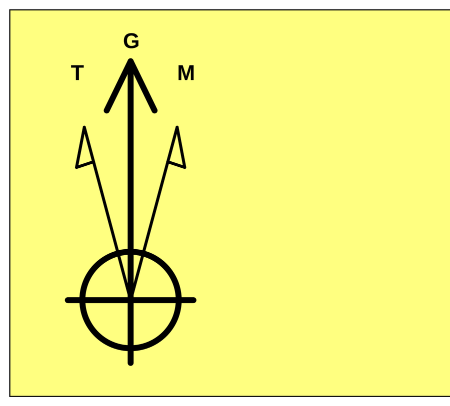
I CERTIFY THIS SURVEY TO BE TRUE AND CORRECT TO THE BEST OF MY BELIEF AND KNOWLEDGE
KAY MADDOX 05/09/2022

eog resources

Lea County, NM (NAD 83 NME)

Ruthless 11 Fed Com #505H

Plan #1



Azimuths to Grid North
True North: -0.37°
Magnetic North: 6.14°

Magnetic Field
Strength: 47384.0nT
Dip Angle: 59.80°
Date: 1/7/2022
Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 6.14°
To convert a Magnetic Direction to a True Direction, Add 6.51° East
To convert a True Direction to a Grid Direction, Subtract 0.37°

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: #505H

3511.0
KB = 25 @ 3536.0usft

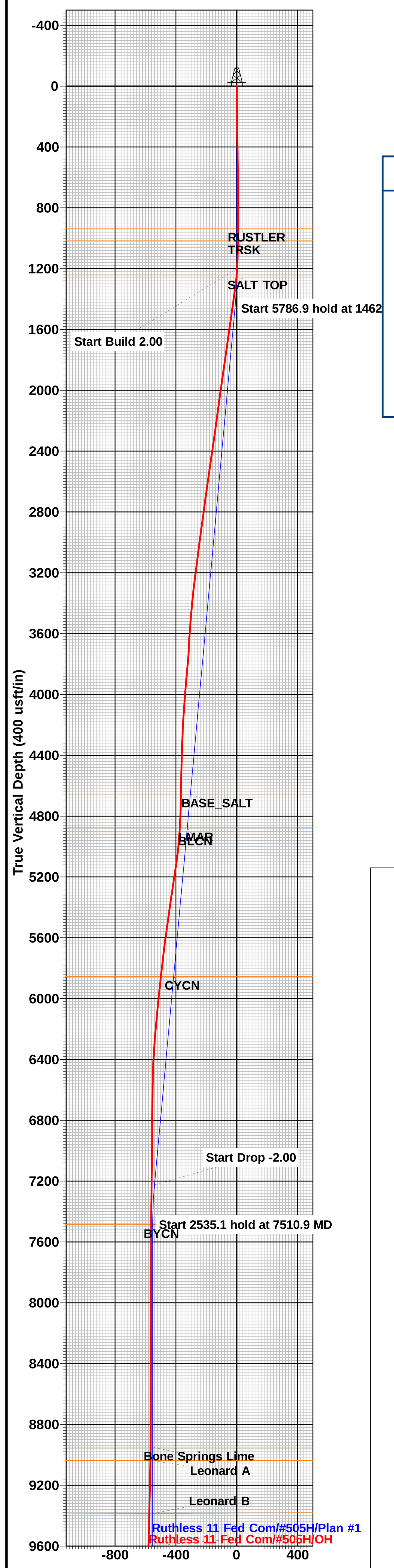
Northing	Easting	Latittude	Longitude
419261.00	754850.00	32° 9' 2.687 N	103° 38' 36.359 W

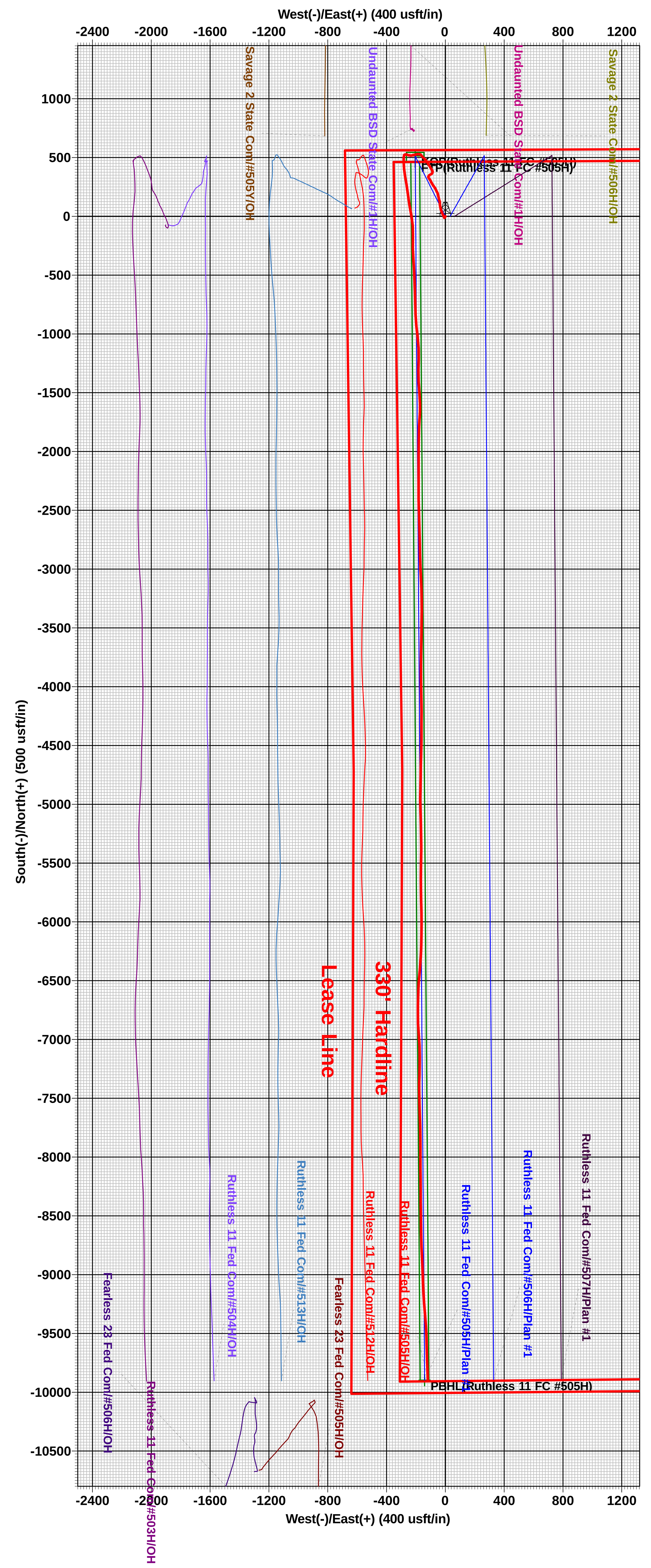
SECTION DETAILS

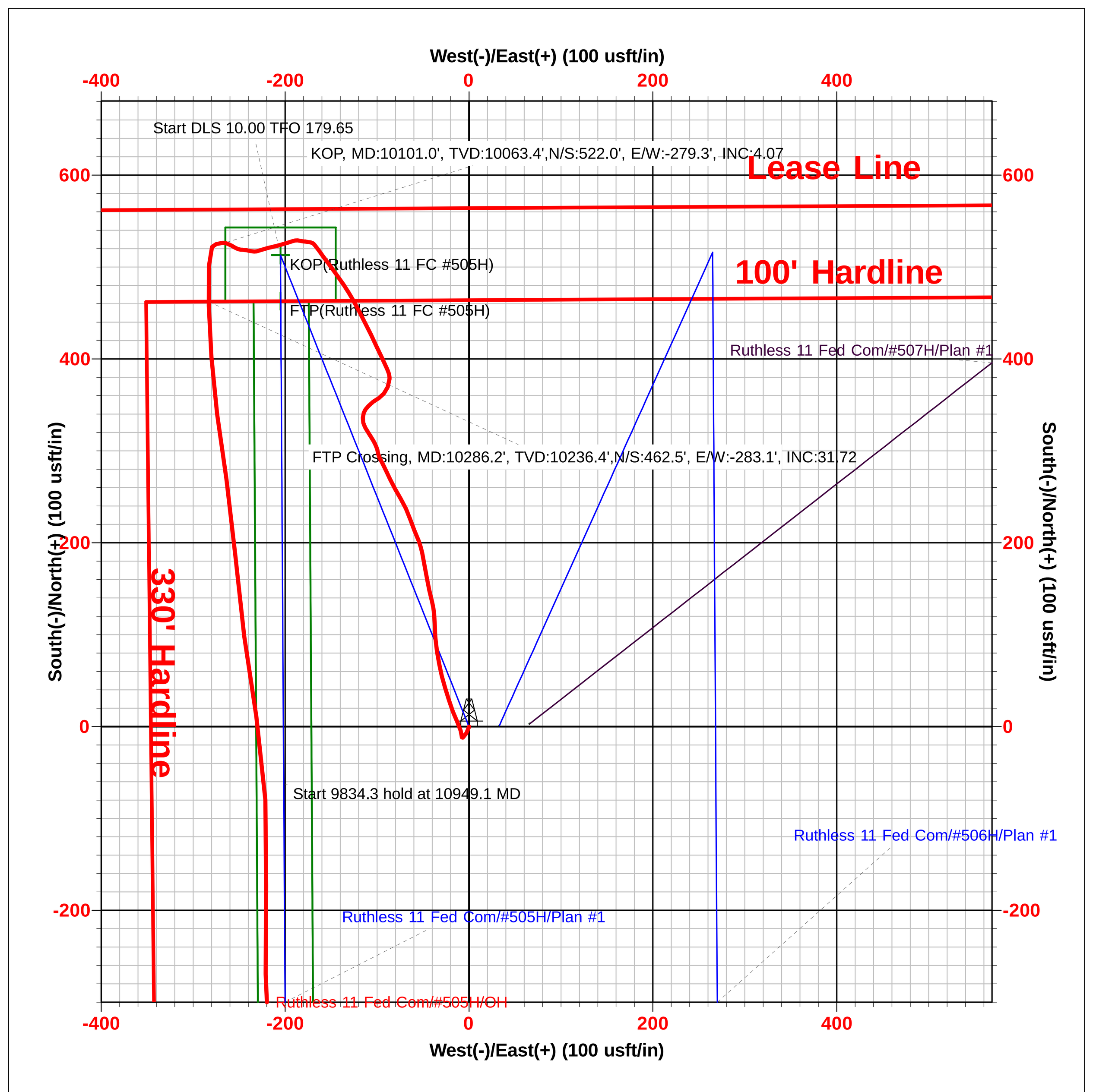
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1462.0	5.24	338.22	1461.6	11.1	-4.4	2.00	338.22	-11.1	
4	7248.9	5.24	338.22	7224.4	501.9	-200.6	0.00	0.00	-499.0	
5	7510.9	0.00	0.00	7486.0	513.0	-205.0	2.00	180.00	-510.0	
6	10046.0	0.00	0.00	10021.1	513.0	-205.0	0.00	0.00	-510.0	KOP(Ruthless 11 FC #505H)
7	10949.1	90.31	179.65	10594.0	-63.0	-201.5	10.00	179.65	65.9	
8	20783.4	90.31	179.65	10541.0	-9897.0	-141.0	0.00	0.00	9898.0	PBHL(Ruthless 11 FC #505H)

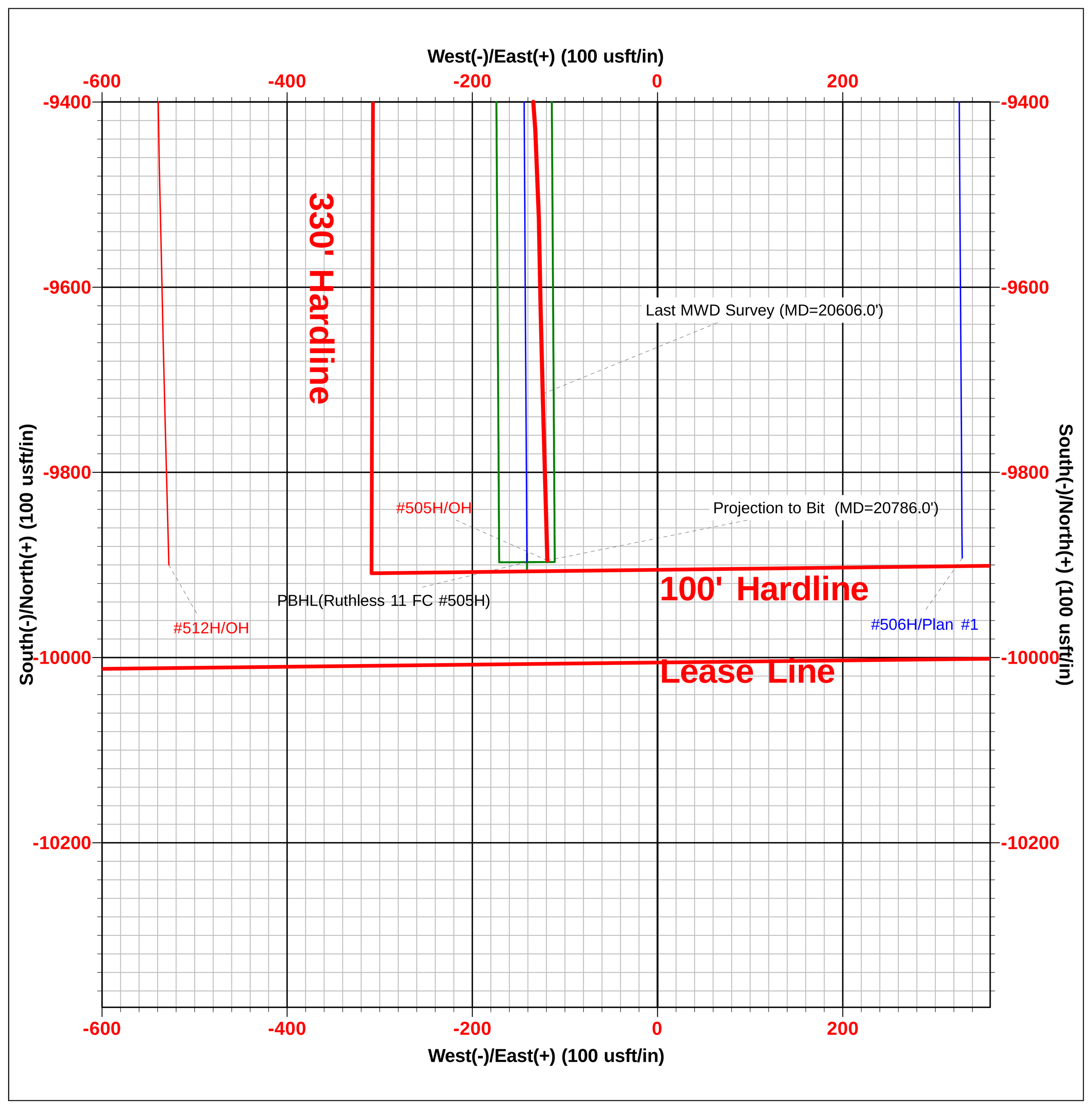
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

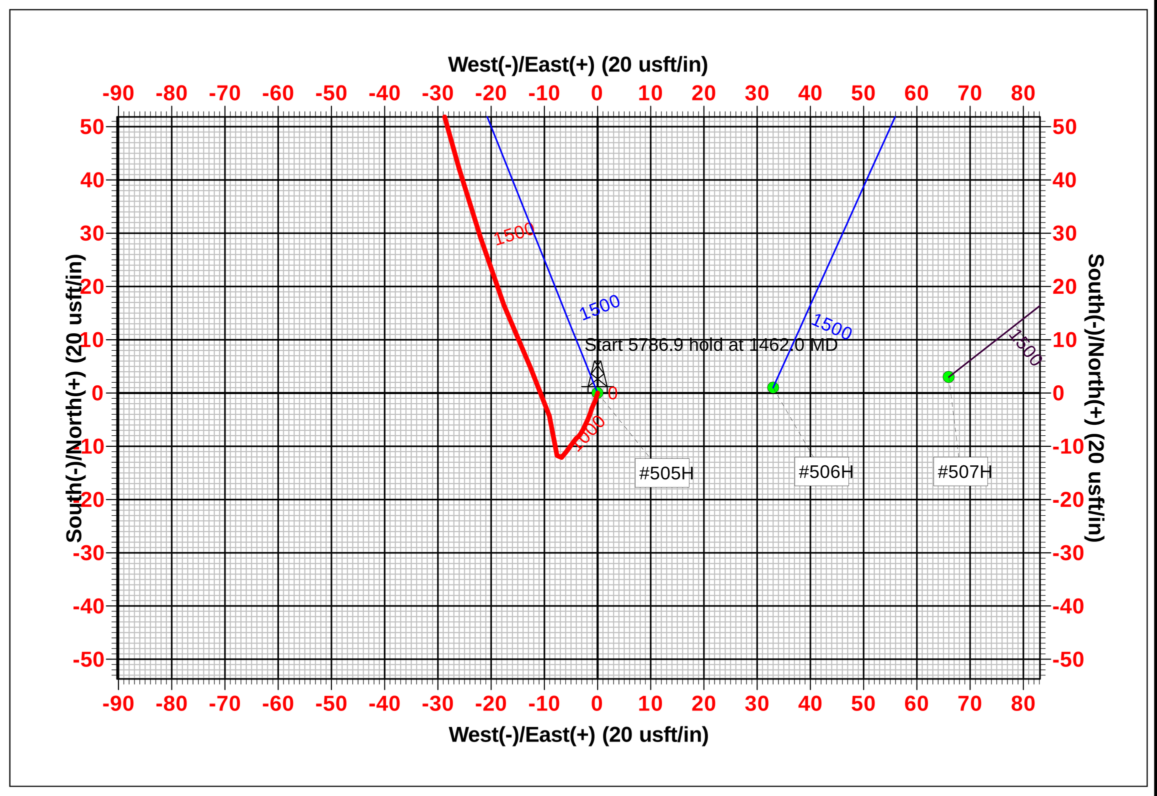
Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Ruthless 11 FC #505H)	10021.1	513.0	-205.0	419774.00	754645.00
PBHL(Ruthless 11 FC #505H)	10541.0	-9897.0	-141.0	409364.00	754709.00
FTP(Ruthless 11 FC #505H)	10656.2	463.0	-205.0	419724.00	754645.00

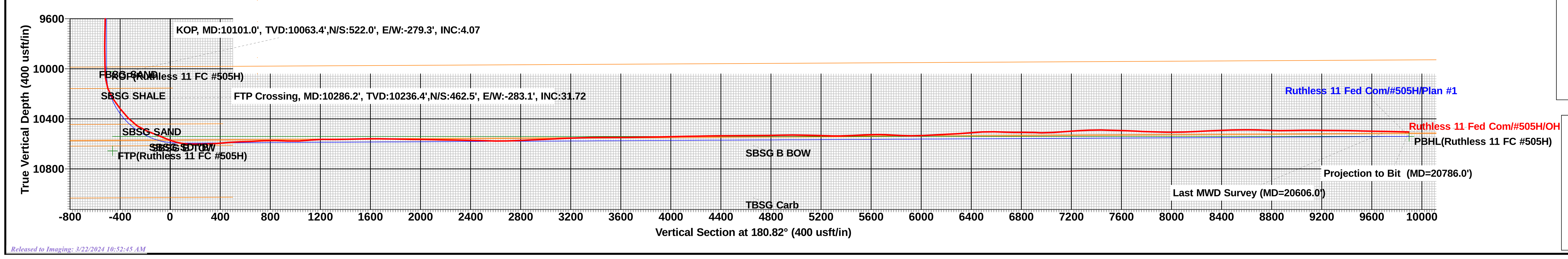


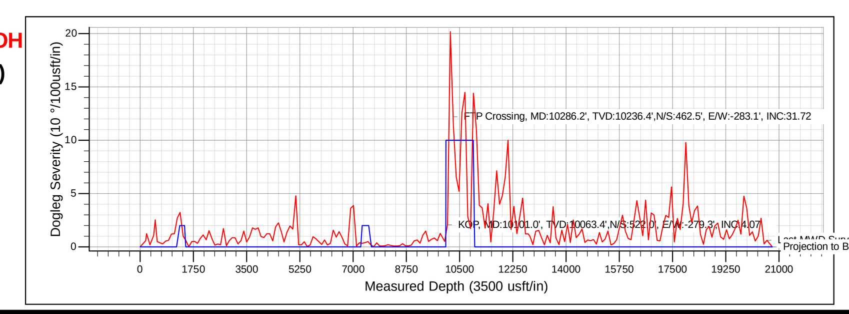












Lea County, NM (NAD 83 NME)
Ruthless 11 Fed Com
#505H
OH
Plan #1
21:04, March 05 2022

Intent ☐ As Drilled ☐

API #

Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Submit To Appropriate District Office
Two Copies
District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-105
Revised August 1, 2011

1. WELL API NO. 30-025-47719

2. Type of Lease ☐ STATE ☐ FEE ☒ FED/INDIAN

3. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

4. Reason for filing:

☒ **COMPLETION REPORT** (Fill in boxes #1 through #31 for State and Fee wells only)

☐ **C-144 CLOSURE ATTACHMENT** (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)

5. Lease Name or Unit Agreement Name: RUTHLESS 11 FEDERAL COM

6. Well Number: 505H

7. Type of Completion:
☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER

8. Name of Operator: EOG RESOURCES INC

9. OGRID: 7377

10. Address of Operator: PO BOX 2267 MIDLAND, TEXAS 79702

11. Pool name or Wildcat: WC025 G08 S253235G; LOWER BONE SPRING

12.Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	B	11	25S	32E		564	NORTH	1978	EAST	LEA
BH:	O	14	25S	32E		109	SOUTH	2157	EAST	LEA

13. Date Spudded	14. Date T.D. Reached	15. Date Rig Released	16. Date Completed (Ready to Produce)	17. Elevations (DF and RKB, RT, GR, etc.)
12/17/2021	02/26/2022	02/28/2022	04/20/2022	3511' GL

18. Total Measured Depth of Well	19. Plug Back Measured Depth	20. Was Directional Survey Made?	21. Type Electric and Other Logs Run
MD 20,786' TVD 10,505'	MD 20,754' TVD 10,505'	YES	None

22. Producing Interval(s), of this completion - Top, Bottom, Name
BONE SPRING 10,650 - 20,754'

23. **CASING RECORD** (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	54.5# J-55	1073'	17 1/2"	730 CL C/CIRC	
7 5/8"	29.7# HCL 80	9958'	8 3/4"	3163 CL C&H TOC @ 78'	ECHO
5 1/2"	20# ECP 110	20,763'	6 3/4"	960 CL H/TOC 9970' CBL	PRESSURE TEST ATTACHED

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET

26. Perforation record (interval, size, and number)
10,650 - 20,754' 3 1/8", 2100 holes

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
10,650 - 20,754'	FRAC W/24,372,255 lbs proppant, 337,744 bbls load fld

28. **PRODUCTION**

Date First Production	Production Method *(Flowing, gas lift, pumping - Size and type pump)*	Well Status *(Prod. or Shut-in)*
04/20/2022	Flowing	Producing

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
04/27/2022	24	128		2936	3782	11,180	1288

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - *(Corr.)*
	697					43

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*: SOLD

30. Test Witnessed By

31. List Attachments: C-102, C-104, Directional Survey, H spacing

32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.

33. If an on-site burial was used at the well, report the exact location of the on-site burial:
Latitude ____________ Longitude ____________ NAD 1927 1983

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Kay Maddox Printed Name Kay Maddox Title Senior Regulatory Specialist Date 05/10/2022

E-mail Address kay_maddox@eogresources.com

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy Rustler 934'	T. Canyon Brushy 7486'	T. Ojo Alamo	T. Penn A"
T. Salt 1248'	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt 4655'	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T.Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T.Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T.Todilto	
T. Abo	T. 1st BS Sand 9983'	T. Entrada	
T. Wolfcamp	T. 2nd BS Sand 10,442'	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from……………….……..….to…………………………. No. 3, from………………………to……..……………………
No. 2, from……………………….to.………………………… No. 4, from………………………to………………………….

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from………………………………..to……………………………………feet……………………………………
No. 2, from………………………………..to……………………………………feet……………………………………
No. 3, from………………………………..to……………………………………feet……………………………………

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology		From	To	Thickness In Feet	Lithology

Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO. 30-025 - 47719
5. Indicate Type of Lease
STATE ☐ FEE ☐
6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: RUTHLESS 11 FEDERAL COM
1. Type of Well: Oil Well ☒ Gas Well ☐ Other
8. Well Number: 505 H
2. Name of Operator: EOG RESOURCES INC
9. OGRID Number: 7377
3. Address of Operator: PO BOX 2267 MIDLAND, TX 79702
10. Pool name or Wildcat: WC025 G08 S2533235G; LOWER BONE SPRING

4. Well Location
Unit Letter B : 564 feet from the NORTH line and 1978 feet from the EAST line
Section 11 Township 25S Range 32E NMPM County LEA

11. Elevation (*Show whether DR, RKB, RT, GR, etc.*)
3511' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		OTHER: CASING TEST ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

TOC IS BELOW THE CASING SHOE, ON 05/12/2023 A SUBSEQUENT PRESSURE TEST HELD.
EOG IS REQUESTING NO REMEDIAL CEMENT AT THIS TIME

Spud Date: 12/17/2021 Rig Release Date: 2/28/2022

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE KAY MADDOX TITLE SENIOR REGULATORY SPECIALIST DATE 05/23/2023

Type or print name Kay Maddox E-mail address: kay_maddox@eogresources.com PHONE: 432-638-8475

For State Use Only

APPROVED BY:______ TITLE______ DATE______
Conditions of Approval (if any):

Detailed Job Breakdown

TOPLINE PUMPING

JOB REPORT

COMPANY DETAILS

Company: EOG
Contact: MARK POPE
PHONE:

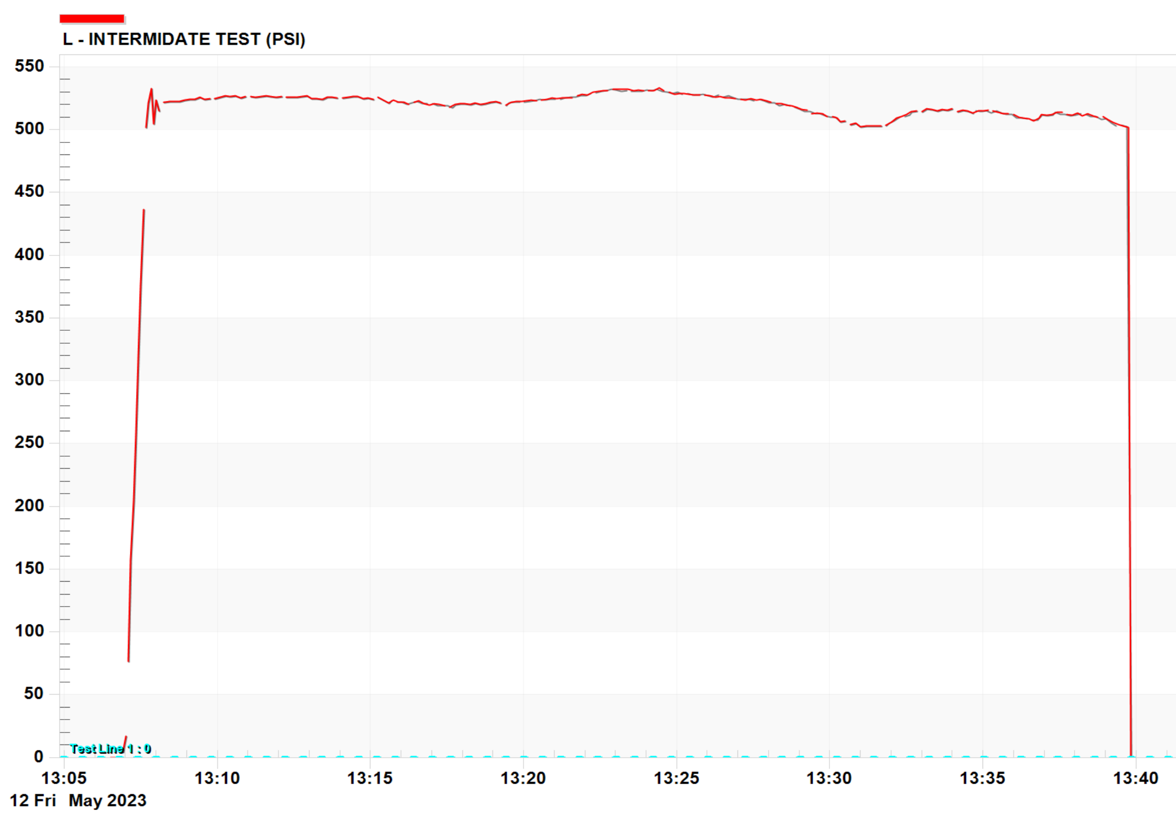
Email: Mark_pope@eogresources.com

JOB DETAILS

DATE 5/12/2023 1:06:28PM
START TIME 5/12/2023 1:06:28PM
END TIME 5/12/2023 1:39:51PM
Ticket#:
Other:
Other:

Operator:
WELL: RUTHLESS 11 FED COM 505H
Licence #:
Contractor:
AFE:

Comments:



13:06:25 Detailed Job Breakdown May/12/2023

Time	INTERMIDATE TEST (PSI)							
13:06 25.163	0							
13:06 30.164	0							
13:06 35.164	0							
13:06 40.164	0							
13:06 45.164	0							
13:06 50.164	0							
13:06 55.164	5							
13:07 0.163	17							
13:07 5.164	77							
13:07 10.164	157							
13:07 15.164	204							
13:07 20.164	258							
13:07 25.164	319							
13:07 30.164	376							
13:07 35.163	436							
13:07 40.164	502							
13:07 45.164	521							
13:07 50.164	533							
13:07 55.164	505							
13:08 0.164	524							
13:08 5.164	515							
13:08 10.163	517							
13:08 15.164	522							
13:08 20.164	521							
13:08 25.164	522							
13:08 30.164	522							
13:08 35.164	522							
13:08 40.164	523							
13:08 45.163	522							
13:08 50.164	524							
13:08 55.164	524							
13:09 0.164	524							
13:09 5.164	524							
13:09 10.164	524							
13:09 15.164	524							
13:09 20.164	524							
13:09 25.164	526							
13:09 30.164	525							
13:09 35.164	524							
13:09 40.164	525							
13:09 45.164	525							
13:09 50.164	526							
13:09 55.164	524							
13:10 0.164	525							
13:10 5.164	526							
13:10 10.164	525							
13:10 15.164	527							
13:10 20.164	526							

13:10:25 Detailed Job Breakdown May/12/2023

Time	INTERMIDATE TEST (PSI)							
13:10 25.164	527							
13:10 30.164	526							
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13:10 45.164	526							
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13:14:25 Detailed Job Breakdown May/12/2023

Time	INTERMIDAT E TEST (PSI)							
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13:14 30.164	525							
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13:15 20.164	525							
13:15 25.164	523							
13:15 30.164	524							
13:15 35.164	521							
13:15 40.164	524							
13:15 45.164	523							
13:15 50.164	522							
13:15 55.164	522							
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13:16 45.164	520							
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Time	INTERMIDATE TEST (PSI)							
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13:22 15.164	530							
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Time	INTERMIDATE TEST (PSI)							
13:22 25.164	531							
13:22 30.164	531							
13:22 35.164	531							
13:22 40.164	532							
13:22 45.164	531							
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13:22 55.164	532							
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Time	INTERMIDATE TEST (PSI)							
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13:29 30.164	513							
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13:29 55.164	510							
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13:30 10.164	510							
13:30 15.164	509							
13:30 20.164	506							

13:30:25 Detailed Job Breakdown May/12/2023

Time	INTERMIDATE TEST (PSI)							
13:30 25.164	507							
13:30 30.164	507							
13:30 35.164	506							
13:30 40.164	504							
13:30 45.164	503							
13:30 50.164	505							
13:30 55.164	503							
13:31 0.164	502							
13:31 5.164	504							
13:31 10.164	503							
13:31 15.164	502							
13:31 20.164	503							
13:31 25.164	503							
13:31 30.164	503							
13:31 35.164	504							
13:31 40.164	503							
13:31 45.164	503							
13:31 50.164	504							
13:31 55.164	506							
13:32 0.164	506							
13:32 5.164	507							
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13:32 30.164	512							
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Time	INTERMIDATE TEST (PSI)							
13:34 25.164	515							
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13:38 20.164	512							

Time	INTERMIDATE TEST (PSI)							
13:38 25.164	512							
13:38 30.164	511							
13:38 35.164	511							
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13:38 45.164	510							
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13:39 25.164	504							
13:39 30.164	504							
13:39 35.164	503							
13:39 40.164	503							
13:39 45.164	502							
13:39 50.164	1							

Well Name:	Ruthless 11 Fed Com #505H
Property Number:	76614
API Number:	30025477190000
Opening Intermediate PSI:	0 psi
Bled Intermediate PSI down to:	N/A
Fluid back to surface:	No
Bbls pumped to load casing:	.5 bbls
Bbls pumped to reach 500 psi:	1 bbls
Bbls bled back after test:	.75 bbls
Start	523 psi
30 min	509 psi
Bleed down, SICP:	0 psi

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

ACKNOWLEDGMENTS

Action 219876

ACKNOWLEDGMENTS

Operator:	
EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 219876
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☑	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☑	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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Phone:(575) 748-1283 Fax:(575) 748-9720
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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 219876

CONDITIONS

Operator:	
EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 219876
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
smcgrath	File 3160-4 within 10 days of BLM Approval	3/22/2024