

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

Form C-104
Revised August 1, 2011

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 8/30/2022	
⁴ API Number 30 - 025-47443	⁵ Pool Name WC-025 G-08 S253235G; LOWER BONE SPRINGS		⁶ Pool Code 97903
⁷ Property Code 328894	⁸ Property Name MERCILESS 13 FED COM		⁹ Well Number 504H

II. ¹⁰ Surface Location

UL or lot no. C	Section 13	Township 25S	Range 32E	Lot Idn	Feet from the 260'	North/South Line NORTH	Feet from the 2036'	East/West line WEST	County LEA
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¹¹ Bottom Hole Location

UL or lot no. F	Section 24	Township 25S	Range 32E	Lot Idn	Feet from the 2533'	North/South line NORTH	Feet from the 1901'	East/West line WEST	County 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 4/8/2022	²² Ready Date 8/30/2022	²³ TD 18,307'	²⁴ PBTD 18,285'	²⁵ Perforations 10,948'-18,285'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17 1/2"		13 3/8"	1,032'		925 SXS CL C/CIRC
12 1/4"		9 5/8"	4,750'		1700 SXS CL C/CIRC
7 7/8"		5 1/2"	18,307'		1790 SXS CL C/H CIRC

V. Well Test Data

³¹ Date New Oil 8/30/2022	³² Gas Delivery Date 8/30/2022	³³ Test Date 9/6/2022	³⁴ Test Length 24 HRS	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 1045
³⁷ Choke Size 60	³⁸ Oil 3344	³⁹ Water 7768	⁴⁰ Gas 3868		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: <i>Kristina Agee</i>			OIL CONSERVATION DIVISION Approved by: Title: Approval Date:		
Printed name: Kristina Agee					
Title: REGULATORY SPECIALIST					
E-mail Address: kristina_agee@eogresources.com					
Date: 10/25/2022		Phone: 432-686-6996			

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-DRILLED PLAT

¹ API Number 30-025-47443	² Pool Code 97903	³ Pool Name WC-025 G-08 S253235G; LOWER BONE SPRINGS
⁴ Property Code 328894	⁵ Property Name MERCILESS 13 FED COM	⁶ Well Number 504H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3497'

¹⁰Surface Location

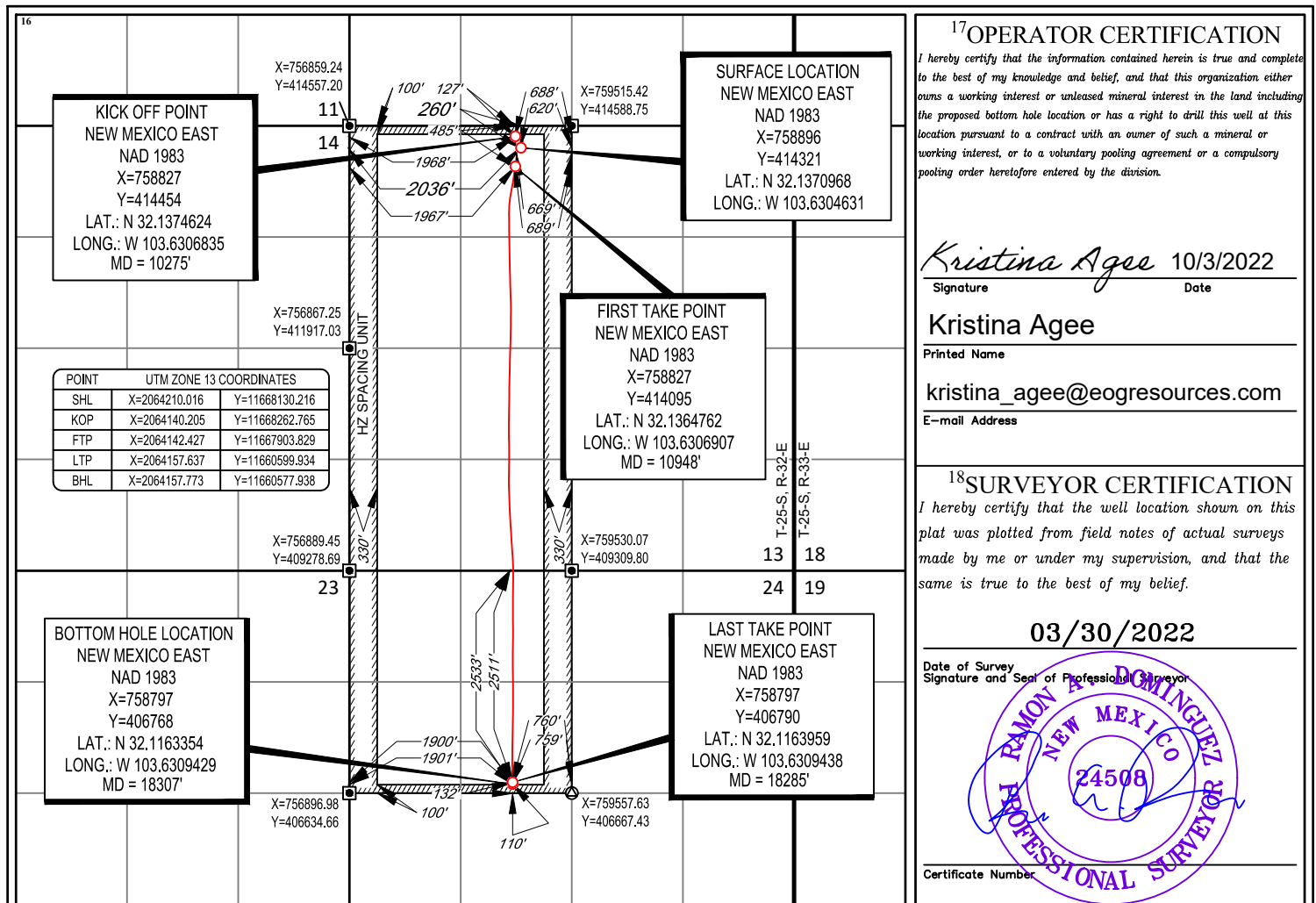
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	13	25-S	32-E	-	260'	NORTH	2036'	WEST	LEA

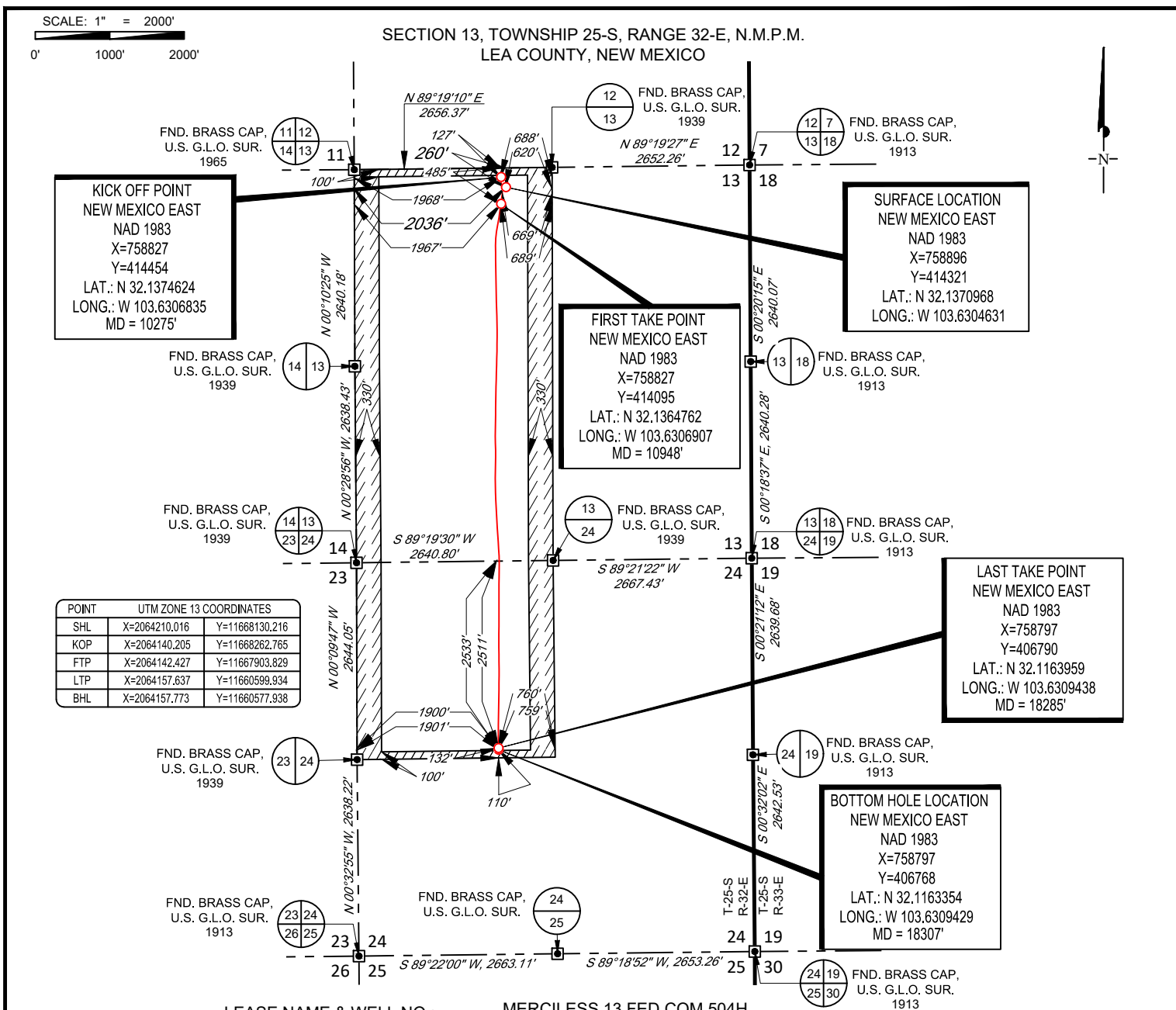
¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	24	25-S	32-E	-	2533'	NORTH	1901'	WEST	LEA

¹² Dedicated Acres 480.00	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.





1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

eoog resources, inc.



Ramon A. Dominguez, P.S. No. 24508
September 30, 2022

MERCILESS 13 FED COM
504H
AS-DRILLED

REVISION:

DATE: 09/30/2022

FILE: AD_MERCILESS_13_FED_COM_504H

DRAWN BY: SAR

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.



Midland

Lea County, NM (NAD 83 NME)

Merciless 13 Fed Com

#504H

OH

Design: OH

Final PVA

13 June, 2022





Final PVA



Company:	Midland	Local Co-ordinate Reference:	Well #504H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3523.0usft
Site:	Merciless 13 Fed Com	MD Reference:	KB = 26' @ 3523.0usft
Well:	#504H	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	Merciless 13 Fed Com		
Site Position:		Northing:	414,304.00 usft
From:	Map	Easting:	757,406.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 8' 13.472 N
		Longitude:	103° 38' 7.002 W
		Grid Convergence:	0.37 °

Well		#504H				
Well Position	+N/-S	0.0 usft	Northing:	414,321.00 usft	Latitude:	32° 8' 13.545 N
	+E/-W	0.0 usft	Easting:	758,896.00 usft	Longitude:	103° 37' 49.672 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,497.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	5/27/2022	6.45	59.78	47,337.30557712

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	180.75

Survey Program	Date	6/13/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
187.0	18,307.0	Altitude MWD (OH)	EOG MWD+IFR1	MWD + IFR1

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Well:	#504H	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	
187.0	1.24	220.62	187.0	-1.5	-1.3	0.66	0.66	0.00	-2.0	0.0	
308.0	1.56	221.97	307.9	-3.8	-3.3	0.27	0.26	1.12	-5.0	0.1	
397.0	1.62	230.52	396.9	-5.5	-5.1	0.27	0.07	9.61	-7.4	1.0	
487.0	1.79	244.32	486.9	-6.9	-7.3	0.49	0.19	15.33	-9.6	3.0	
676.0	2.41	253.91	675.7	-9.3	-13.8	0.38	0.33	5.07	-15.8	5.1	
865.0	3.55	255.44	864.5	-11.8	-23.3	0.60	0.60	0.81	-25.5	5.6	
960.0	3.13	254.60	959.3	-13.3	-28.6	0.45	-0.44	-0.88	-31.1	5.2	
1,150.0	1.71	251.25	1,149.2	-15.5	-36.3	0.75	-0.75	-1.76	-39.4	3.1	
1,245.0	2.17	274.06	1,244.1	-15.9	-39.4	0.94	0.48	24.01	-38.2	18.6	
1,339.0	2.42	289.13	1,338.0	-15.1	-43.1	0.69	0.27	16.03	-35.7	28.4	
1,434.0	1.41	314.47	1,433.0	-13.6	-45.8	1.36	-1.06	26.67	-23.1	41.8	
1,529.0	1.05	27.55	1,528.0	-12.0	-46.2	1.57	-0.38	76.93	32.0	35.4	
1,624.0	1.00	18.54	1,622.9	-10.5	-45.6	0.18	-0.05	-9.48	24.4	39.9	
1,718.0	1.17	16.24	1,716.9	-8.8	-45.0	0.19	0.18	-2.45	21.0	40.8	
1,813.0	1.12	7.43	1,811.9	-6.9	-44.7	0.19	-0.05	-9.27	12.6	43.4	
1,908.0	0.88	13.93	1,906.9	-5.3	-44.4	0.28	-0.25	6.84	15.8	41.8	
2,003.0	1.00	13.57	2,001.9	-3.8	-44.0	0.13	0.13	-0.38	14.0	41.9	
2,098.0	0.89	2.04	2,096.9	-2.2	-43.8	0.23	-0.12	-12.14	3.8	43.7	
2,193.0	1.00	13.00	2,191.9	-0.7	-43.6	0.22	0.12	11.54	10.5	42.3	
2,288.0	1.45	25.36	2,286.8	1.2	-42.9	0.55	0.47	13.01	17.3	39.2	
2,382.0	2.60	47.13	2,380.8	3.7	-40.8	1.45	1.22	23.16	27.3	30.5	
2,477.0	2.60	33.52	2,475.7	7.0	-38.0	0.65	0.00	-14.33	15.1	35.6	
2,572.0	2.80	41.15	2,570.6	10.5	-35.3	0.43	0.21	8.03	15.3	33.5	
2,667.0	2.52	44.51	2,665.5	13.8	-32.3	0.34	-0.29	3.54	12.8	32.7	
2,762.0	2.55	39.57	2,760.4	16.9	-29.5	0.23	0.03	-5.20	5.8	33.5	
2,857.0	2.63	38.20	2,855.3	20.2	-26.8	0.11	0.08	-1.44	0.7	33.6	



Final PVA



Company:	Midland	Local Co-ordinate Reference:	Well #504H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3523.0usft
Site:	Merciless 13 Fed Com	MD Reference:	KB = 26' @ 3523.0usft
Well:	#504H	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)	
2,952.0	2.90	37.34	2,950.2	23.9	-24.0	0.29	0.28	-0.91	-4.4	33.5	
3,047.0	2.74	40.29	3,045.1	27.5	-21.1	0.23	-0.17	3.11	-7.3	33.9	
3,142.0	2.79	39.67	3,139.9	31.0	-18.1	0.06	0.05	-0.65	-12.3	33.8	
3,236.0	2.29	45.07	3,233.8	34.1	-15.3	0.59	-0.53	5.74	-13.2	35.0	
3,331.0	1.22	85.34	3,328.8	35.5	-13.0	1.65	-1.13	42.39	10.1	36.5	
3,426.0	0.99	77.22	3,423.8	35.8	-11.2	0.29	-0.24	-8.55	3.0	37.4	
3,520.0	1.29	91.94	3,517.8	35.9	-9.3	0.44	0.32	15.66	10.5	35.6	
3,615.0	1.44	64.91	3,612.7	36.4	-7.2	0.69	0.16	-28.45	-8.9	36.0	
3,709.0	1.76	62.60	3,706.7	37.6	-4.8	0.35	0.34	-2.46	-13.0	35.6	
3,804.0	1.99	34.30	3,801.7	39.6	-2.6	0.99	0.24	-29.79	-31.2	24.5	
3,994.0	2.48	10.62	3,991.5	46.4	0.0	0.54	0.26	-12.46	-45.6	8.5	
4,088.0	2.30	9.86	4,085.4	50.2	0.7	0.19	-0.19	-0.81	-49.6	7.9	
4,183.0	2.26	15.63	4,180.4	53.9	1.5	0.25	-0.04	6.07	-52.3	13.0	
4,278.0	2.07	36.65	4,275.3	57.1	3.1	0.85	-0.20	22.13	-47.6	31.6	
4,372.0	1.80	41.08	4,369.2	59.6	5.1	0.33	-0.29	4.71	-48.2	35.3	
4,562.0	2.03	78.26	4,559.1	62.5	10.3	0.65	0.12	19.57	-22.9	58.5	
4,657.0	2.08	93.49	4,654.1	62.7	13.7	0.58	0.05	16.03	-11.7	59.6	
4,707.0	2.37	92.69	4,704.0	62.6	15.6	0.58	0.58	-1.60	-15.6	56.8	
4,853.0	2.17	97.33	4,849.9	62.1	21.4	0.19	-0.14	3.18	-20.7	50.9	
4,947.0	2.48	357.26	4,943.9	63.9	23.0	3.80	0.33	-106.46	-43.3	-32.6	
5,042.0	3.41	346.21	5,038.8	68.7	22.3	1.14	0.98	-11.63	-35.8	-41.4	
5,137.0	3.45	347.92	5,133.6	74.3	21.0	0.12	0.04	1.80	-37.4	-41.1	
5,232.0	3.28	345.68	5,228.4	79.7	19.7	0.23	-0.18	-2.36	-36.0	-43.2	
5,327.0	3.88	307.70	5,323.2	84.3	16.5	2.52	0.63	-39.98	-2.6	-55.1	
5,421.0	4.13	308.53	5,417.0	88.4	11.4	0.27	0.27	0.88	-5.4	-52.4	
5,516.0	4.12	305.83	5,511.8	92.5	5.9	0.20	-0.01	-2.84	-5.3	-49.8	
5,611.0	4.13	304.39	5,606.5	96.4	0.3	0.11	0.01	-1.52	-6.4	-47.0	



Final PVA



Company:	Midland	Local Co-ordinate Reference:	Well #504H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3523.0usft
Site:	Merciless 13 Fed Com	MD Reference:	KB = 26' @ 3523.0usft
Well:	#504H	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)
5,706.0	4.57	328.40	5,701.3	101.6	-4.5	1.96	0.46	25.27	-26.6	-38.0
5,801.0	4.69	329.06	5,796.0	108.1	-8.5	0.14	0.13	0.69	-29.4	-36.7
5,895.0	4.76	328.09	5,889.6	114.7	-12.5	0.11	0.07	-1.03	-31.3	-36.3
5,990.0	4.61	329.52	5,984.3	121.4	-16.5	0.20	-0.16	1.51	-34.7	-34.6
6,085.0	4.60	325.36	6,079.0	127.8	-20.6	0.35	-0.01	-4.38	-34.5	-36.0
6,180.0	3.00	333.68	6,173.8	133.2	-23.9	1.78	-1.68	8.76	-40.3	-29.6
6,275.0	3.00	329.25	6,268.7	137.5	-26.3	0.24	0.00	-4.66	-37.6	-32.0
6,370.0	1.20	333.22	6,363.6	140.5	-28.0	1.90	-1.89	4.18	-37.8	-28.6
6,464.0	1.26	330.82	6,457.6	142.3	-28.9	0.08	0.06	-2.55	-33.4	-29.5
6,559.0	1.44	337.72	6,552.5	144.3	-29.9	0.25	0.19	7.26	-33.5	-25.0
6,654.0	0.26	197.13	6,647.5	145.2	-30.4	1.74	-1.24	-147.99	38.3	0.6
6,749.0	0.42	209.42	6,742.5	144.7	-30.6	0.18	0.17	12.94	33.6	-3.4
6,843.0	0.57	199.01	6,836.5	144.0	-31.0	0.19	0.16	-11.07	28.8	6.1
6,938.0	0.42	204.57	6,931.5	143.2	-31.3	0.17	-0.16	5.85	24.7	7.2
7,033.0	0.89	236.27	7,026.5	142.5	-32.0	0.61	0.49	33.37	22.6	-1.5
7,128.0	0.76	37.01	7,121.5	142.6	-32.3	1.71	-0.14	169.20	-18.9	-10.4
7,223.0	1.04	56.93	7,216.5	143.6	-31.2	0.44	0.29	20.97	-21.9	-7.4
7,318.0	1.08	54.96	7,311.5	144.5	-29.7	0.06	0.04	-2.07	-23.1	-9.4
7,413.0	0.85	57.79	7,406.5	145.4	-28.4	0.25	-0.24	2.98	-25.1	-8.2
7,508.0	0.91	43.15	7,501.5	146.4	-27.3	0.24	0.06	-15.41	-23.7	-14.5
7,697.0	0.51	56.31	7,690.5	147.9	-25.5	0.23	-0.21	6.96	-28.6	-8.4
7,792.0	0.22	17.81	7,785.5	148.3	-25.1	0.38	-0.31	-40.53	-17.7	-24.6
7,887.0	0.52	103.44	7,880.5	148.4	-24.7	0.58	0.32	90.14	-26.4	16.0
8,076.0	0.47	171.35	8,069.4	147.4	-23.7	0.29	-0.03	35.93	3.8	31.2
8,171.0	0.78	175.96	8,164.4	146.4	-23.6	0.33	0.33	4.85	5.3	30.8
8,266.0	1.12	195.96	8,259.4	144.9	-23.8	0.49	0.36	21.05	13.9	27.4
8,360.0	1.35	185.39	8,353.4	142.9	-24.2	0.34	0.24	-11.24	6.7	29.3

Company:	Midland	Local Co-ordinate Reference:	Well #504H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3523.0usft
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Well:	#504H	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)	
8,455.0	1.55	201.12	8,448.4	140.6	-24.7	0.47	0.21	16.56	12.0	26.7	
8,549.0	2.11	196.48	8,542.3	137.7	-25.7	0.62	0.60	-4.94	6.8	27.5	
8,644.0	2.31	198.99	8,637.3	134.2	-26.8	0.23	0.21	2.64	4.4	27.3	
8,739.0	2.10	195.24	8,732.2	130.8	-27.9	0.27	-0.22	-3.95	-1.1	27.4	
8,834.0	1.97	197.94	8,827.1	127.5	-28.8	0.17	-0.14	2.84	-3.2	27.5	
8,929.0	1.93	209.88	8,922.1	124.6	-30.1	0.43	-0.04	12.57	-0.6	27.9	
9,023.0	1.87	288.29	9,016.0	123.7	-32.4	2.56	-0.06	83.41	25.3	7.8	
9,118.0	2.34	284.18	9,111.0	124.7	-35.7	0.52	0.49	-4.33	21.2	9.4	
9,213.0	2.16	298.66	9,205.9	126.0	-39.2	0.63	-0.19	15.24	19.2	4.3	
9,308.0	2.43	325.91	9,300.8	128.5	-41.9	1.17	0.28	28.68	15.5	-4.2	
9,402.0	2.39	301.50	9,394.7	131.2	-44.7	1.08	-0.04	-25.97	12.0	1.8	
9,497.0	1.93	279.19	9,489.7	132.5	-47.9	1.00	-0.48	-23.48	7.0	5.5	
9,592.0	1.36	262.32	9,584.6	132.6	-50.6	0.78	-0.60	-17.76	2.5	6.8	
9,687.0	1.57	288.97	9,679.6	132.9	-53.0	0.74	0.22	28.05	3.0	5.5	
9,781.0	1.47	292.41	9,773.6	133.7	-55.3	0.14	-0.11	3.66	0.8	5.4	
9,876.0	1.12	292.66	9,868.6	134.6	-57.3	0.37	-0.37	0.26	-1.3	5.4	
9,971.0	1.12	259.93	9,963.5	134.7	-59.1	0.66	0.00	-34.45	-5.7	3.3	
10,065.0	1.80	268.66	10,057.5	134.6	-61.5	0.76	0.72	9.29	-7.6	4.3	
10,160.0	2.02	266.48	10,152.4	134.4	-64.6	0.24	0.23	-2.29	-10.9	3.9	
10,275.0	2.99	234.42	10,267.3	132.5	-69.1	1.45	0.84	-27.88	-16.0	-3.5	
KOP, MD:10275.0', TVD:10267.3', N/S:149.5', E/W:1420.9', INC:2.99											
10,299.0	3.26	230.48	10,291.3	131.8	-70.1	1.45	1.14	-16.41	-17.0	-4.7	
10,394.0	12.91	181.00	10,385.3	119.4	-72.4	11.65	10.16	-52.08	-19.3	-18.1	
10,489.0	23.54	170.12	10,475.5	90.0	-69.3	11.70	11.19	-11.45	-33.8	-19.9	
10,583.0	35.71	171.73	10,557.0	44.2	-62.1	12.97	12.95	1.71	-55.5	-10.9	
10,678.0	42.53	170.51	10,630.7	-15.0	-52.8	7.22	7.18	-1.28	-76.1	0.9	
10,773.0	51.12	182.81	10,695.7	-83.9	-49.3	13.04	9.04	12.95	-88.4	26.3	



Final PVA



Company:	Midland	Local Co-ordinate Reference:	Well #504H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3523.0usft
Site:	Merciless 13 Fed Com	MD Reference:	KB = 26' @ 3523.0usft
Well:	#504H	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)
10,868.0	54.75	190.46	10,753.0	-159.0	-58.2	7.47	3.82	8.05	-92.0	33.6
10,963.0	59.80	187.86	10,804.4	-237.9	-70.9	5.79	5.32	-2.74	-87.6	27.5
11,057.0	64.97	186.84	10,848.0	-320.5	-81.5	5.58	5.50	-1.09	-72.8	26.1
11,152.0	76.52	189.26	10,879.2	-409.1	-94.1	12.39	12.16	2.55	-53.9	23.7
11,247.0	80.05	191.31	10,898.5	-500.6	-110.7	4.27	3.72	2.16	-35.2	16.2
11,343.0	84.85	189.26	10,911.1	-594.2	-127.7	5.43	5.00	-2.14	-22.6	4.1
11,437.0	85.63	183.33	10,918.9	-687.3	-138.0	6.34	0.83	-6.31	-14.7	-5.5
11,532.0	87.13	179.66	10,924.9	-782.1	-140.4	4.17	1.58	-3.86	-8.5	-8.4
11,627.0	87.38	179.30	10,929.5	-877.0	-139.6	0.46	0.26	-0.38	-3.8	-8.0
11,722.0	88.19	179.46	10,933.2	-971.9	-138.5	0.87	0.85	0.17	0.0	-7.5
11,816.0	88.16	179.30	10,936.2	-1,065.8	-137.5	0.17	-0.03	-0.17	3.1	-6.9
11,911.0	91.67	178.83	10,936.3	-1,160.8	-136.0	3.73	3.69	-0.49	3.4	-5.8
12,006.0	91.19	179.29	10,933.9	-1,255.8	-134.4	0.70	-0.51	0.48	1.1	-4.7
12,101.0	90.27	178.65	10,932.7	-1,350.7	-132.7	1.18	-0.97	-0.67	0.0	-3.5
12,195.0	89.06	178.93	10,933.3	-1,444.7	-130.7	1.32	-1.29	0.30	0.7	-2.0
12,290.0	89.57	178.05	10,934.4	-1,539.7	-128.2	1.07	0.54	-0.93	2.0	0.1
12,385.0	89.51	178.60	10,935.2	-1,634.6	-125.4	0.58	-0.06	0.58	2.9	2.4
12,480.0	88.89	178.19	10,936.5	-1,729.6	-122.8	0.78	-0.65	-0.43	4.3	4.6
12,575.0	88.81	178.21	10,938.4	-1,824.5	-119.8	0.09	-0.08	0.02	6.4	7.1
12,670.0	90.88	180.19	10,938.7	-1,919.5	-118.5	3.02	2.18	2.08	6.8	8.0
12,765.0	90.32	180.54	10,937.7	-2,014.5	-119.1	0.70	-0.59	0.37	5.9	6.9
12,859.0	89.90	180.35	10,937.5	-2,108.5	-119.8	0.49	-0.45	-0.20	5.9	5.7
12,954.0	89.20	181.10	10,938.2	-2,203.5	-121.0	1.08	-0.74	0.79	6.7	4.1
13,049.0	92.15	181.63	10,937.1	-2,298.4	-123.3	3.15	3.11	0.56	5.8	1.3
13,144.0	92.40	181.90	10,933.3	-2,393.3	-126.2	0.39	0.26	0.28	2.1	-2.1
13,239.0	92.23	181.43	10,929.5	-2,488.2	-129.0	0.53	-0.18	-0.49	-1.6	-5.3
13,334.0	92.03	181.36	10,926.0	-2,583.1	-131.3	0.22	-0.21	-0.07	-5.0	-8.1

Company:	Midland	Local Co-ordinate Reference:	Well #504H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3523.0usft
Site:	Merciless 13 Fed Com	MD Reference:	KB = 26' @ 3523.0usft
Well:	#504H	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)
13,428.0	91.25	181.07	10,923.3	-2,677.0	-133.3	0.89	-0.83	-0.31	-7.5	-10.5
13,523.0	90.69	181.34	10,921.7	-2,772.0	-135.3	0.65	-0.59	0.28	-9.0	-13.0
13,618.0	89.96	180.90	10,921.1	-2,867.0	-137.1	0.90	-0.77	-0.46	-9.4	-15.3
13,713.0	89.03	180.67	10,922.0	-2,962.0	-138.4	1.01	-0.98	-0.24	-8.5	-17.0
13,808.0	89.01	180.78	10,923.6	-3,056.9	-139.6	0.12	-0.02	0.12	-6.7	-18.7
13,903.0	88.36	180.59	10,925.8	-3,151.9	-140.7	0.71	-0.68	-0.20	-4.4	-20.3
13,998.0	88.28	180.97	10,928.6	-3,246.9	-142.0	0.41	-0.08	0.40	-1.5	-22.1
14,093.0	87.77	180.61	10,931.8	-3,341.8	-143.3	0.66	-0.54	-0.38	1.9	-23.8
14,188.0	88.64	178.20	10,934.8	-3,436.7	-142.4	2.70	0.92	-2.54	5.1	-23.3
14,283.0	90.57	178.31	10,935.5	-3,531.7	-139.5	2.03	2.03	0.12	5.8	-20.9
14,377.0	91.89	180.60	10,933.4	-3,625.6	-138.6	2.81	1.40	2.44	4.0	-20.4
14,471.0	92.34	181.09	10,930.0	-3,719.6	-140.0	0.71	0.48	0.52	0.6	-22.3
14,566.0	92.45	180.99	10,926.0	-3,814.5	-141.7	0.16	0.12	-0.11	-3.2	-24.5
14,660.0	92.34	180.84	10,922.1	-3,908.4	-143.2	0.20	-0.12	-0.16	-7.0	-26.4
14,755.0	91.47	178.63	10,918.9	-4,003.3	-142.7	2.50	-0.92	-2.33	-10.1	-26.4
14,850.0	91.52	178.10	10,916.4	-4,098.3	-140.0	0.56	0.05	-0.56	-12.4	-24.2
14,943.0	90.69	177.80	10,914.6	-4,191.2	-136.7	0.95	-0.89	-0.32	-14.1	-21.3
15,038.0	89.06	177.29	10,914.9	-4,286.1	-132.6	1.80	-1.72	-0.54	-13.7	-17.7
15,133.0	89.00	176.98	10,916.5	-4,380.9	-127.9	0.33	-0.06	-0.33	-12.0	-13.4
15,228.0	89.00	176.46	10,918.1	-4,475.8	-122.5	0.55	0.00	-0.55	-10.2	-8.5
15,322.0	88.78	176.27	10,919.9	-4,569.6	-116.5	0.31	-0.23	-0.20	-8.2	-3.0
15,417.0	89.01	176.37	10,921.8	-4,664.4	-110.4	0.26	0.24	0.11	-6.3	2.7
15,513.0	89.51	176.29	10,923.0	-4,760.2	-104.3	0.53	0.52	-0.08	-4.9	8.3
15,607.0	90.10	176.27	10,923.3	-4,854.0	-98.2	0.63	0.63	-0.02	-4.4	14.0
15,703.0	88.22	177.51	10,924.7	-4,949.8	-93.0	2.35	-1.96	1.29	-2.9	18.7
15,798.0	88.08	179.43	10,927.8	-5,044.7	-90.4	2.03	-0.15	2.02	0.3	20.8
15,839.0	87.77	180.61	10,929.3	-5,085.7	-90.4	2.97	-0.76	2.88	1.9	20.6

Company:	Midland	Local Co-ordinate Reference:	Well #504H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3523.0usft
Site:	Merciless 13 Fed Com	MD Reference:	KB = 26' @ 3523.0usft
Well:	#504H	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)
15,987.0	88.03	181.04	10,934.7	-5,233.6	-92.6	0.34	0.18	0.29	7.5	17.7
16,082.0	87.88	180.40	10,938.1	-5,328.5	-93.8	0.69	-0.16	-0.67	11.0	16.1
16,177.0	87.80	180.32	10,941.7	-5,423.4	-94.3	0.12	-0.08	-0.08	14.7	15.0
16,272.0	87.58	179.54	10,945.5	-5,518.3	-94.2	0.85	-0.23	-0.82	18.7	14.7
16,367.0	88.19	179.64	10,949.0	-5,613.3	-93.6	0.65	0.64	0.11	22.3	14.9
16,461.0	88.50	179.69	10,951.7	-5,707.2	-93.0	0.33	0.33	0.05	25.2	15.0
16,556.0	90.15	180.44	10,952.9	-5,802.2	-93.1	1.91	1.74	0.79	26.4	14.4
16,651.0	90.01	181.17	10,952.7	-5,897.2	-94.4	0.78	-0.15	0.77	26.4	12.6
16,746.0	91.83	180.20	10,951.2	-5,992.2	-95.6	2.17	1.92	-1.02	25.0	11.0
16,841.0	92.66	179.86	10,947.5	-6,087.1	-95.6	0.94	0.87	-0.36	21.4	10.5
16,935.0	92.79	179.76	10,943.0	-6,181.0	-95.3	0.17	0.14	-0.11	17.1	10.4
17,030.0	92.68	179.34	10,938.5	-6,275.9	-94.6	0.46	-0.12	-0.44	12.7	10.6
17,125.0	92.99	179.34	10,933.8	-6,370.8	-93.5	0.33	0.33	0.00	8.1	11.3
17,219.0	91.73	179.84	10,929.9	-6,464.7	-92.8	1.44	-1.34	0.53	4.4	11.5
17,314.0	88.75	180.08	10,929.5	-6,559.7	-92.7	3.15	-3.14	0.25	4.1	11.1
17,409.0	89.73	180.28	10,930.8	-6,654.7	-93.0	1.05	1.03	0.21	5.5	10.3
17,503.0	89.79	180.76	10,931.2	-6,748.7	-93.9	0.51	0.06	0.51	6.0	9.0
17,598.0	91.30	181.45	10,930.3	-6,843.6	-95.7	1.75	1.59	0.73	5.3	6.7
17,693.0	91.28	181.01	10,928.1	-6,938.6	-97.8	0.46	-0.02	-0.46	3.3	4.2
17,787.0	91.78	180.72	10,925.6	-7,032.6	-99.2	0.61	0.53	-0.31	0.9	2.4
17,882.0	91.69	180.68	10,922.7	-7,127.5	-100.3	0.10	-0.09	-0.04	-1.9	0.7
17,977.0	91.30	180.62	10,920.3	-7,222.5	-101.4	0.42	-0.41	-0.06	-4.2	-0.8
18,070.0	91.42	180.06	10,918.0	-7,315.4	-102.0	0.62	0.13	-0.60	-6.3	-1.8
18,164.0	91.78	179.50	10,915.4	-7,409.4	-101.6	0.71	0.38	-0.60	-8.8	-1.9
18,247.0	91.36	178.90	10,913.1	-7,492.4	-100.5	0.88	-0.51	-0.72	-10.9	-1.2
Last MWD Survey (MD=18247.0')										



Final PVA



Company:	Midland	Local Co-ordinate Reference:	Well #504H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3523.0usft
Site:	Merciless 13 Fed Com	MD Reference:	KB = 26' @ 3523.0usft
Well:	#504H	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)
18,307.0	91.36	178.90	10,911.7	-7,552.3	-99.3	0.00	0.00	0.00	-12.3	-0.3
Projection to Bit (MD=18307.0')										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,275.0	10,267.3	132.5	-69.1	KOP, MD:10275.0', TVD:10267.3',N/S:149.5', E/W:1420.9', INC:2.99
18,247.0	10,913.1	-7,492.4	-100.5	Last MWD Survey (MD=18247.0')
18,307.0	10,911.7	-7,552.3	-99.3	Projection to Bit (MD=18307.0')

Checked By: _____ Approved By: _____ Date: _____

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 MERCILESS 13 FED COM		
								6. Well Number: 504H		
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 WC-025 G-08 S253235G; LOWER BONE SPRINGS			
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	C	13	25S	32E		260'	NORTH	2036'	WEST	LEA
BH:	F	24	25S	32E		2533'	NORTH	1901'	WEST	LEA
13. Date Spudded 4/8/2022	14. Date T.D. Reached 5/27/2022		15. Date Rig Released 5/29/2022			16. Date Completed (Ready to Produce) 8/30/2022		17. Elevations (DF and RKB, RT, GR, etc.) 3497'GL		
18. Total Measured Depth of Well MD 18,307' TVD 10,911'			19. Plug Back Measured Depth MD 18,285' TVD 10,911'			20. Was Directional Survey Made? YES		21. Type Electric and Other Logs Run None		
22. Producing Interval(s), of this completion - Top, Bottom, Name LOWER BONESPRING - 10,948'-18,285'										
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"		54.4# J-55		1,032'		17 1/2"		925 CL C/CIRC		
9 5/8"		40# J-55		4,750'		12 1/4"		1700 CL C/CIRC		
5 1/2"		20# HCP 110		18,307'		7 7/8"		1790 CL C/H CIRC		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET			
26. Perforation record (interval, size, and number) 10,948'-18,285' 3 1/8", 1554 holes						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						10,948'-18,285'		FRAC W/16,225,220 lbs proppant, 238,773 bbls load fld		
28. PRODUCTION										
Date First Production 8/30/2022		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 9/6/2022	Hours Tested 24	Choke Size 60	Prod'n For Test Period	Oil - Bbl 3344	Gas - MCF 3868	Water - Bbl. 7768	Gas - Oil Ratio 1157			
Flow Tubing Press.	Casing Pressure 1045	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (<i>Corr.</i>) 46.8				
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>) SOLD								30. Test Witnessed By		
31. List Attachments C-102, C-104, C-103, 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 <i>Kristina Agee</i>			Printed Name Kristina Agee		Title Senior Regulatory Administrator			Date 10/25/2022		
E-mail Address kristina_agee@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 925'	T. Canyon Brushy 7,303'	T. Ojo Alamo	T. Penn A "
T. Salt 1,240'	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt 4,649'	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 9,972'	T. Entrada	
T. Wolfcamp	T. 2nd BS Sand 10,486'	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

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/ocd/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 153563

ACKNOWLEDGMENTS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 153563
	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

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

CONDITIONS

Action 153563

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 153563
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report within 10 days of BLM approval.	10/9/2025