

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

Submit one copy to appropriate District Office

Oil Conservation Division
1220 South St. Francis Dr.

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE MINERAL AUTHORIZATION TO TRANSPORT

¹ Operator name and Address EOG RESOURCES INC PO BOX 2267 MIDLAND, TEXAS 79702		² OGRID Number 7377	
		³ Reason for Filing Code/ Effective Date NW 04/20/2022	
⁴ API Number 30 - 025-47721	⁵ Pool Name WC025 G08 S253235G; LOWER BONE SPRING		⁶ Pool Code 97903
⁷ Property Code 329701	⁸ Property Name RUTHLESS 11 FEDERAL COM		⁹ Well Number 508H

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
A	11	25S	32E		951'	NORTH	739'	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
P	14	25S	32E		109'	SOUTH	779'	EAST	LEA
¹² Lse Code	¹³ Producing Method Code FLOWING	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

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 12/22/2021	²² Ready Date 04/20/2022	²³ TD 21,179'	²⁴ PBTD 21,179'	²⁵ Perforations 11,120 - 21,179'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/8"	1074'	1420 SXS CL C/CIRC		
12 1/4"	9 5/8"	4826'	1535 SXS CL C/CIRC		
8 3/4"	5 1/2"	21,162'	3590 SXS CL H/537' CBL		

V. Well Test Data

³¹ Date New Oil 04/20/2022	³² Gas Delivery Date 04/20/2022	³³ Test Date 04/26/2022	³⁴ Test Length 24 HRS	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 999
³⁷ Choke Size 80	³⁸ Oil 3815	³⁹ Water 9479	⁴⁰ Gas 6480		⁴¹ Test Method

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. Signature: Kay Maddox Printed name: Kay Maddox Title: SENIOR REGULATORY SPECIALIST E-mail Address: kay_maddox@eogresources.com Date: 05/10/2022	Phone: 432-638-8475	OIL CONSERVATION DIVISION	
	Approved by:		
	Title:		
	Approval Date:		

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- 47721	² Pool Code 97903	³ Pool Name WC025 G08 S253235G; LOWER BONE SPRING
⁴ Property Code 329701	⁵ Property Name RUTHLESS 11 FED COM	⁶ Well Number 508H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3516'

¹⁰Surface Location

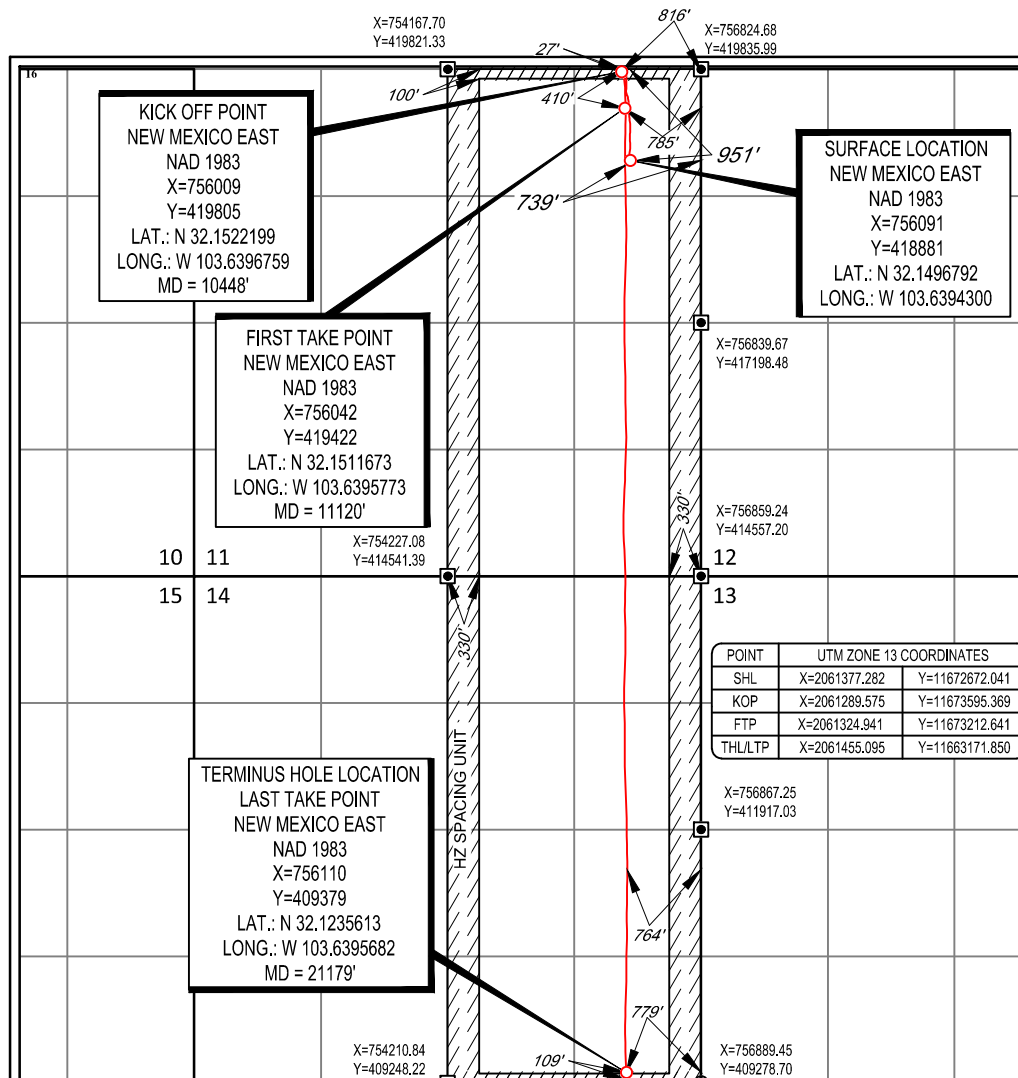
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	11	25-S	32-E	-	951'	NORTH	739'	EAST	LEA

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	-	109'	SOUTH	779'	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.

Kay Maddox 05/10/2022
Signature Date

KAY MADDOX

Printed Name

KAY_MADDOX@EOGRESOURCES.COM

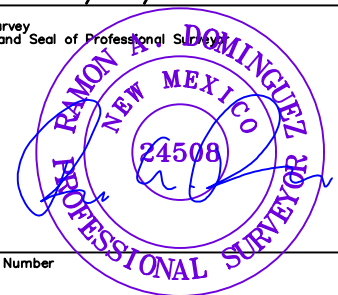
E-mail Address

¹⁸SURVEYOR CERTIFICATION

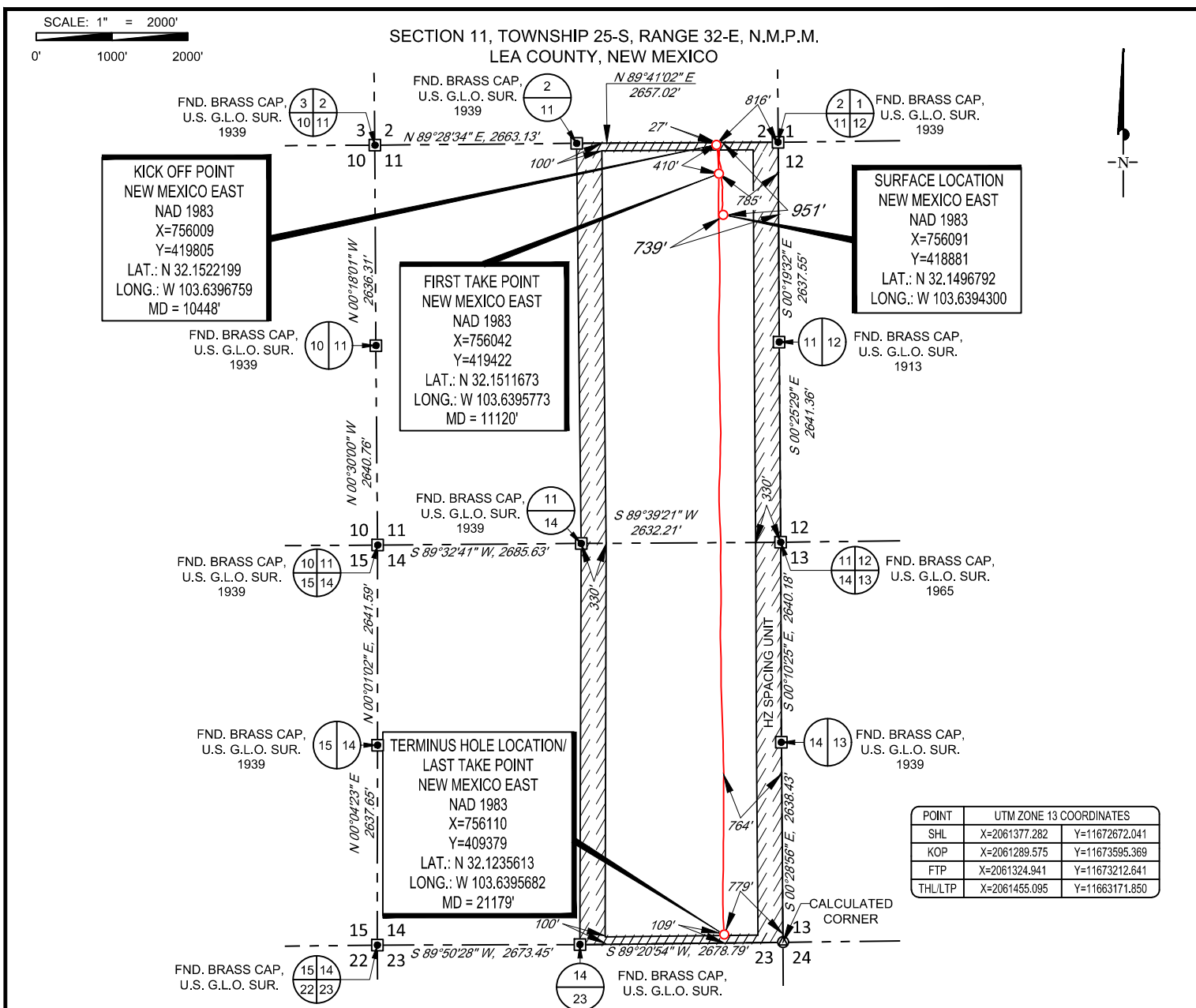
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

12/16/2021

Date of Survey
Signature and Seal of Professional Surveyor



Certificate Number



LEASE NAME & WELL NO.: RUTHLESS 11 FED COM 508H

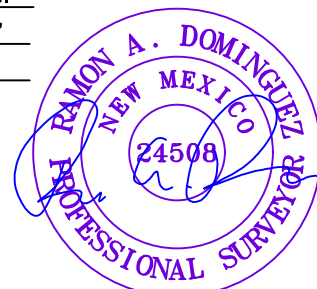
SECTION 11 TWP 25-S RGE 32-E SURVEY N.M.P.M.

COUNTY LEA STATE NM ELEVATION 3516'

DESCRIPTION 951' FNL & 739' FEL



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



Ramon A. Dominguez, P.S. No. 24508
APRIL 12, 2022



RUTHLESS FED COM 508H AS-DRILLED	REVISION:		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.
DATE: 04/12/2022			
FILE:AD_RUTHLESS_11_FED_COM_508H			
DRAWN BY: SAR			
SHEET : 2 OF 2			



Lea County, NM (NAD 83 NME)

Ruthless 11 Fed Com #508H

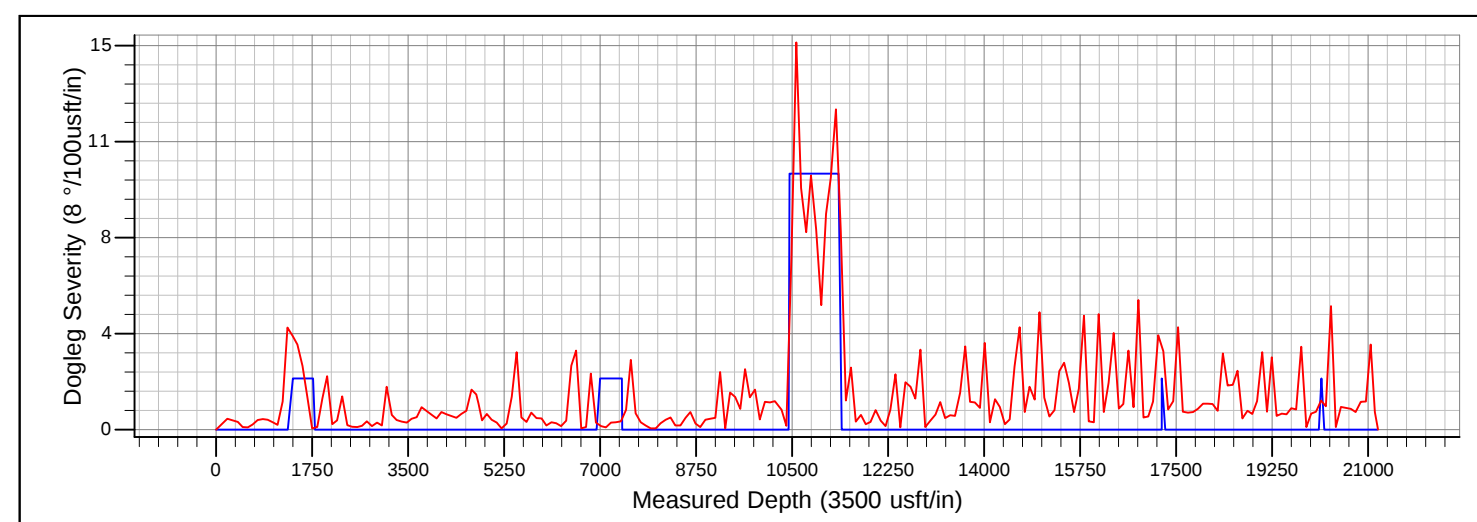
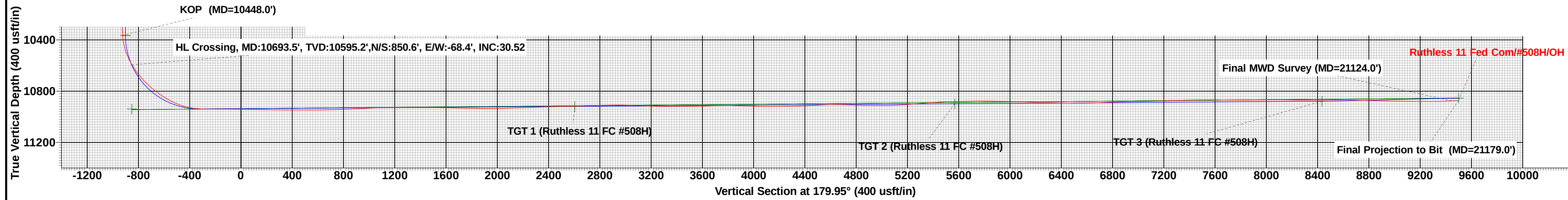
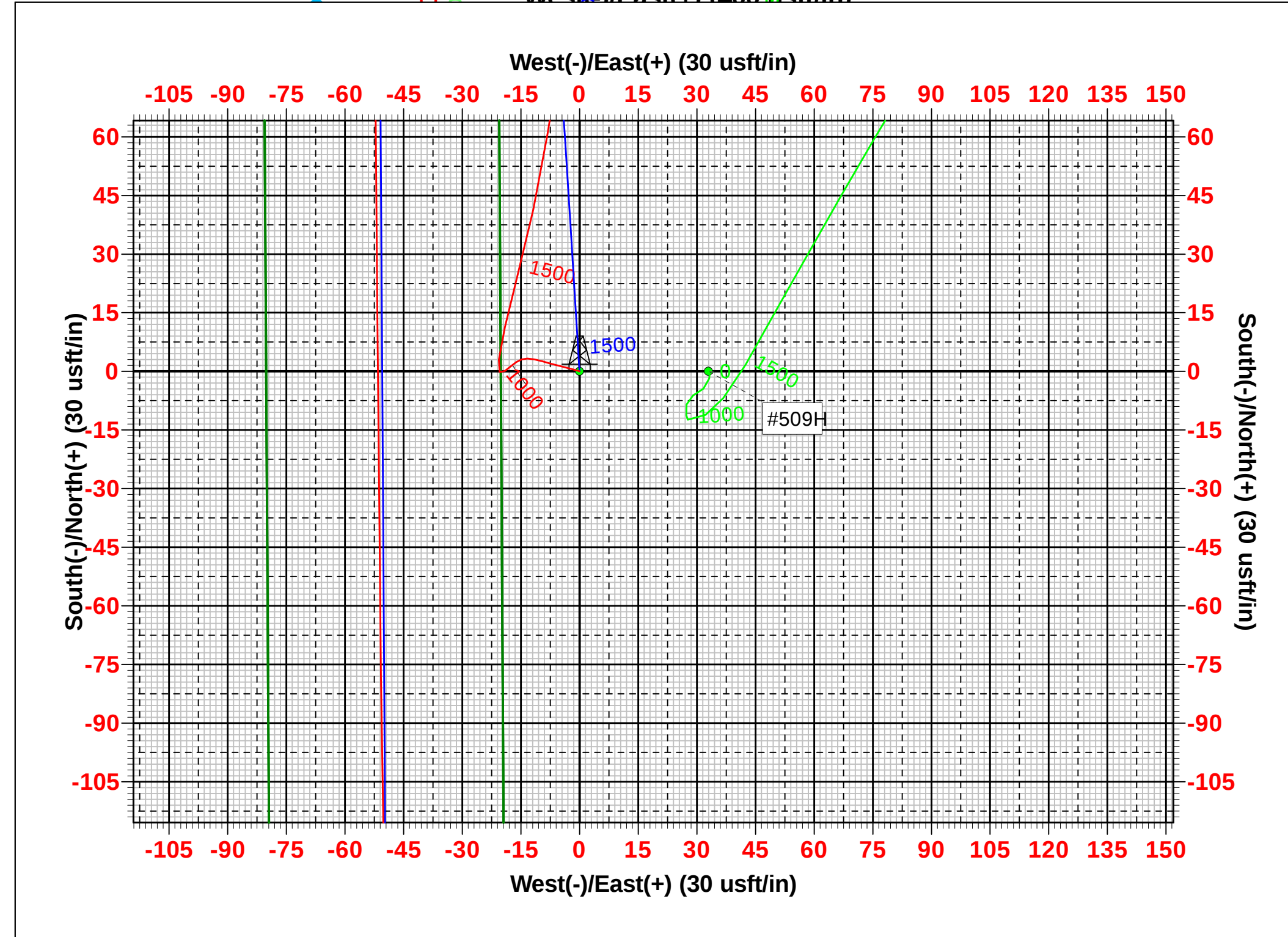
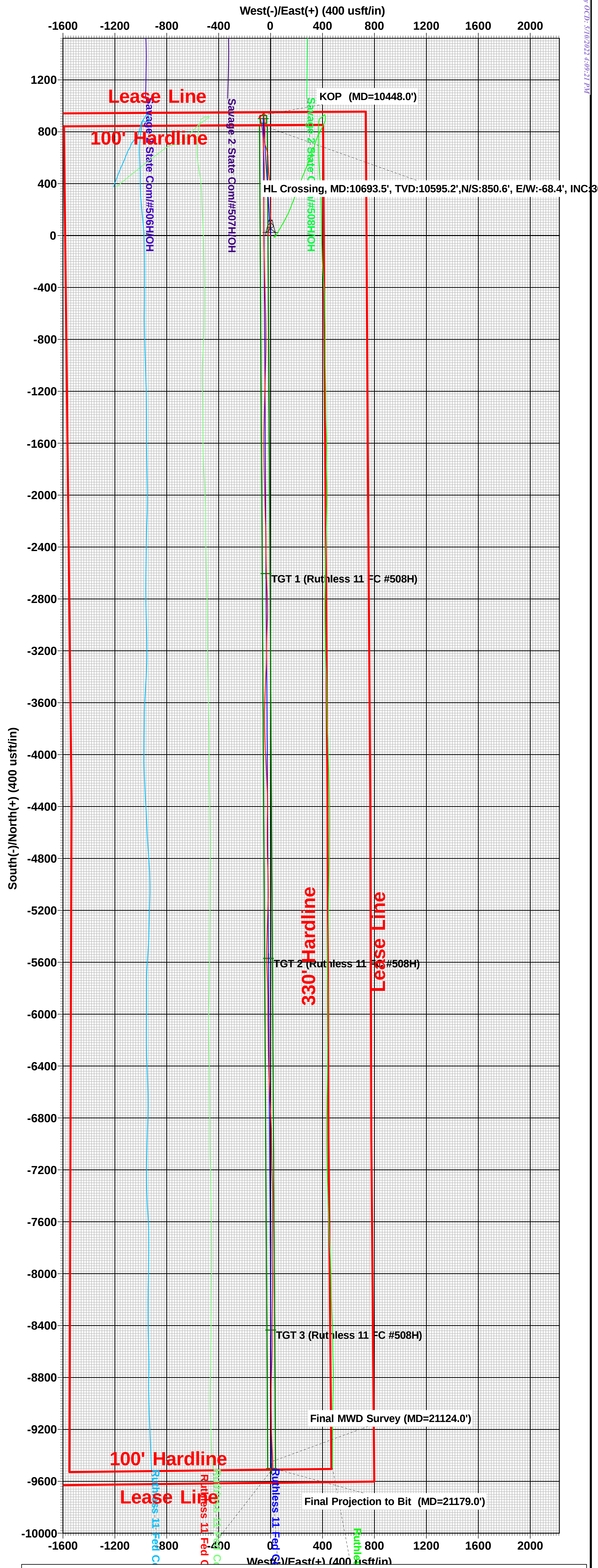
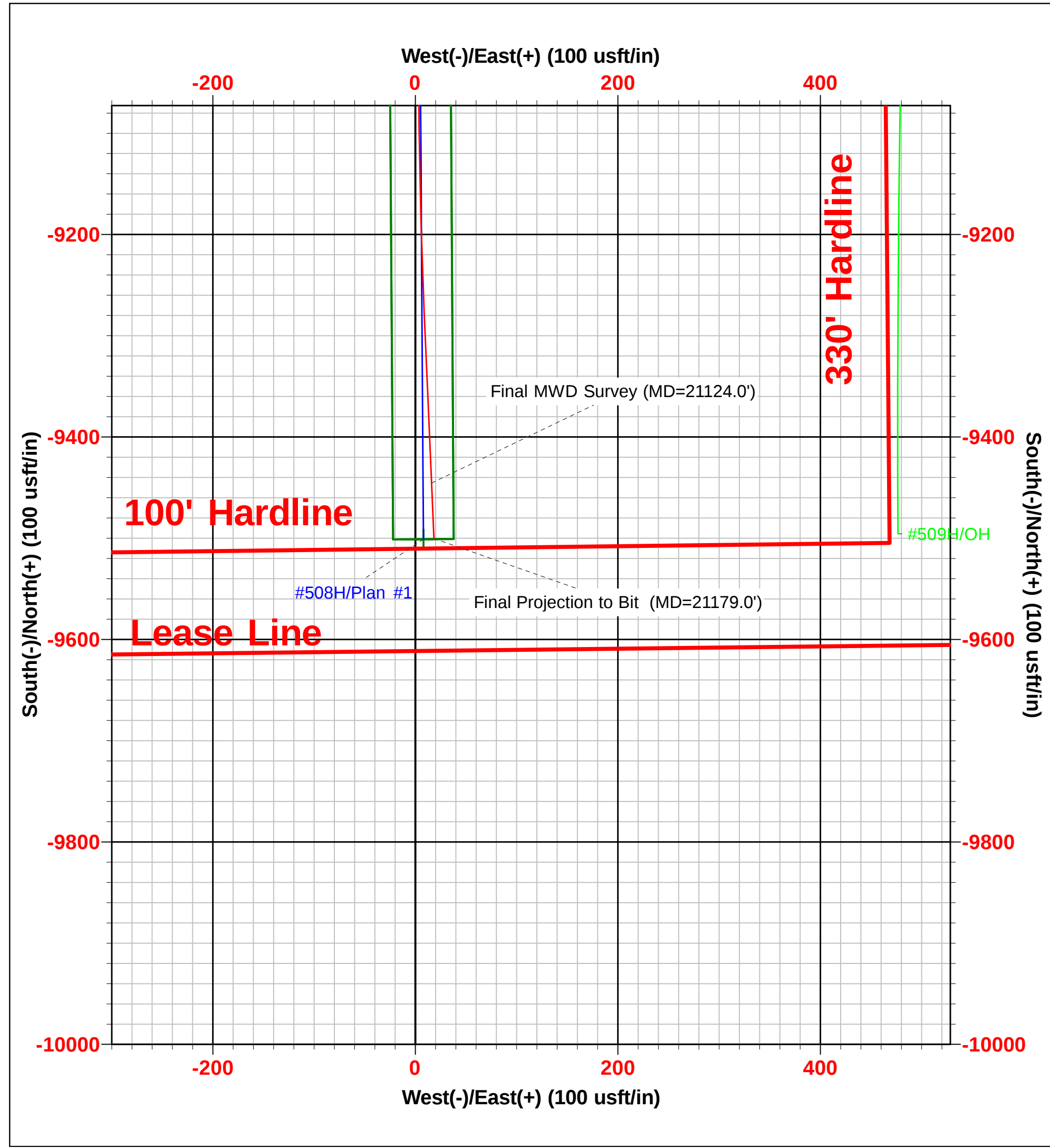
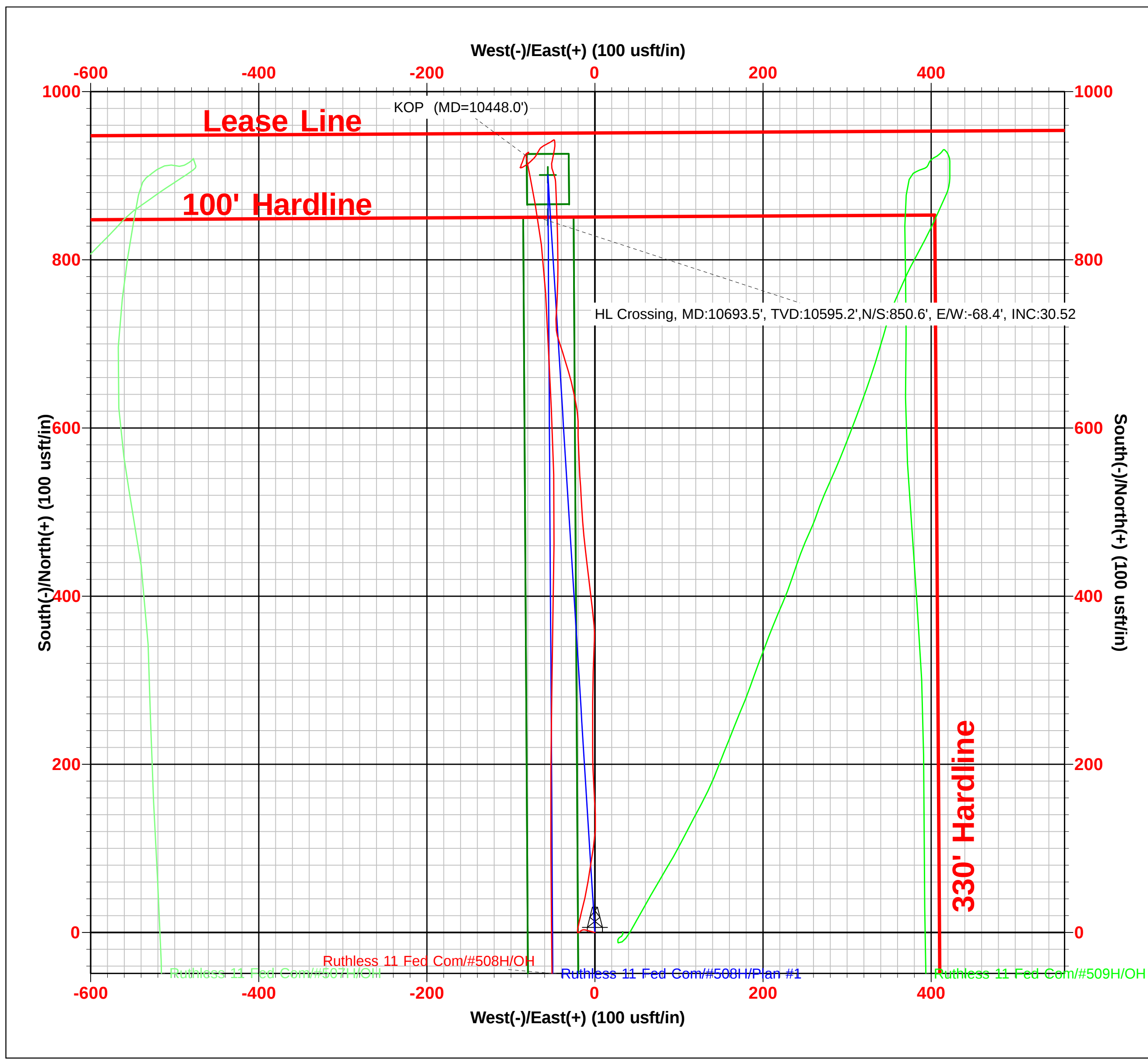
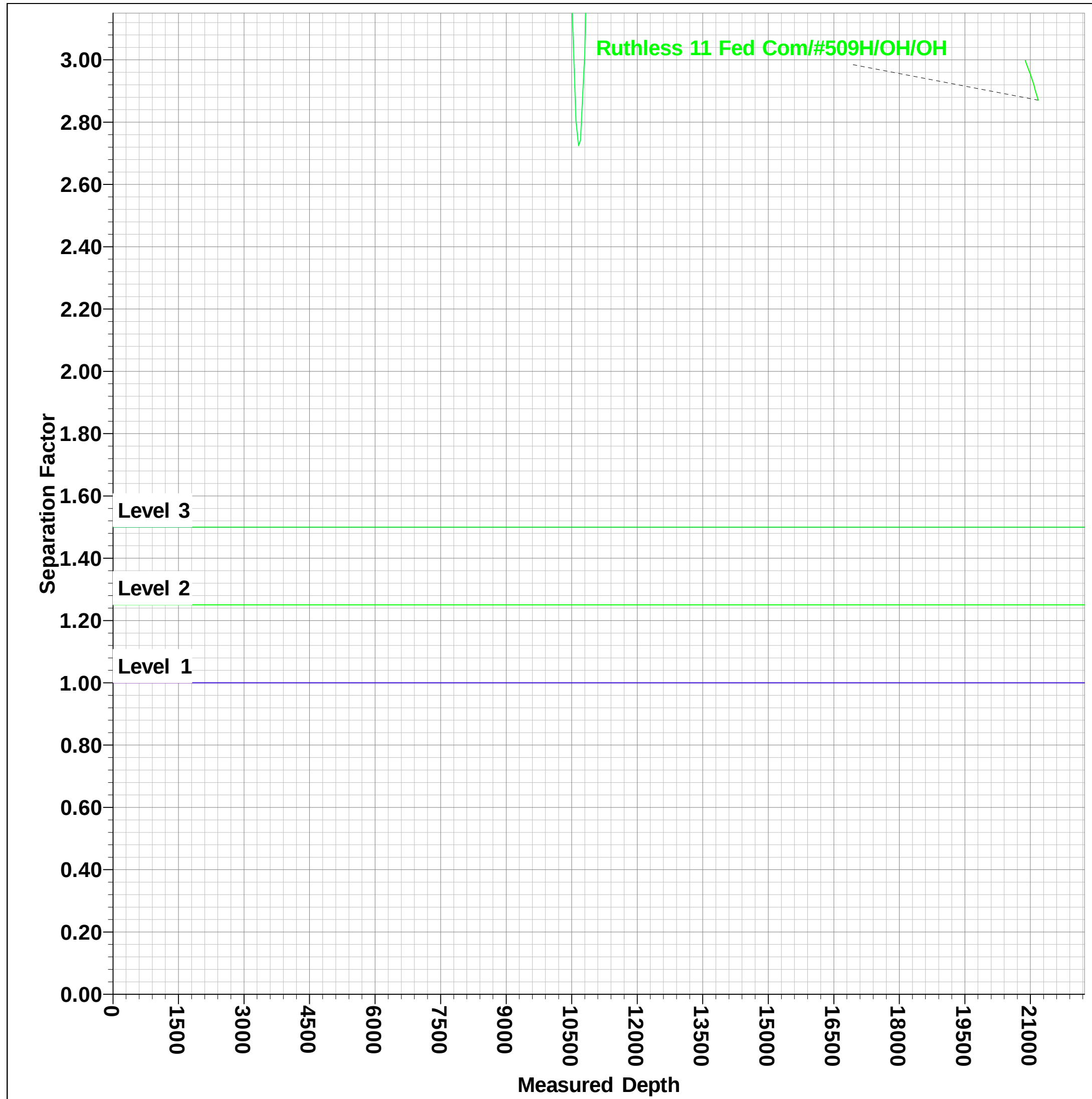
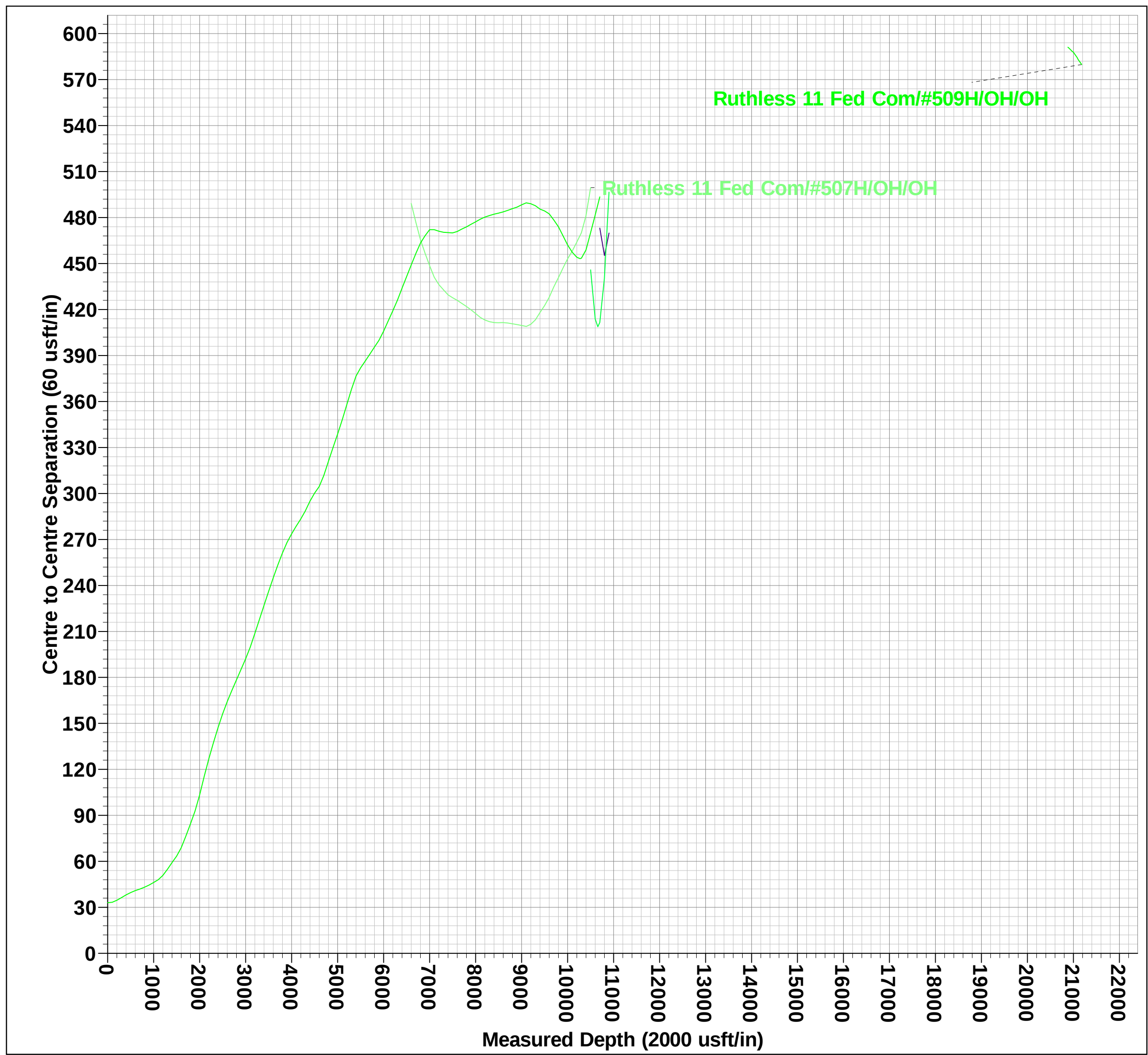
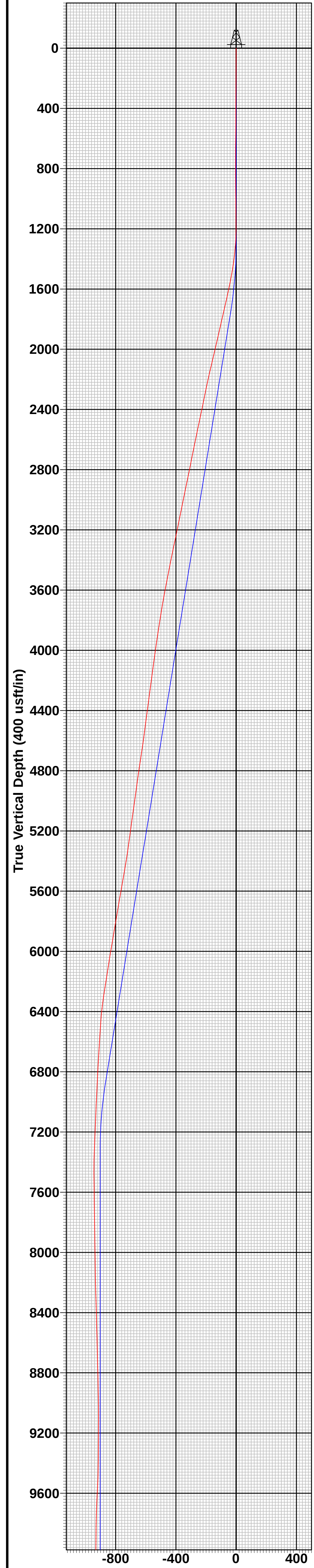
OH

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: #508H			
	KB = 25 @ 3541.0usft	3516.0	
Northing	Easting	Latitude	Longitude
418881.00	756091.00	32° 8' 58.848 N	103° 38' 21.952 W



To convert a Magnetic Direction to a Grid Direction, Add 6.13°
To convert a Magnetic Direction to a True Direction, Add 6.50° East
To convert a True Direction to a Grid Direction, Subtract 0.37°





Midland

Lea County, NM (NAD 83 NME)

Ruthless 11 Fed Com

#508H

OH

Design: OH

Final PVA

14 March, 2022



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #508H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3541.0usft
Site:	Ruthless 11 Fed Com	MD Reference:	KB = 25 @ 3541.0usft
Well:	#508H	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
From:	Map	Easting:	752,042.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 9' 1.687 N
		Longitude:	103° 39' 9.029 W
		Grid Convergence:	0.36 °

Well		#508H				
Well Position	+N/-S	0.0 usft	Northing:	418,881.00 usft	Latitude:	32° 8' 58.848 N
	+E/-W	0.0 usft	Easting:	756,091.00 usft	Longitude:	103° 38' 21.952 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,516.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/24/2022	6.50	59.80	47,378.86689030

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	179.95

Survey Program	Date	3/14/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200.0	21,179.0	Stryker MWD #1 (OH)	EOG MWD+IFR1	MWD + IFR1



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #508H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3541.0usft
Site:	Ruthless 11 Fed Com	MD Reference:	KB = 25 @ 3541.0usft
Well:	#508H	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	
200.0	0.84	285.97	200.0	0.4	-1.4	0.42	0.42	0.00	-1.5	0.0	
390.0	1.41	283.34	390.0	1.3	-5.0	0.30	0.30	-1.38	-5.2	-0.1	
481.0	1.45	287.03	480.9	1.9	-7.2	0.11	0.04	4.05	-7.5	0.3	
573.0	1.45	283.95	572.9	2.5	-9.5	0.08	0.00	-3.35	-9.8	-0.2	
664.0	1.27	282.28	663.9	3.0	-11.6	0.20	-0.20	-1.84	-11.9	-0.5	
755.0	1.01	271.03	754.9	3.3	-13.3	0.38	-0.29	-12.36	-13.4	-3.0	
846.0	0.84	249.85	845.8	3.0	-14.8	0.42	-0.19	-23.27	-12.8	-8.0	
937.0	1.14	239.48	936.8	2.4	-16.2	0.38	0.33	-11.40	-12.7	-10.3	
1,029.0	1.23	227.53	1,028.8	1.2	-17.7	0.29	0.10	-12.99	-12.2	-12.9	
1,118.0	1.14	234.64	1,117.8	0.1	-19.1	0.19	-0.10	7.99	-15.6	-11.1	
1,208.0	0.79	293.43	1,207.8	-0.2	-20.4	1.11	-0.39	65.32	-18.7	8.3	
1,298.0	3.74	6.74	1,297.7	3.0	-20.6	3.99	3.28	81.46	-0.5	20.9	
1,389.0	7.03	12.71	1,388.3	11.3	-19.1	3.66	3.62	6.56	-5.6	20.7	
1,479.0	10.02	14.47	1,477.3	24.3	-15.9	3.33	3.32	1.96	-14.3	19.8	
1,570.0	12.26	12.62	1,566.6	41.4	-11.8	2.49	2.46	-2.03	-25.7	17.1	
1,660.0	13.05	8.76	1,654.4	60.8	-8.2	1.29	0.88	-4.29	-37.0	12.6	
1,750.0	13.10	8.76	1,742.1	80.9	-5.1	0.06	0.06	0.00	-45.1	9.8	
1,840.0	13.10	9.20	1,829.7	101.0	-1.9	0.11	0.00	0.49	-51.5	7.0	
1,931.0	12.88	4.36	1,918.4	121.3	0.5	1.22	-0.24	-5.32	-58.0	-0.2	
2,022.0	13.10	355.92	2,007.1	141.7	0.6	2.10	0.24	-9.27	-63.2	-9.9	
2,113.0	13.10	356.80	2,095.7	162.3	-0.7	0.22	0.00	0.97	-69.5	-8.9	
2,204.0	12.79	357.42	2,184.4	182.7	-1.8	0.37	-0.34	0.68	-75.5	-8.3	
2,294.0	11.65	358.74	2,272.3	201.7	-2.4	1.30	-1.27	1.47	-80.4	-6.9	
2,385.0	11.69	359.53	2,361.5	220.1	-2.7	0.18	0.04	0.87	-84.4	-6.5	
2,476.0	11.74	359.97	2,450.6	238.6	-2.8	0.11	0.05	0.48	-88.5	-6.7	
2,566.0	11.65	0.06	2,538.7	256.8	-2.8	0.10	-0.10	0.10	-92.4	-7.4	



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #508H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3541.0usft
Site:	Ruthless 11 Fed Com	MD Reference:	KB = 25 @ 3541.0usft
Well:	#508H	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)	
2,656.0	11.52	0.32	2,626.9	274.9	-2.7	0.16	-0.14	0.29	-96.2	-7.9	
2,746.0	11.47	1.81	2,715.1	292.8	-2.4	0.33	-0.06	1.66	-100.0	-6.6	
2,836.0	11.47	1.20	2,803.3	310.7	-1.9	0.13	0.00	-0.68	-103.5	-8.9	
2,927.0	11.65	2.08	2,892.4	329.0	-1.4	0.28	0.20	0.97	-107.4	-8.7	
3,017.0	11.74	2.69	2,980.5	347.2	-0.6	0.17	0.10	0.68	-111.5	-9.0	
3,108.0	11.43	355.22	3,069.7	365.4	-0.9	1.68	-0.34	-8.21	-113.1	-24.1	
3,198.0	11.56	352.67	3,157.9	383.2	-2.8	0.58	0.14	-2.83	-115.5	-28.5	
3,289.0	11.87	353.38	3,247.0	401.6	-5.1	0.38	0.34	0.78	-119.8	-26.2	
3,379.0	11.60	353.02	3,335.1	419.8	-7.3	0.31	-0.30	-0.40	-123.6	-26.2	
3,470.0	11.38	353.64	3,424.3	437.8	-9.4	0.28	-0.24	0.68	-127.5	-24.0	
3,561.0	10.99	353.73	3,513.6	455.3	-11.3	0.43	-0.43	0.10	-130.7	-23.1	
3,652.0	10.55	354.08	3,603.0	472.2	-13.1	0.49	-0.48	0.38	-133.3	-21.7	
3,742.0	9.80	355.40	3,691.5	488.1	-14.6	0.87	-0.83	1.47	-135.3	-18.2	
3,833.0	9.19	356.98	3,781.3	503.0	-15.6	0.73	-0.67	1.74	-136.2	-14.4	
3,924.0	8.66	356.80	3,871.2	517.1	-16.3	0.58	-0.58	-0.20	-135.6	-14.9	
4,014.0	8.26	356.80	3,960.2	530.3	-17.1	0.44	-0.44	0.00	-134.4	-15.0	
4,105.0	7.65	355.57	4,050.3	542.9	-17.9	0.70	-0.67	-1.35	-132.1	-17.8	
4,196.0	7.21	358.12	4,140.6	554.7	-18.6	0.60	-0.48	2.80	-129.9	-12.1	
4,377.0	8.04	357.24	4,320.0	578.7	-19.5	0.46	0.46	-0.49	-124.7	-14.7	
4,468.0	7.52	358.74	4,410.1	591.0	-20.0	0.61	-0.57	1.65	-122.7	-11.9	
4,558.0	6.99	1.99	4,499.4	602.3	-19.9	0.74	-0.59	3.61	-120.2	-6.0	
4,649.0	7.96	353.90	4,589.6	614.1	-20.4	1.57	1.07	-8.89	-115.4	-22.8	
4,739.0	9.05	349.95	4,678.7	627.3	-22.3	1.37	1.21	-4.39	-112.5	-29.4	
4,781.0	8.70	348.37	4,720.2	633.7	-23.5	1.02	-0.83	-3.76	-111.5	-31.6	
4,841.0	8.48	348.37	4,779.5	642.4	-25.3	0.37	-0.37	0.00	-110.9	-30.2	
4,932.0	8.09	345.64	4,869.5	655.2	-28.3	0.61	-0.43	-3.00	-108.1	-33.0	
5,022.0	7.87	343.71	4,958.7	667.3	-31.6	0.39	-0.24	-2.14	-105.4	-33.6	



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #508H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3541.0usft
Site:	Ruthless 11 Fed Com	MD Reference:	KB = 25 @ 3541.0usft
Well:	#508H	North Reference:	Grid
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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)
5,112.0	8.09	342.92	5,047.8	679.2	-35.2	0.27	0.24	-0.88	-103.4	-31.8
5,203.0	8.13	342.83	5,137.9	691.5	-38.9	0.05	0.04	-0.10	-101.9	-28.5
5,293.0	8.04	341.42	5,227.0	703.5	-42.8	0.24	-0.10	-1.57	-99.9	-27.4
5,384.0	8.13	349.77	5,317.1	715.9	-46.0	1.29	0.10	9.18	-101.1	-10.2
5,474.0	9.58	4.89	5,406.0	729.6	-46.5	3.03	1.61	16.80	-99.6	15.7
5,565.0	9.85	2.87	5,495.7	745.0	-45.4	0.48	0.30	-2.22	-101.0	10.4
5,655.0	10.11	2.34	5,584.3	760.5	-44.7	0.31	0.29	-0.59	-102.4	7.9
5,746.0	9.54	1.11	5,674.0	776.1	-44.3	0.67	-0.63	-1.35	-103.5	4.4
5,836.0	9.93	0.41	5,762.7	791.3	-44.1	0.45	0.43	-0.78	-104.4	2.0
5,927.0	9.58	359.26	5,852.4	806.7	-44.1	0.44	-0.38	-1.26	-105.3	-0.9
6,017.0	9.45	358.91	5,941.2	821.6	-44.3	0.16	-0.14	-0.39	-105.8	-2.2
6,108.0	9.19	358.47	6,031.0	836.3	-44.7	0.30	-0.29	-0.48	-105.9	-3.6
6,199.0	8.97	358.03	6,120.8	850.6	-45.1	0.25	-0.24	-0.48	-105.7	-4.9
6,289.0	8.88	357.51	6,209.7	864.6	-45.7	0.13	-0.10	-0.58	-105.1	-6.1
6,379.0	8.57	357.86	6,298.7	878.2	-46.2	0.35	-0.34	0.39	-104.4	-5.8
6,470.0	6.29	357.51	6,388.9	890.0	-46.7	2.51	-2.51	-0.38	-101.5	-6.8
6,560.0	3.78	343.44	6,478.6	897.8	-47.7	3.09	-2.79	-15.63	-90.6	-29.0
6,651.0	3.74	343.09	6,569.4	903.5	-49.5	0.05	-0.04	-0.38	-82.1	-26.2
6,741.0	3.82	342.48	6,659.2	909.2	-51.2	0.10	0.09	-0.68	-73.7	-23.6
6,830.0	3.08	12.89	6,748.0	914.3	-51.6	2.18	-0.83	34.17	-66.8	14.1
6,923.0	2.86	10.43	6,840.9	919.0	-50.6	0.27	-0.24	-2.65	-57.7	7.5
7,013.0	2.73	10.69	6,930.8	923.3	-49.8	0.15	-0.14	0.29	-49.0	4.5
7,104.0	2.68	12.18	7,021.7	927.6	-48.9	0.09	-0.05	1.64	-42.6	2.9
7,195.0	2.46	9.72	7,112.6	931.6	-48.2	0.27	-0.24	-2.70	-38.9	-0.8
7,285.0	2.29	4.80	7,202.5	935.3	-47.7	0.29	-0.19	-5.47	-37.3	-5.1
7,376.0	2.24	357.16	7,293.5	938.8	-47.6	0.34	-0.05	-8.40	-37.5	-10.2
7,466.0	1.67	344.85	7,383.4	941.9	-48.1	0.78	-0.63	-13.68	-37.4	-18.4



Final PVA

Company: Midland
Project: Lea County, NM (NAD 83 NME)
Site: Ruthless 11 Fed Com
Well: #508H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #508H
TVD Reference: KB = 25 @ 3541.0usft
MD Reference: KB = 25 @ 3541.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
7,556.0	1.32	235.16	7,473.4	942.5	-49.2	2.73	-0.39	-121.88	29.3	-30.2
7,647.0	1.89	238.94	7,564.3	941.2	-51.4	0.64	0.63	4.15	24.7	-32.0
7,738.0	1.63	237.27	7,655.3	939.7	-53.8	0.29	-0.29	-1.84	22.8	-31.3
7,828.0	1.71	241.49	7,745.3	938.4	-56.0	0.16	0.09	4.69	17.8	-32.8
7,919.0	1.67	242.37	7,836.2	937.1	-58.4	0.05	-0.04	0.97	14.6	-33.1
8,009.0	1.71	241.67	7,926.2	935.8	-60.7	0.05	0.04	-0.78	12.4	-32.9
8,100.0	1.63	234.46	8,017.1	934.5	-63.0	0.25	-0.09	-7.92	13.8	-31.3
8,191.0	1.41	223.91	8,108.1	932.9	-64.8	0.39	-0.24	-11.59	16.9	-28.5
8,281.0	1.63	210.03	8,198.1	931.0	-66.2	0.47	0.24	-15.42	20.8	-23.9
8,372.0	1.76	207.83	8,289.0	928.6	-67.5	0.16	0.14	-2.42	19.0	-23.1
8,463.0	1.71	212.40	8,380.0	926.2	-68.9	0.16	-0.05	5.02	14.4	-24.4
8,553.0	2.11	208.18	8,470.0	923.7	-70.4	0.47	0.44	-4.69	13.2	-23.4
8,643.0	2.02	225.23	8,559.9	921.1	-72.3	0.69	-0.10	18.94	2.6	-25.7
8,734.0	2.24	225.85	8,650.8	918.7	-74.7	0.24	0.24	0.68	-1.1	-25.8
8,824.0	2.33	226.20	8,740.8	916.2	-77.3	0.10	0.10	0.39	-4.8	-25.7
8,915.0	2.24	234.81	8,831.7	913.9	-80.1	0.39	-0.10	9.46	-12.2	-24.4
9,005.0	2.59	238.85	8,921.6	911.8	-83.3	0.43	0.39	4.49	-17.7	-23.4
9,096.0	2.20	242.81	9,012.5	910.0	-86.6	0.47	-0.43	4.35	-23.1	-22.0
9,186.0	0.44	304.16	9,102.5	909.4	-88.4	2.25	-1.96	68.17	-31.5	11.3
9,277.0	0.48	305.56	9,193.5	909.8	-89.0	0.05	0.04	1.54	-32.0	12.0
9,368.0	1.01	66.76	9,284.5	910.3	-88.6	1.45	0.58	133.19	26.3	21.4
9,458.0	0.70	344.50	9,374.5	911.2	-88.0	1.28	-0.34	-91.40	-18.4	28.1
9,549.0	1.27	13.24	9,465.5	912.7	-87.9	0.81	0.63	31.58	-4.1	33.8
9,639.0	3.34	27.48	9,555.4	916.0	-86.5	2.37	2.30	15.82	0.8	34.0
9,730.0	2.77	8.58	9,646.3	920.5	-84.9	1.26	-0.63	-20.77	-15.0	31.5
9,821.0	2.07	38.55	9,737.2	924.0	-83.6	1.56	-0.77	32.93	-0.8	35.9
9,911.0	1.85	46.81	9,827.1	926.3	-81.5	0.40	-0.24	9.18	1.3	35.9



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #508H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3541.0usft
Site:	Ruthless 11 Fed Com	MD Reference:	KB = 25 @ 3541.0usft
Well:	#508H	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)
10,001.0	1.05	70.37	9,917.1	927.5	-79.7	1.09	-0.89	26.18	13.4	32.9
10,092.0	0.09	86.36	10,008.1	927.8	-78.8	1.06	-1.05	17.57	21.1	28.2
10,183.0	0.97	203.52	10,099.1	927.1	-79.0	1.11	0.97	128.75	14.7	-31.6
10,303.0	0.92	262.67	10,219.1	926.1	-80.4	0.78	-0.04	49.29	-21.0	-28.0
10,393.0	0.92	254.15	10,309.1	925.8	-81.8	0.15	0.00	-9.47	-18.1	-30.9
10,448.0	3.79	174.13	10,364.0	923.8	-82.1	6.81	5.22	-145.49	25.4	-23.6
KOP (MD=10448.0')										
10,484.0	6.20	168.63	10,399.9	920.7	-81.6	6.81	6.69	-15.28	25.3	-21.0
10,574.0	19.82	168.72	10,487.4	900.9	-77.6	15.13	15.13	0.10	16.4	-19.0
10,664.0	28.31	169.77	10,569.5	864.9	-70.8	9.44	9.43	1.17	3.5	-14.7
10,693.5	30.52	170.87	10,595.2	850.6	-68.4	7.72	7.50	3.73	-0.6	-12.9
HL Crossing, MD:10693.5', TVD:10595.2', N/S:850.6', E/W:-68.4', INC:30.52										
10,755.0	35.16	172.76	10,646.8	817.6	-63.7	7.72	7.54	3.07	-7.6	-9.0
10,845.0	43.69	176.98	10,716.3	760.7	-58.8	9.93	9.48	4.69	-16.1	-4.2
10,935.0	50.73	177.24	10,777.4	694.8	-55.4	7.83	7.82	0.29	-21.8	-1.3
11,026.0	55.16	177.07	10,832.2	622.3	-51.8	4.87	4.87	-0.19	-21.7	1.9
11,117.0	62.68	178.83	10,879.2	544.5	-49.1	8.43	8.26	1.93	-16.1	4.6
11,207.0	71.38	180.67	10,914.3	461.7	-48.8	9.85	9.67	2.04	-8.6	4.6
11,298.0	82.77	180.93	10,934.6	373.2	-50.0	12.52	12.52	0.29	-2.6	2.8
11,388.0	89.76	180.76	10,940.4	283.4	-51.3	7.77	7.77	-0.19	1.8	0.9
11,478.0	90.77	180.58	10,940.0	193.4	-52.4	1.14	1.12	-0.20	2.0	-0.7
11,569.0	88.88	179.44	10,940.3	102.4	-52.4	2.43	-2.08	-1.25	2.9	-1.3
11,659.0	89.01	179.69	10,942.0	12.4	-51.7	0.31	0.14	0.28	5.1	-1.2
11,750.0	89.05	179.17	10,943.5	-78.5	-50.8	0.57	0.04	-0.57	7.3	-0.8
11,840.0	89.14	178.99	10,944.9	-168.5	-49.4	0.22	0.10	-0.20	9.3	0.1
11,930.0	89.05	178.73	10,946.3	-258.5	-47.6	0.31	-0.10	-0.29	11.4	1.3
12,021.0	89.58	178.29	10,947.4	-349.4	-45.2	0.76	0.58	-0.48	13.1	3.1



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #508H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3541.0usft
Site:	Ruthless 11 Fed Com	MD Reference:	KB = 25 @ 3541.0usft
Well:	#508H	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)
12,112.0	89.89	178.38	10,947.9	-440.4	-42.6	0.35	0.34	0.10	14.1	5.2
12,202.0	89.98	178.29	10,948.0	-530.4	-40.0	0.14	0.10	-0.10	14.8	7.3
12,292.0	90.68	178.29	10,947.4	-620.3	-37.3	0.78	0.78	0.00	14.9	9.4
12,382.0	92.04	179.69	10,945.3	-710.3	-35.7	2.17	1.51	1.56	13.4	10.4
12,473.0	92.04	179.61	10,942.1	-801.2	-35.1	0.09	0.00	-0.09	10.8	10.4
12,564.0	92.26	181.28	10,938.6	-892.2	-35.8	1.85	0.24	1.84	8.0	9.2
12,655.0	93.76	181.54	10,933.9	-983.0	-38.1	1.67	1.65	0.29	3.8	6.4
12,746.0	92.66	181.63	10,928.8	-1,073.8	-40.6	1.21	-1.21	0.10	-0.7	3.3
12,836.0	89.85	181.54	10,926.8	-1,163.8	-43.1	3.12	-3.12	-0.10	-2.0	0.2
12,928.0	89.89	181.63	10,927.0	-1,255.7	-45.6	0.11	0.04	0.10	-1.2	-2.9
13,018.0	89.58	181.54	10,927.4	-1,345.7	-48.1	0.36	-0.34	-0.10	-0.2	-5.9
13,108.0	89.63	181.01	10,928.0	-1,435.7	-50.1	0.59	0.06	-0.59	1.1	-8.5
13,199.0	89.45	180.05	10,928.8	-1,526.7	-50.9	1.07	-0.20	-1.05	2.4	-9.9
13,289.0	89.05	179.96	10,930.0	-1,616.6	-51.0	0.46	-0.44	-0.10	4.2	-10.4
13,379.0	88.79	179.52	10,931.7	-1,706.6	-50.5	0.57	-0.29	-0.49	6.5	-10.6
13,470.0	89.14	179.17	10,933.3	-1,797.6	-49.5	0.54	0.38	-0.38	8.8	-10.1
13,560.0	88.40	178.11	10,935.2	-1,887.6	-47.4	1.44	-0.82	-1.18	11.3	-8.5
13,651.0	91.16	179.17	10,935.6	-1,978.5	-45.2	3.25	3.03	1.16	12.3	-6.9
13,741.0	92.04	178.73	10,933.1	-2,068.5	-43.6	1.09	0.98	-0.49	10.4	-5.8
13,832.0	91.65	177.85	10,930.1	-2,159.4	-40.8	1.06	-0.43	-0.97	8.1	-3.7
13,922.0	91.96	177.15	10,927.3	-2,249.2	-36.9	0.85	0.34	-0.78	5.9	-0.3
14,013.0	91.60	180.22	10,924.5	-2,340.2	-34.8	3.40	-0.40	3.37	3.7	1.3
14,104.0	91.56	179.96	10,922.0	-2,431.1	-35.0	0.29	-0.04	-0.29	1.8	0.5
14,194.0	91.43	178.90	10,919.6	-2,521.1	-34.1	1.19	-0.14	-1.18	0.0	0.9
14,285.0	91.60	178.11	10,917.2	-2,612.0	-31.7	0.89	0.19	-0.87	-1.7	2.7
14,375.0	91.78	178.02	10,914.6	-2,701.9	-28.7	0.22	0.20	-0.10	-3.8	5.2
14,466.0	91.87	177.67	10,911.7	-2,792.8	-25.3	0.40	0.10	-0.38	-6.1	8.1



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #508H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3541.0usft
Site:	Ruthless 11 Fed Com	MD Reference:	KB = 25 @ 3541.0usft
Well:	#508H	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)	
14,556.0	91.60	179.87	10,908.9	-2,882.8	-23.3	2.46	-0.30	2.44	-8.2	9.4	
14,646.0	88.88	182.24	10,908.6	-2,972.7	-25.0	4.01	-3.02	2.63	-7.9	7.2	
14,737.0	88.26	182.15	10,910.8	-3,063.6	-28.5	0.69	-0.68	-0.10	-5.1	3.2	
14,828.0	87.65	180.75	10,914.1	-3,154.6	-30.8	1.68	-0.67	-1.54	-1.2	0.3	
14,918.0	86.86	180.05	10,918.4	-3,244.4	-31.4	1.17	-0.88	-0.78	3.7	-0.9	
15,008.0	90.11	182.59	10,920.8	-3,334.4	-33.5	4.58	3.61	2.82	6.7	-3.5	
15,099.0	91.25	182.68	10,919.7	-3,425.3	-37.7	1.26	1.25	0.10	6.3	-8.2	
15,189.0	90.86	182.42	10,918.0	-3,515.2	-41.7	0.52	-0.43	-0.29	5.2	-12.8	
15,278.0	91.52	182.24	10,916.2	-3,604.1	-45.3	0.77	0.74	-0.20	4.0	-16.9	
15,367.0	91.82	180.22	10,913.6	-3,693.0	-47.2	2.29	0.34	-2.27	2.0	-19.4	
15,457.0	89.76	179.08	10,912.3	-3,783.0	-46.6	2.62	-2.29	-1.27	1.4	-19.4	
15,547.0	88.66	177.85	10,913.6	-3,872.9	-44.2	1.83	-1.22	-1.37	3.2	-17.5	
15,637.0	88.35	177.32	10,915.9	-3,962.8	-40.4	0.68	-0.34	-0.59	6.2	-14.3	
15,726.0	87.38	176.27	10,919.2	-4,051.6	-35.5	1.61	-1.09	-1.18	10.1	-9.9	
15,817.0	91.03	178.02	10,920.5	-4,142.5	-30.9	4.45	4.01	1.92	12.0	-5.9	
15,907.0	91.16	177.76	10,918.8	-4,232.4	-27.6	0.32	0.14	-0.29	10.9	-3.2	
15,997.0	90.90	177.76	10,917.2	-4,322.3	-24.1	0.29	-0.29	0.00	9.9	-0.2	
16,088.0	93.01	181.28	10,914.1	-4,413.3	-23.3	4.51	2.32	3.87	7.4	0.0	
16,179.0	92.97	180.66	10,909.3	-4,504.1	-24.9	0.68	-0.04	-0.68	3.2	-2.1	
16,270.0	91.34	181.01	10,905.9	-4,595.0	-26.2	1.83	-1.79	0.38	0.4	-4.0	
16,361.0	88.44	179.17	10,906.1	-4,686.0	-26.3	3.77	-3.19	-2.02	1.2	-4.7	
16,451.0	88.22	178.46	10,908.7	-4,776.0	-24.5	0.83	-0.24	-0.79	4.5	-3.4	
16,541.0	88.44	177.58	10,911.3	-4,865.9	-21.4	1.01	0.24	-0.98	7.7	-0.8	
16,631.0	90.15	179.78	10,912.4	-4,955.8	-19.3	3.10	1.90	2.44	9.4	0.7	
16,721.0	90.15	178.99	10,912.2	-5,045.8	-18.3	0.88	0.00	-0.88	9.8	1.1	
16,811.0	93.80	181.72	10,909.1	-5,135.7	-18.9	5.06	4.06	3.03	7.3	0.0	
16,902.0	94.15	181.98	10,902.8	-5,226.5	-21.8	0.48	0.38	0.29	1.6	-3.5	



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #508H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3541.0usft
Site:	Ruthless 11 Fed Com	MD Reference:	KB = 25 @ 3541.0usft
Well:	#508H	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)
16,993.0	94.46	181.63	10,895.9	-5,317.2	-24.7	0.51	0.34	-0.38	-4.6	-6.9
17,083.0	95.30	181.10	10,888.3	-5,406.8	-26.8	1.10	0.93	-0.59	-11.6	-9.6
17,173.0	92.00	181.45	10,882.6	-5,496.6	-28.8	3.69	-3.67	0.39	-16.7	-12.1
17,264.0	91.08	178.82	10,880.1	-5,587.6	-29.0	3.06	-1.01	-2.89	-18.8	-12.9
17,354.0	90.73	178.20	10,878.7	-5,677.5	-26.7	0.79	-0.39	-0.69	-19.6	-11.1
17,445.0	91.25	177.32	10,877.1	-5,768.4	-23.1	1.12	0.57	-0.97	-20.5	-8.1
17,535.0	88.62	179.78	10,877.2	-5,858.4	-20.9	4.00	-2.92	2.73	-19.8	-6.4
17,625.0	88.09	180.13	10,879.8	-5,948.4	-20.8	0.71	-0.59	0.39	-16.5	-6.9
17,716.0	88.13	179.52	10,882.8	-6,039.3	-20.5	0.67	0.04	-0.67	-12.9	-7.1
17,806.0	87.82	178.99	10,886.0	-6,129.2	-19.3	0.68	-0.34	-0.59	-9.1	-6.5
17,897.0	88.48	179.34	10,888.9	-6,220.2	-18.0	0.82	0.73	0.38	-5.5	-5.8
17,987.0	89.23	178.82	10,890.7	-6,310.2	-16.6	1.01	0.83	-0.58	-3.1	-4.9
18,077.0	88.79	178.02	10,892.3	-6,400.1	-14.1	1.01	-0.49	-0.89	-0.9	-2.9
18,168.0	89.71	178.02	10,893.5	-6,491.0	-10.9	1.01	1.01	0.00	0.9	-0.3
18,258.0	89.98	177.41	10,893.7	-6,581.0	-7.4	0.74	0.30	-0.68	1.8	2.7
18,349.0	92.62	178.02	10,891.7	-6,671.9	-3.7	2.98	2.90	0.67	0.4	5.8
18,439.0	92.18	176.53	10,887.9	-6,761.7	0.6	1.72	-0.49	-1.66	-2.8	9.5
18,530.0	92.40	178.11	10,884.2	-6,852.5	4.8	1.75	0.24	1.74	-5.8	13.2
18,621.0	90.59	179.17	10,881.9	-6,943.4	7.0	2.30	-1.99	1.16	-7.5	14.8
18,710.0	90.95	179.34	10,880.7	-7,032.4	8.1	0.45	0.40	0.19	-8.1	15.4
18,800.0	91.52	178.99	10,878.7	-7,122.4	9.4	0.74	0.63	-0.39	-9.4	16.1
18,888.0	91.60	178.46	10,876.3	-7,210.3	11.4	0.61	0.09	-0.60	-11.2	17.6
18,977.0	92.44	177.94	10,873.2	-7,299.2	14.2	1.11	0.94	-0.58	-13.7	19.8
19,067.0	90.81	180.13	10,870.7	-7,389.2	15.7	3.03	-1.81	2.43	-15.6	20.8
19,156.0	91.43	180.22	10,868.9	-7,478.2	15.4	0.70	0.70	0.10	-16.8	19.9
19,245.0	88.97	180.75	10,868.6	-7,567.2	14.7	2.83	-2.76	0.60	-16.4	18.7
19,333.0	89.41	180.57	10,869.8	-7,655.1	13.7	0.54	0.50	-0.20	-14.6	17.1



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #508H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3541.0usft
Site:	Ruthless 11 Fed Com	MD Reference:	KB = 25 @ 3541.0usft
Well:	#508H	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)	
19,423.0	89.85	180.22	10,870.4	-7,745.1	13.0	0.62	0.49	-0.39	-13.4	15.9	
19,513.0	90.33	179.96	10,870.3	-7,835.1	12.9	0.61	0.53	-0.29	-12.9	15.2	
19,601.0	90.55	179.25	10,869.6	-7,923.1	13.5	0.84	0.25	-0.81	-13.0	15.3	
19,691.0	91.12	178.82	10,868.3	-8,013.1	15.0	0.79	0.63	-0.48	-13.6	16.3	
19,781.0	89.19	181.01	10,868.1	-8,103.1	15.1	3.24	-2.14	2.43	-13.3	15.8	
19,872.0	89.23	181.10	10,869.3	-8,194.1	13.5	0.11	0.04	0.10	-11.4	13.6	
19,962.0	89.58	180.66	10,870.2	-8,284.1	12.1	0.62	0.39	-0.49	-9.8	11.7	
20,051.0	90.02	180.22	10,870.6	-8,373.1	11.4	0.70	0.49	-0.49	-8.9	10.4	
20,141.0	90.95	179.78	10,869.8	-8,463.1	11.4	1.14	1.03	-0.49	-8.9	9.9	
20,231.0	91.65	179.34	10,867.8	-8,553.0	12.1	0.92	0.78	-0.49	-8.8	10.0	
20,322.0	88.13	181.98	10,867.9	-8,644.0	11.1	4.83	-3.87	2.90	-6.5	8.4	
20,412.0	88.04	181.98	10,870.9	-8,733.9	7.9	0.10	-0.10	0.00	-1.3	4.8	
20,503.0	88.57	181.36	10,873.6	-8,824.8	5.3	0.90	0.58	-0.68	3.5	1.5	
20,593.0	88.88	180.66	10,875.6	-8,914.8	3.7	0.85	0.34	-0.78	7.7	-0.6	
20,683.0	89.10	179.96	10,877.2	-9,004.8	3.2	0.82	0.24	-0.78	11.4	-1.6	
20,774.0	89.19	179.34	10,878.6	-9,095.8	3.8	0.69	0.10	-0.68	14.9	-1.6	
20,864.0	89.63	178.46	10,879.5	-9,185.7	5.5	1.09	0.49	-0.98	18.0	-0.5	
20,955.0	89.32	177.50	10,880.3	-9,276.7	8.7	1.11	-0.34	-1.05	21.0	2.2	
21,046.0	92.35	177.58	10,879.0	-9,367.6	12.6	3.33	3.33	0.09	21.8	5.5	
21,124.0	92.88	177.50	10,875.4	-9,445.4	16.0	0.69	0.68	-0.10	20.1	8.4	
Final MWD Survey (MD=21124.0')											
21,179.0	92.88	177.50	10,872.7	-9,500.3	18.4	0.00	0.00	0.00	18.7	10.4	
Final Projection to Bit (MD=21179.0')											



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #508H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3541.0usft
Site:	Ruthless 11 Fed Com	MD Reference:	KB = 25 @ 3541.0usft
Well:	#508H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	PEDM

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
10,448.0	10,364.0	923.8	-82.1	KOP (MD=10448.0')	
10,693.5	10,595.2	850.6	-68.4	HL Crossing, MD:10693.5', TVD:10595.2', N/S:850.6', E/W:-68.4', INC:30.52	
21,124.0	10,875.4	-9,445.4	16.0	Final MWD Survey (MD=21124.0')	
21,179.0	10,872.7	-9,500.3	18.4	Final Projection to Bit (MD=21179.0')	

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

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 <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 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					
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: 508H		
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:	A	11	25S	32E		951	NORTH	739	EAST	LEA
BH:	P	14	25S	32E		109	SOUTH	779	EAST	LEA
13. Date Spudded 12/22/2021	14. Date T.D. Reached 03/07/2022		15. Date Rig Released 03/10/2022			16. Date Completed (Ready to Produce) 04/20/2022		17. Elevations (DF and RKB, RT, GR, etc.) 3516' GL		
18. Total Measured Depth of Well MD 21,179' TVD 10,872'			19. Plug Back Measured Depth MD 21,179' TVD 10,872'			20. Was Directional Survey Made? YES		21. Type Electric and Other Logs Run None		
22. Producing Interval(s), of this completion - Top, Bottom, Name BONE SPRING 11,120 - 21,179'										
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		1074'		17 1/2"		1420 CL C/CIRC		
9 5/8"		36# HCL 80		4826'		12 1/4"		1535 CL C/CIRC		
5 1/2"		20# ECP 110		21,162'		8 3/4"		3590 CL /TOC 537' CBL		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		SIZE	DEPTH SET		PACKER SET	
26. Perforation record (interval, size, and number) 11,120 - 21,179' 3 1/8", 2016 holes						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						11,120 - 21,179'		FRAC W/21,594,584 lbs proppant, 333,843 bbls load fld		
28. PRODUCTION										
Date First Production 04/20/2022		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) Flowing				Well Status (<i>Prod. or Shut-in</i>) Producing				
Date of Test 04/26/2022	Hours Tested 24	Choke Size 80	Prod'n For Test Period	Oil - Bbl 3815	Gas - MCF 6480	Water - Bbl. 9479	Gas - Oil Ratio 1699			
Flow Tubing Press.	Casing Pressure 999	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (<i>Corr.</i>) 43				
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>) 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			Name Kay Maddox			Title Senior Regulatory Specialist			Date 05/10/2022	
E-mail Address kay_maddox@eogresources.com										

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.

Southeastern New Mexico				Northwestern New Mexico			
T. Anhy	Rustler	1192'	T. Canyon Brushy 7544'	T. Ojo Alamo	T. Penn A "		
T. Salt		1783'	T. Strawn	T. Kirtland	T. Penn. "B"		
B. Salt		5043'	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 10,000'	T. Entrada			
T. Wolfcamp			T. 2nd BS Sand 10,495'	T. Wingate			
T. Penn			T.	T. Chinle			
T. Cisco (Bough C)			T.	T. Permian			

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

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.....

From	To	Thickness In Feet	Lithology

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

ACKNOWLEDGMENTS

Action 105795

ACKNOWLEDGMENTS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 105795
	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.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 105795

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 105795
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	None	9/3/2025