

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLSWAY AND 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 08/07/2022	
⁴ API Number 30 - 025-49894	⁵ Pool Name RED HILLS; BONE SPRING, EAST		⁶ Pool Code 97369
⁷ Property Code 325650	⁸ Property Name PEREGRINE 27 FEDERAL COM		⁹ Well Number 316H

II. ¹⁰ Surface Location

Ul or lot no. I	Section 27	Township 24S	Range 34E	Lot Idn	Feet from the 1879	North/South Line SOUTH	Feet from the 864	East/West line EAST	County LEA
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¹¹ Bottom Hole Location

UL or lot no. G	Section 3	Township 25S	Range 34E	Lot Idn	Feet from the 2519	North/South line NORTH	Feet from the 2037	East/West line EAST	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 03/23/2022	²² Ready Date 08/07/2022	²³ TD 20,820'	²⁴ PBDT 20,794'	²⁵ Perforations 10,783 - 20,794'	²⁶ DHC, MC		
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set		³⁰ Sacks Cement	
16		13 3/8"		1214'		530 SXS CL C/CIRC	
12 1/4"		9 5/8"		5517'		1680 SXS CL C/CIRC	
8 3/4"		5 1/2"		20,800'		2180 SXS CL C&H TOC 800' CBL	

V. Well Test Data

³¹ Date New Oil 08/07/2022	³² Gas Delivery Date 08/07/2022	³³ Test Date 08/14/2022	³⁴ Test Length 24 HRS	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 719
³⁷ Choke Size 86	³⁸ Oil 3132	³⁹ Water 9035	⁴⁰ Gas 4695		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			OIL CONSERVATION DIVISION Approved by: Title: Approval Date:		
Printed name: Kay Maddox					
Title: SENIOR REGULATORY SPECIALIST					
E-mail Address: kay_maddox@eogresources.com					
Date: 08/17/2022		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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-49894	² Pool Code 97369	³ Pool Name RED HILLS; BONE SPRING, EAST
⁴ Property Code 325650	⁵ Property Name PEREGRINE 27 FED COM	⁶ Well Number 316H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3448'

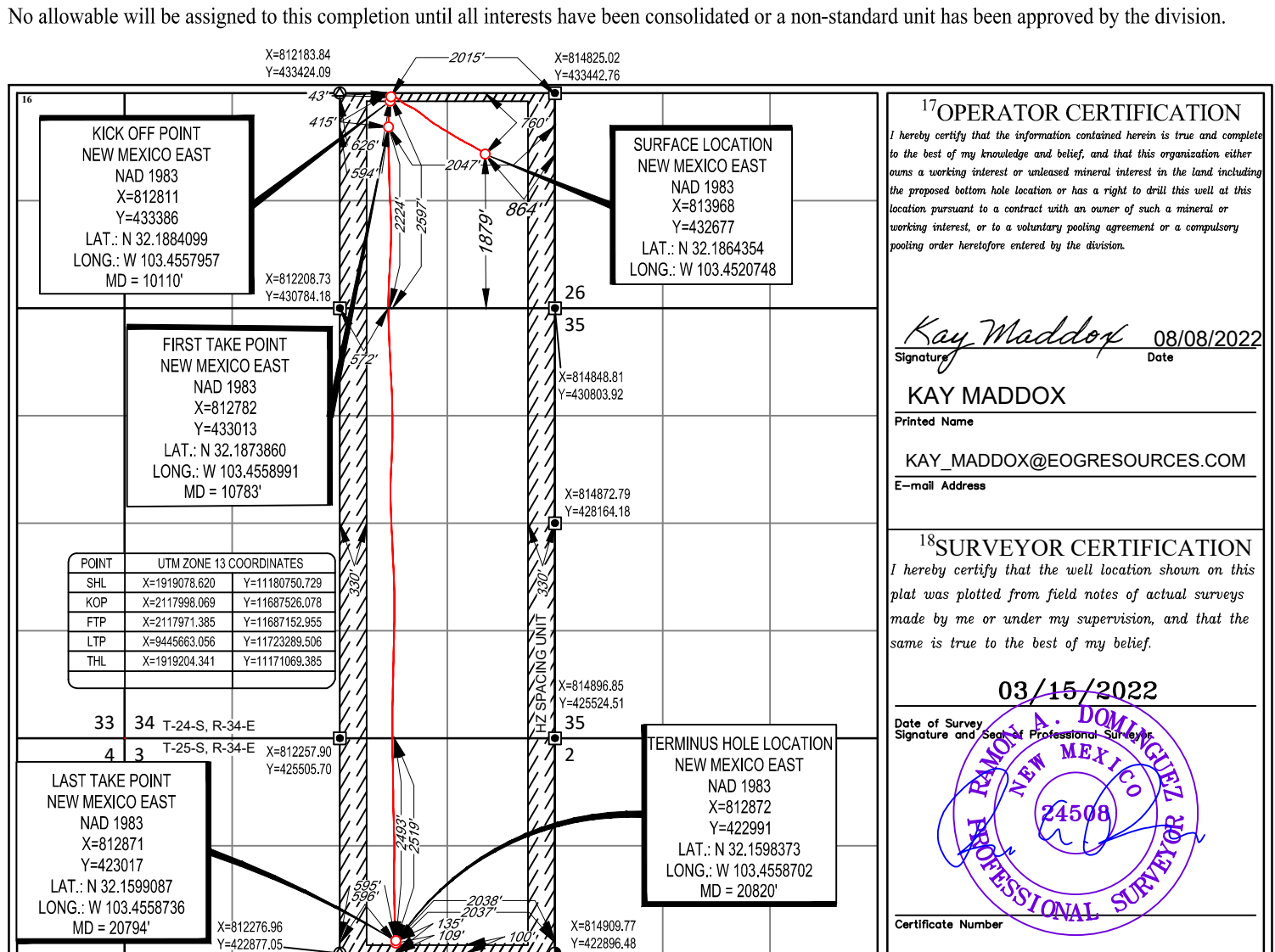
¹⁰Surface Location

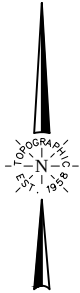
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	27	24-S	34-E	-	1879'	SOUTH	864'	EAST	LEA

¹¹Bottom Hole Location If Different From Surface

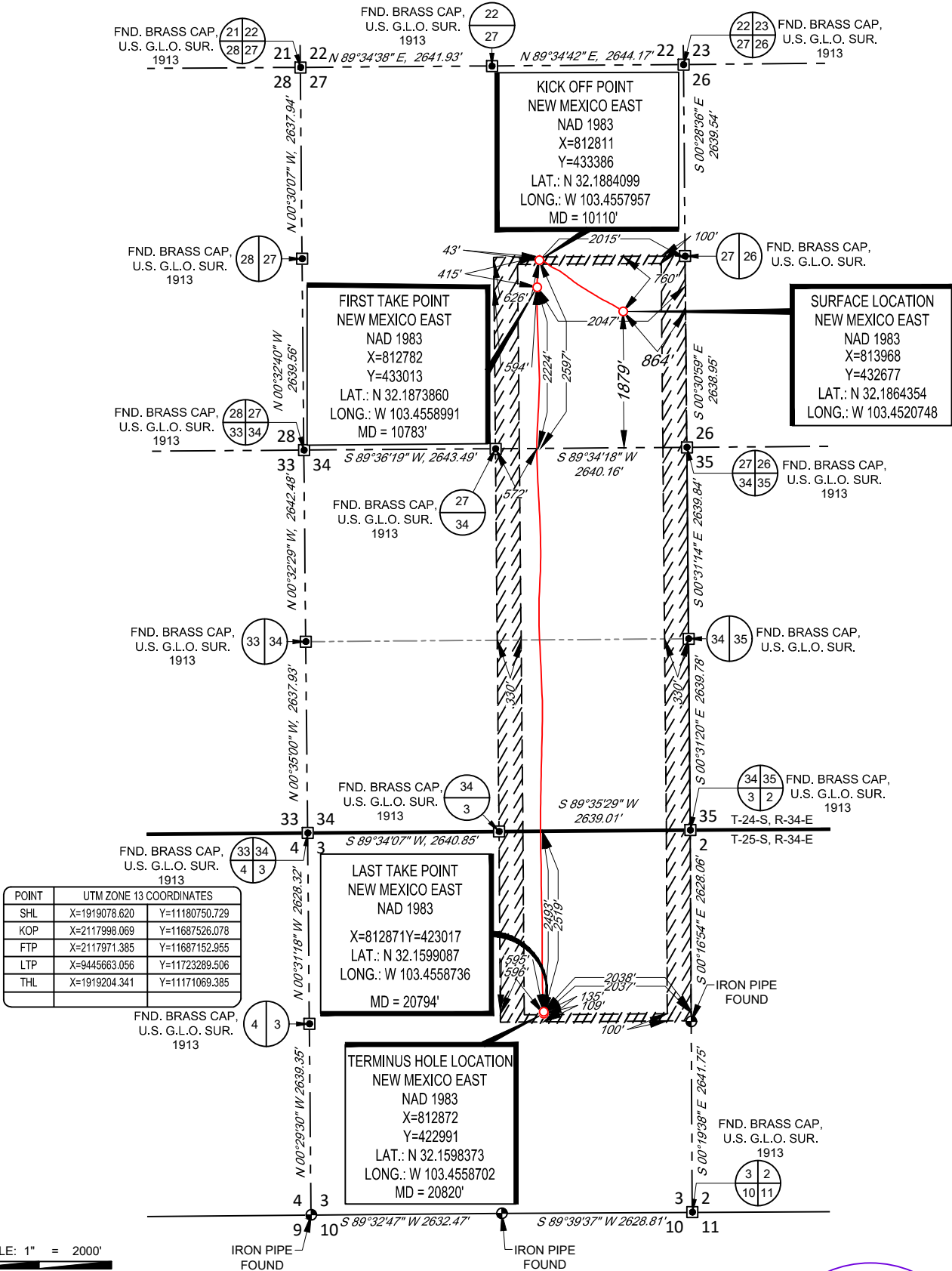
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	3	25-S	34-E	-	2519'	NORTH	2037'	EAST	LEA

¹² Dedicated Acres 639.36	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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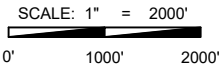




SECTION 27, TOWNSHIP 24-S, RANGE 34-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



POINT	UTM ZONE 13 COORDINATES	
SHL	X=1919078.620	Y=11180750.729
KOP	X=2117998.069	Y=11687526.078
FTP	X=2117971.385	Y=11687152.955
LTP	X=9445663.056	Y=11723289.506
THL	X=1919204.341	Y=11171069.385



LEASE NAME & WELL NO.: PEREGRINE 27 FED COM 316H
SECTION 27 TWP 24-S RGE 34-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3448'
DESCRIPTION 1879' FSL & 864' 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
August 8, 2022



PEREGRINE 27 FED COM 316H AS-DRILLED	REVISION:
DATE: 08/04/2022	
FILE:AD_PEREGRINE_27_FC_316H	
DRAWN BY: LS	
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)
Peregrine 27 Fed Com
#316H
OH

Design: OH

Final PVA

15 May, 2022





Final PVA



Company:	Midland	Local Co-ordinate Reference:	Well #316H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3476.0usft
Site:	Peregrine 27 Fed Com	MD Reference:	KB = 26' @ 3476.0usft
Well:	#316H	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	Peregrine 27 Fed Com		
Site Position:		Northing:	431,580.00 usft
From:	Map	Easting:	810,070.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 11' 0.630 N
		Longitude:	103° 27' 52.923 W
		Grid Convergence:	0.46 °

Well		#316H				
Well Position	+N/-S	0.0 usft	Northing:	432,677.00 usft	Latitude:	32° 11' 11.171 N
	+E/-W	0.0 usft	Easting:	813,968.00 usft	Longitude:	103° 27' 7.465 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,450.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	4/10/2022	6.39	59.86	47,398.25962590

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	186.51

Survey Program	Date 5/15/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
199.0	20,820.0	Gordon MWD (OH)	EOG MWD+IFR1	MWD + IFR1

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Well:	#316H	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	
199.0	0.52	280.82	199.0	0.2	-0.9	0.26	0.26	0.00	-0.9	0.0	
304.0	0.58	349.59	304.0	0.8	-1.5	0.59	0.06	65.50	-1.0	1.3	
393.0	0.38	351.66	393.0	1.5	-1.6	0.23	-0.22	2.33	-1.7	1.3	
482.0	0.46	291.92	482.0	1.9	-1.9	0.48	0.09	-67.12	-2.5	-1.1	
567.0	0.28	347.99	567.0	2.3	-2.3	0.45	-0.21	65.96	-2.7	1.8	
652.0	0.53	293.41	652.0	2.6	-2.7	0.51	0.29	-64.21	-3.5	-1.3	
751.0	0.21	307.69	751.0	2.9	-3.3	0.33	-0.32	14.42	-4.4	-0.3	
845.0	0.40	359.77	845.0	3.4	-3.4	0.34	0.20	55.40	-3.4	3.4	
940.0	0.32	10.51	940.0	4.0	-3.4	0.11	-0.08	11.31	-3.3	4.0	
1,034.0	0.43	6.50	1,034.0	4.6	-3.3	0.12	0.12	-4.27	-4.2	3.8	
1,129.0	0.36	22.01	1,129.0	5.2	-3.1	0.13	-0.07	16.33	-3.6	4.8	
1,160.0	0.47	351.88	1,160.0	5.4	-3.1	0.78	0.35	-97.19	-5.8	2.3	
1,242.0	0.20	278.34	1,242.0	5.8	-3.3	0.56	-0.33	-89.68	-4.1	-5.2	
1,336.0	0.36	260.36	1,336.0	5.7	-3.8	0.19	0.17	-19.13	-2.7	-6.3	
1,430.0	0.30	257.89	1,430.0	5.6	-4.3	0.07	-0.06	-2.63	-3.0	-6.4	
1,524.0	2.19	315.70	1,523.9	6.9	-5.8	2.18	2.01	61.50	-8.5	-0.8	
1,618.0	2.99	307.97	1,617.8	9.7	-9.0	0.93	0.85	-8.22	-9.2	-2.6	
1,713.0	4.19	306.79	1,712.7	13.3	-13.7	1.27	1.26	-1.24	-8.6	-3.5	
1,807.0	5.67	308.92	1,806.3	18.2	-20.1	1.59	1.57	2.27	-7.4	-4.5	
1,901.0	6.95	306.04	1,899.7	24.5	-28.3	1.40	1.36	-3.06	-5.0	-6.3	
1,995.0	8.09	301.84	1,992.9	31.3	-38.5	1.35	1.21	-4.47	-1.1	-7.4	
2,089.0	9.55	300.03	2,085.8	38.7	-50.9	1.58	1.55	-1.93	3.5	-7.5	
2,183.0	11.22	300.08	2,178.3	47.2	-65.5	1.78	1.78	0.05	8.0	-7.3	
2,278.0	12.86	299.83	2,271.2	57.1	-82.7	1.73	1.73	-0.26	10.4	-7.1	
2,372.0	14.28	301.89	2,362.6	68.4	-101.6	1.60	1.51	2.19	10.0	-7.6	
2,466.0	14.45	302.17	2,453.6	80.8	-121.4	0.20	0.18	0.30	8.5	-8.2	



Final PVA



Company:	Midland	Local Co-ordinate Reference:	Well #316H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3476.0usft
Site:	Peregrine 27 Fed Com	MD Reference:	KB = 26' @ 3476.0usft
Well:	#316H	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)	
2,560.0	14.37	299.22	2,544.7	92.7	-141.5	0.79	-0.09	-3.14	7.4	-7.8	
2,654.0	14.41	297.20	2,635.7	103.8	-162.1	0.54	0.04	-2.15	6.1	-6.7	
2,748.0	14.14	297.22	2,726.8	114.4	-182.7	0.29	-0.29	0.02	4.8	-5.4	
2,843.0	14.14	297.27	2,818.9	125.0	-203.3	0.01	0.00	0.05	3.6	-4.2	
2,937.0	13.87	297.16	2,910.1	135.4	-223.6	0.29	-0.29	-0.12	2.7	-2.9	
3,031.0	14.49	297.12	3,001.3	145.9	-244.0	0.66	0.66	-0.04	1.5	-1.6	
3,126.0	15.95	298.43	3,092.9	157.5	-266.1	1.58	1.54	1.38	-1.4	-0.6	
3,220.0	16.86	298.29	3,183.1	170.2	-289.5	0.97	0.97	-0.15	-6.3	0.3	
3,314.0	16.75	298.67	3,273.1	183.1	-313.4	0.17	-0.12	0.40	-11.7	1.1	
3,409.0	17.34	300.93	3,363.9	197.0	-337.5	0.93	0.62	2.38	-17.6	1.9	
3,503.0	17.64	302.49	3,453.6	211.8	-361.5	0.59	0.32	1.66	-24.1	2.0	
3,598.0	17.21	301.58	3,544.2	226.9	-385.7	0.54	-0.45	-0.96	-30.7	1.0	
3,693.0	17.26	301.71	3,635.0	241.7	-409.6	0.07	0.05	0.14	-36.9	0.7	
3,788.0	16.86	301.00	3,725.8	256.2	-433.4	0.47	-0.42	-0.75	-42.9	-0.1	
3,884.0	16.54	301.09	3,817.7	270.4	-457.1	0.33	-0.33	0.09	-48.3	-0.3	
3,979.0	16.54	300.42	3,908.8	284.2	-480.3	0.20	0.00	-0.71	-53.4	-0.9	
4,075.0	16.72	300.67	4,000.8	298.2	-504.0	0.20	0.19	0.26	-58.6	-0.7	
4,170.0	17.37	301.48	4,091.6	312.6	-527.8	0.73	0.68	0.85	-64.6	0.0	
4,266.0	18.09	302.95	4,183.0	328.2	-552.5	0.88	0.75	1.53	-71.7	1.0	
4,361.0	17.12	302.51	4,273.6	343.7	-576.7	1.03	-1.02	-0.46	-78.6	-0.4	
4,457.0	16.37	302.29	4,365.5	358.5	-600.1	0.78	-0.78	-0.23	-84.0	-1.5	
4,551.0	16.90	303.13	4,455.6	373.1	-622.7	0.62	0.56	0.89	-89.3	-1.1	
4,646.0	16.05	303.84	4,546.7	387.9	-645.2	0.92	-0.89	0.75	-94.3	-1.1	
4,740.0	15.23	306.30	4,637.2	402.5	-665.9	1.12	-0.87	2.62	-97.9	1.2	
4,834.0	15.81	308.84	4,727.8	417.8	-685.8	0.95	0.62	2.70	-101.3	2.8	
4,929.0	17.30	308.49	4,818.8	434.7	-707.0	1.57	1.57	-0.37	-106.6	-0.9	
5,023.0	16.11	307.72	4,908.9	451.4	-728.2	1.29	-1.27	-0.82	-112.1	-5.2	



Final PVA



Company:	Midland	Local Co-ordinate Reference:	Well #316H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3476.0usft
Site:	Peregrine 27 Fed Com	MD Reference:	KB = 26' @ 3476.0usft
Well:	#316H	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)
5,118.0	16.46	307.79	5,000.1	467.7	-749.3	0.37	0.37	0.07	-116.9	-7.9
5,212.0	17.48	307.46	5,090.0	484.5	-771.0	1.09	1.09	-0.35	-122.8	-11.3
5,307.0	16.22	307.85	5,180.9	501.3	-792.8	1.33	-1.33	0.41	-128.6	-13.2
5,401.0	15.19	307.46	5,271.4	516.8	-813.0	1.10	-1.10	-0.41	-132.3	-16.7
5,464.0	14.41	306.14	5,332.3	526.5	-825.8	1.35	-1.24	-2.10	-133.5	-21.3
5,674.0	12.79	302.71	5,536.4	554.4	-866.5	0.86	-0.77	-1.63	-132.4	-32.5
6,051.0	15.18	292.75	5,902.2	596.1	-947.2	0.90	0.63	-2.64	-128.6	-49.6
6,145.0	15.07	296.52	5,993.0	606.3	-969.4	1.05	-0.12	4.01	-134.3	-38.9
6,239.0	14.56	303.17	6,083.9	618.2	-990.3	1.89	-0.54	7.07	-140.0	-23.2
6,334.0	14.24	310.22	6,175.9	632.3	-1,009.2	1.87	-0.34	7.42	-143.5	-8.5
6,428.0	13.32	308.37	6,267.2	646.5	-1,026.5	1.09	-0.98	-1.97	-143.8	-16.4
6,522.0	11.45	307.73	6,359.0	658.9	-1,042.4	1.99	-1.99	-0.68	-142.0	-20.8
6,616.0	11.46	304.63	6,451.1	669.9	-1,057.4	0.65	0.01	-3.30	-137.5	-30.4
6,711.0	11.52	303.67	6,544.2	680.6	-1,073.1	0.21	0.06	-1.01	-133.7	-34.0
6,805.0	10.77	301.48	6,636.4	690.4	-1,088.4	0.92	-0.80	-2.33	-128.5	-39.6
6,900.0	8.41	303.60	6,730.1	698.8	-1,101.8	2.51	-2.48	2.23	-123.4	-35.9
6,994.0	6.03	318.12	6,823.4	706.3	-1,110.8	3.17	-2.53	15.45	-119.0	-9.5
7,088.0	3.88	310.45	6,917.0	712.1	-1,116.5	2.39	-2.29	-8.16	-103.0	-29.5
7,183.0	1.77	296.94	7,011.9	714.8	-1,120.3	2.31	-2.22	-14.22	-75.6	-52.1
7,278.0	1.68	284.29	7,106.9	715.8	-1,122.9	0.41	-0.09	-13.32	-43.9	-61.4
7,373.0	1.95	289.14	7,201.8	716.7	-1,125.8	0.33	0.28	5.11	-30.2	-52.7
7,468.0	1.95	288.72	7,296.7	717.7	-1,128.9	0.02	0.00	-0.44	-12.2	-48.4
7,563.0	2.18	294.47	7,391.7	719.0	-1,132.0	0.33	0.24	6.05	-2.2	-44.7
7,659.0	2.18	289.88	7,487.6	720.4	-1,135.4	0.18	0.00	-4.78	13.0	-42.0
7,755.0	2.17	294.54	7,583.5	721.8	-1,138.8	0.18	-0.01	4.85	18.4	-41.5
7,850.0	0.43	78.32	7,678.5	722.6	-1,140.1	2.66	-1.83	151.35	-45.0	17.5
7,946.0	0.91	92.61	7,774.5	722.6	-1,138.9	0.53	0.50	14.89	-45.8	25.3

Company:	Midland	Local Co-ordinate Reference:	Well #316H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3476.0usft
Site:	Peregrine 27 Fed Com	MD Reference:	KB = 26' @ 3476.0usft
Well:	#316H	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)
8,042.0	0.74	81.94	7,870.5	722.7	-1,137.6	0.24	-0.18	-11.11	-53.3	14.5
8,138.0	0.46	74.17	7,966.5	722.9	-1,136.6	0.30	-0.29	-8.09	-55.9	6.9
8,233.0	0.51	48.77	8,061.5	723.2	-1,135.9	0.23	0.05	-26.74	-54.2	-17.9
8,328.0	0.46	313.16	8,156.5	723.8	-1,135.9	0.76	-0.05	-100.64	22.8	-52.6
8,422.0	0.67	314.39	8,250.5	724.4	-1,136.5	0.22	0.22	1.31	20.7	-53.1
8,516.0	1.12	285.95	8,344.5	725.1	-1,137.8	0.66	0.48	-30.26	42.1	-37.1
8,611.0	1.34	289.36	8,439.5	725.7	-1,139.7	0.24	0.23	3.59	37.8	-39.4
8,705.0	1.32	286.55	8,533.4	726.4	-1,141.8	0.07	-0.02	-2.99	37.5	-37.6
8,799.0	1.05	283.78	8,627.4	726.9	-1,143.7	0.29	-0.29	-2.95	37.3	-35.8
8,894.0	1.32	269.28	8,722.4	727.1	-1,145.6	0.42	0.28	-15.26	43.2	-25.5
8,988.0	1.71	276.23	8,816.4	727.2	-1,148.1	0.46	0.41	7.39	37.3	-30.4
9,083.0	1.48	276.38	8,911.3	727.5	-1,150.7	0.24	-0.24	0.16	34.6	-30.5
9,177.0	1.50	274.61	9,005.3	727.7	-1,153.2	0.05	0.02	-1.88	33.0	-29.5
9,271.0	1.44	252.33	9,099.3	727.5	-1,155.5	0.61	-0.06	-23.70	39.4	-15.2
9,365.0	1.27	244.63	9,193.2	726.7	-1,157.6	0.26	-0.18	-8.19	38.9	-10.0
9,460.0	1.12	216.99	9,288.2	725.5	-1,159.1	0.62	-0.16	-29.09	37.2	8.7
9,554.0	0.91	197.32	9,382.2	724.0	-1,159.9	0.43	-0.22	-20.93	30.5	20.5
9,649.0	1.02	156.98	9,477.2	722.5	-1,159.8	0.71	0.12	-42.46	8.6	34.8
9,743.0	0.83	154.52	9,571.2	721.1	-1,159.2	0.21	-0.20	-2.62	5.6	35.1
9,837.0	1.47	150.32	9,665.2	719.5	-1,158.3	0.69	0.68	-4.47	1.1	35.4
9,932.0	1.76	172.44	9,760.1	717.0	-1,157.5	0.72	0.31	23.28	11.7	32.8
10,026.0	1.82	169.19	9,854.1	714.1	-1,157.0	0.13	0.06	-3.46	6.9	33.4
10,110.0	5.27	183.88	9,937.9	708.9	-1,157.0	4.22	4.11	17.49	10.0	30.9
KOP, MD:10110.0', TVD:9937.9', N/S:708.9', E/W:-1157.0', INC:5.27										
10,151.0	6.99	185.73	9,978.7	704.6	-1,157.4	4.22	4.19	4.52	8.3	30.4
10,291.0	29.69	190.91	10,110.7	661.5	-1,164.9	16.24	16.21	3.70	-7.1	25.0

Company:	Midland	Local Co-ordinate Reference:	Well #316H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3476.0usft
Site:	Peregrine 27 Fed Com	MD Reference:	KB = 26' @ 3476.0usft
Well:	#316H	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)	
10,311.7	28.90	190.56	10,128.7	651.5	-1,166.8	3.93	-3.84	-1.71	-11.0	23.6	
FTP Crossing, MD:10311.7', TVD:10128.7', N/S:651.5', E/W:-1166.8', INC:28.90											
10,340.0	27.81	190.04	10,153.7	638.3	-1,169.2	3.93	-3.83	-1.82	-14.6	21.5	
10,434.0	30.51	185.34	10,235.7	592.9	-1,175.2	3.76	2.87	-5.00	-18.2	14.0	
10,529.0	44.15	183.15	10,311.1	535.6	-1,179.3	14.42	14.36	-2.31	-18.0	8.7	
10,623.0	46.61	181.44	10,377.1	468.8	-1,182.0	2.92	2.62	-1.82	-14.7	5.0	
10,717.0	55.43	181.30	10,436.2	395.8	-1,183.7	9.38	9.38	-0.15	-4.7	2.4	
10,811.0	69.00	182.95	10,479.9	312.9	-1,186.9	14.52	14.44	1.76	2.4	-1.5	
10,905.0	76.14	178.56	10,508.1	223.3	-1,188.0	8.80	7.60	-4.67	8.0	-3.3	
11,000.0	88.06	178.83	10,521.1	129.4	-1,185.8	12.55	12.55	0.28	13.1	-2.0	
11,094.0	89.26	179.00	10,523.3	35.4	-1,184.1	1.29	1.28	0.18	14.7	-0.9	
11,142.0	89.71	178.27	10,523.7	-12.6	-1,182.9	1.79	0.94	-1.52	14.9	-0.2	
11,224.0	90.49	177.79	10,523.6	-94.5	-1,180.1	1.12	0.95	-0.59	14.2	2.0	
11,318.0	90.91	178.53	10,522.4	-188.5	-1,177.1	0.91	0.45	0.79	12.5	4.3	
11,413.0	91.70	178.52	10,520.3	-283.4	-1,174.6	0.83	0.83	-0.01	9.7	5.9	
11,507.0	91.02	178.05	10,518.1	-377.3	-1,171.8	0.88	-0.72	-0.50	6.9	8.0	
11,602.0	89.85	177.91	10,517.3	-472.3	-1,168.5	1.24	-1.23	-0.15	5.5	10.6	
11,696.0	89.34	177.64	10,518.0	-566.2	-1,164.8	0.61	-0.54	-0.29	5.6	13.5	
11,790.0	88.67	177.28	10,519.6	-660.1	-1,160.7	0.81	-0.71	-0.38	6.6	16.9	
11,885.0	87.80	177.15	10,522.6	-754.9	-1,156.0	0.93	-0.92	-0.14	8.9	20.7	
11,979.0	87.89	178.43	10,526.1	-848.8	-1,152.4	1.36	0.10	1.36	11.9	23.6	
12,073.0	88.48	180.46	10,529.1	-942.7	-1,151.5	2.25	0.63	2.16	14.3	23.8	
12,168.0	88.66	181.18	10,531.4	-1,037.7	-1,152.9	0.78	0.19	0.76	16.0	21.6	
12,262.0	88.36	182.50	10,533.9	-1,131.6	-1,155.9	1.44	-0.32	1.40	17.9	17.8	
12,356.0	88.87	182.69	10,536.2	-1,225.5	-1,160.1	0.58	0.54	0.20	19.6	12.8	
12,450.0	88.81	182.99	10,538.1	-1,319.3	-1,164.8	0.33	-0.06	0.32	20.9	7.4	
12,545.0	87.99	183.22	10,540.7	-1,414.2	-1,169.9	0.90	-0.86	0.24	22.9	1.5	



Final PVA



Company:	Midland	Local Co-ordinate Reference:	Well #316H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3476.0usft
Site:	Peregrine 27 Fed Com	MD Reference:	KB = 26' @ 3476.0usft
Well:	#316H	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)	
12,639.0	87.88	183.03	10,544.1	-1,508.0	-1,175.1	0.23	-0.12	-0.20	25.7	-4.3	
12,733.0	88.95	182.90	10,546.7	-1,601.8	-1,179.9	1.15	1.14	-0.14	27.7	-10.0	
12,827.0	89.00	182.23	10,548.4	-1,695.7	-1,184.1	0.71	0.05	-0.71	28.8	-14.9	
12,921.0	89.43	181.13	10,549.7	-1,789.6	-1,186.9	1.26	0.46	-1.17	29.5	-18.4	
13,016.0	90.27	179.47	10,549.9	-1,884.6	-1,187.4	1.96	0.88	-1.75	29.1	-19.7	
13,110.0	90.99	178.85	10,548.9	-1,978.6	-1,186.0	1.01	0.77	-0.66	27.5	-19.1	
13,204.0	90.85	178.02	10,547.4	-2,072.6	-1,183.4	0.90	-0.15	-0.88	25.4	-17.2	
13,298.0	90.38	177.74	10,546.4	-2,166.5	-1,180.0	0.58	-0.50	-0.30	23.8	-14.5	
13,392.0	90.27	177.73	10,545.8	-2,260.4	-1,176.2	0.12	-0.12	-0.01	22.6	-11.6	
13,486.0	90.83	177.39	10,544.9	-2,354.3	-1,172.2	0.70	0.60	-0.36	21.1	-8.3	
13,581.0	90.97	176.95	10,543.4	-2,449.2	-1,167.6	0.49	0.15	-0.46	19.0	-4.4	
13,675.0	90.99	177.45	10,541.8	-2,543.1	-1,163.0	0.53	0.02	0.53	16.8	-0.6	
13,769.0	91.92	177.44	10,539.4	-2,637.0	-1,158.8	0.99	0.99	-0.01	13.8	2.9	
13,864.0	91.03	176.24	10,537.0	-2,731.8	-1,153.5	1.57	-0.94	-1.26	10.8	7.3	
13,958.0	90.35	176.98	10,535.9	-2,825.6	-1,148.0	1.07	-0.72	0.79	9.0	12.1	
14,052.0	90.52	177.85	10,535.1	-2,919.5	-1,143.7	0.94	0.18	0.93	7.7	15.6	
14,147.0	90.94	178.69	10,533.9	-3,014.5	-1,140.9	0.99	0.44	0.88	5.9	17.7	
14,241.0	91.53	178.88	10,531.9	-3,108.4	-1,138.9	0.66	0.63	0.20	3.3	19.0	
14,335.0	91.52	179.16	10,529.4	-3,202.4	-1,137.3	0.30	-0.01	0.30	0.2	19.8	
14,429.0	88.81	178.71	10,529.1	-3,296.3	-1,135.5	2.92	-2.88	-0.48	-0.7	20.8	
14,523.0	88.61	180.07	10,531.3	-3,390.3	-1,134.5	1.46	-0.21	1.45	0.8	21.1	
14,618.0	89.79	181.24	10,532.6	-3,485.3	-1,135.6	1.75	1.24	1.23	1.6	19.2	
14,712.0	89.09	182.05	10,533.5	-3,579.2	-1,138.3	1.14	-0.74	0.86	1.9	15.8	
14,806.0	89.23	182.89	10,534.9	-3,673.1	-1,142.4	0.91	0.15	0.89	2.7	11.0	
14,900.0	89.93	182.86	10,535.6	-3,767.0	-1,147.1	0.75	0.74	-0.03	2.7	5.5	
14,994.0	89.48	182.49	10,536.1	-3,860.9	-1,151.5	0.62	-0.48	-0.39	3.2	0.4	
15,089.0	89.59	182.46	10,536.8	-3,955.8	-1,155.6	0.12	0.12	-0.03	4.6	-4.5	

Company:	Midland	Local Co-ordinate Reference:	Well #316H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3476.0usft
Site:	Peregrine 27 Fed Com	MD Reference:	KB = 26' @ 3476.0usft
Well:	#316H	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)	
15,183.0	89.76	180.87	10,537.4	-4,049.8	-1,158.3	1.70	0.18	-1.69	5.7	-8.0	
15,277.0	89.85	179.73	10,537.7	-4,143.8	-1,158.8	1.22	0.10	-1.21	6.6	-9.2	
15,371.0	89.76	179.32	10,538.0	-4,237.8	-1,158.0	0.45	-0.10	-0.44	7.6	-9.2	
15,465.0	90.66	178.70	10,537.7	-4,331.8	-1,156.4	1.16	0.96	-0.66	7.8	-8.4	
15,559.0	90.58	177.85	10,536.6	-4,425.7	-1,153.6	0.91	-0.09	-0.90	7.4	-6.3	
15,654.0	90.15	177.53	10,536.0	-4,520.6	-1,149.7	0.56	-0.45	-0.34	7.4	-3.2	
15,748.0	90.15	176.98	10,535.8	-4,614.5	-1,145.2	0.59	0.00	-0.59	7.7	0.5	
15,842.0	91.33	177.13	10,534.6	-4,708.4	-1,140.4	1.27	1.26	0.16	7.1	4.6	
15,936.0	91.55	177.73	10,532.2	-4,802.3	-1,136.2	0.68	0.23	0.64	5.3	8.1	
16,030.0	91.02	177.36	10,530.1	-4,896.2	-1,132.2	0.69	-0.56	-0.39	3.8	11.3	
16,125.0	90.21	177.69	10,529.1	-4,991.1	-1,128.1	0.92	-0.85	0.35	3.4	14.7	
16,219.0	90.10	177.69	10,528.8	-5,085.0	-1,124.3	0.12	-0.12	0.00	3.7	17.7	
16,313.0	89.28	177.44	10,529.3	-5,178.9	-1,120.3	0.91	-0.87	-0.27	4.8	20.9	
16,407.0	88.33	177.25	10,531.3	-5,272.8	-1,115.9	1.03	-1.01	-0.20	7.4	24.6	
16,501.0	89.01	178.16	10,533.5	-5,366.7	-1,112.2	1.21	0.72	0.97	10.1	27.6	
16,546.0	89.09	179.37	10,534.2	-5,411.7	-1,111.2	2.69	0.18	2.69	11.2	28.2	
16,595.0	89.34	180.21	10,534.9	-5,460.7	-1,111.0	1.79	0.51	1.71	12.2	27.9	
16,690.0	89.15	180.37	10,536.1	-5,555.6	-1,111.5	0.26	-0.20	0.17	14.0	26.7	
16,784.0	89.12	180.49	10,537.6	-5,649.6	-1,112.2	0.13	-0.03	0.13	16.0	25.2	
16,878.0	89.17	180.75	10,539.0	-5,743.6	-1,113.2	0.28	0.05	0.28	18.0	23.5	
16,972.0	89.48	181.42	10,540.1	-5,837.6	-1,115.0	0.79	0.33	0.71	19.7	20.9	
17,067.0	89.76	181.61	10,540.7	-5,932.6	-1,117.5	0.36	0.29	0.20	21.0	17.7	
17,161.0	89.56	181.60	10,541.3	-6,026.5	-1,120.1	0.21	-0.21	-0.01	22.1	14.3	
17,255.0	89.68	180.93	10,541.9	-6,120.5	-1,122.2	0.72	0.13	-0.71	23.3	11.4	
17,350.0	89.65	181.06	10,542.4	-6,215.5	-1,123.9	0.14	-0.03	0.14	24.5	9.0	
17,444.0	89.40	181.13	10,543.2	-6,309.5	-1,125.7	0.28	-0.27	0.07	25.2	6.5	
17,538.0	89.20	181.22	10,544.4	-6,403.4	-1,127.6	0.23	-0.21	0.10	26.2	3.8	

Company:	Midland	Local Co-ordinate Reference:	Well #316H
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Well:	#316H	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)
17,632.0	89.34	181.04	10,545.6	-6,497.4	-1,129.4	0.24	0.15	-0.19	27.2	1.2
17,727.0	89.09	180.87	10,546.9	-6,592.4	-1,131.0	0.32	-0.26	-0.18	28.4	-1.2
17,821.0	89.17	181.43	10,548.3	-6,686.3	-1,132.9	0.60	0.09	0.60	29.7	-3.8
17,916.0	89.29	180.90	10,549.6	-6,781.3	-1,134.8	0.57	0.13	-0.56	30.8	-6.5
18,010.0	89.31	180.03	10,550.7	-6,875.3	-1,135.6	0.93	0.02	-0.93	31.8	-8.0
18,104.0	89.71	180.35	10,551.5	-6,969.3	-1,135.9	0.54	0.43	0.34	32.5	-9.1
18,199.0	89.65	179.82	10,552.1	-7,064.3	-1,136.1	0.56	-0.06	-0.56	32.9	-10.0
18,293.0	89.85	179.70	10,552.5	-7,158.3	-1,135.7	0.25	0.21	-0.13	33.2	-10.3
18,388.0	90.27	179.62	10,552.4	-7,253.3	-1,135.1	0.45	0.44	-0.08	32.9	-10.5
18,482.0	90.69	179.53	10,551.6	-7,347.3	-1,134.4	0.46	0.45	-0.10	32.0	-10.6
18,577.0	90.49	178.89	10,550.6	-7,442.3	-1,133.1	0.71	-0.21	-0.67	30.9	-10.1
18,671.0	90.69	178.42	10,549.6	-7,536.2	-1,130.9	0.54	0.21	-0.50	29.8	-8.6
18,765.0	90.52	179.08	10,548.6	-7,630.2	-1,128.8	0.73	-0.18	0.70	28.6	-7.3
18,860.0	91.25	179.47	10,547.2	-7,725.2	-1,127.6	0.87	0.77	0.41	26.7	-6.9
18,954.0	90.21	179.60	10,546.0	-7,819.2	-1,126.9	1.11	-1.11	0.14	25.0	-6.9
19,048.0	90.60	179.27	10,545.3	-7,913.2	-1,125.9	0.54	0.41	-0.35	23.9	-6.7
19,143.0	90.91	178.94	10,544.1	-8,008.2	-1,124.5	0.48	0.33	-0.35	22.2	-6.0
19,237.0	92.07	178.74	10,541.6	-8,102.1	-1,122.6	1.25	1.23	-0.21	19.3	-4.8
19,331.0	93.60	178.86	10,537.0	-8,196.0	-1,120.6	1.63	1.63	0.13	14.2	-3.6
19,426.0	93.41	177.75	10,531.2	-8,290.7	-1,117.8	1.18	-0.20	-1.17	7.9	-1.6
19,520.0	93.98	177.62	10,525.1	-8,384.5	-1,114.0	0.62	0.61	-0.14	1.4	1.5
19,579.0	90.66	179.93	10,522.7	-8,443.4	-1,112.7	6.85	-5.63	3.92	-1.3	2.2
19,673.0	89.79	180.18	10,522.3	-8,537.4	-1,112.8	0.96	-0.93	0.27	-2.1	1.4
19,767.0	88.61	180.75	10,523.7	-8,631.4	-1,113.6	1.39	-1.26	0.61	-1.2	-0.1
19,861.0	88.47	180.43	10,526.0	-8,725.3	-1,114.6	0.37	-0.15	-0.34	0.7	-1.8
19,956.0	88.56	180.16	10,528.5	-8,820.3	-1,115.0	0.30	0.09	-0.28	2.7	-3.1
20,050.0	88.33	179.92	10,531.1	-8,914.3	-1,115.1	0.35	-0.24	-0.26	4.8	-3.9

Company:	Midland	Local Co-ordinate Reference:	Well #316H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3476.0usft
Site:	Peregrine 27 Fed Com	MD Reference:	KB = 26' @ 3476.0usft
Well:	#316H	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)	
20,144.0	89.01	179.72	10,533.2	-9,008.3	-1,114.8	0.75	0.72	-0.21	6.5	-4.4	
20,238.0	89.23	178.97	10,534.7	-9,102.2	-1,113.7	0.83	0.23	-0.80	7.5	-4.1	
20,333.0	89.48	178.97	10,535.8	-9,197.2	-1,112.0	0.26	0.26	0.00	8.1	-3.1	
20,427.0	89.65	178.89	10,536.5	-9,291.2	-1,110.3	0.20	0.18	-0.09	8.4	-2.1	
20,521.0	89.40	178.24	10,537.2	-9,385.2	-1,107.9	0.74	-0.27	-0.69	8.7	-0.5	
20,615.0	89.48	177.95	10,538.2	-9,479.1	-1,104.8	0.32	0.09	-0.31	9.2	1.9	
20,709.0	89.09	177.19	10,539.3	-9,573.0	-1,100.8	0.91	-0.41	-0.81	9.9	5.1	
Last MWD Survey (MD=20709.0')											
20,820.0	89.09	177.19	10,541.1	-9,683.9	-1,095.4	0.00	0.00	0.00	11.1	9.6	
Projection to Bit (MD=20820.0')											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,110.0	9,937.9	708.9	-1,157.0	KOP, MD:10110.0', TVD:9937.9',N/S:708.9', E/W:-1157.0', INC:5.27
10,311.7	10,128.7	651.5	-1,166.8	FTP Crossing, MD:10311.7', TVD:10128.7',N/S:651.5', E/W:-1166.8', INC:28.90
20,709.0	10,539.3	-9,573.0	-1,100.8	Last MWD Survey (MD=20709.0')
20,820.0	10,541.1	-9,683.9	-1,095.4	Projection to Bit (MD=20820.0')

Checked By: _____ Approved By: _____ Date: _____

I CERTIFY THIS SURVEY TO BE TRUE AND CORRECT TO THE BEST OF MY BELIEF AND KNOWLEDGE
KAY MADDOX 08/08/2022



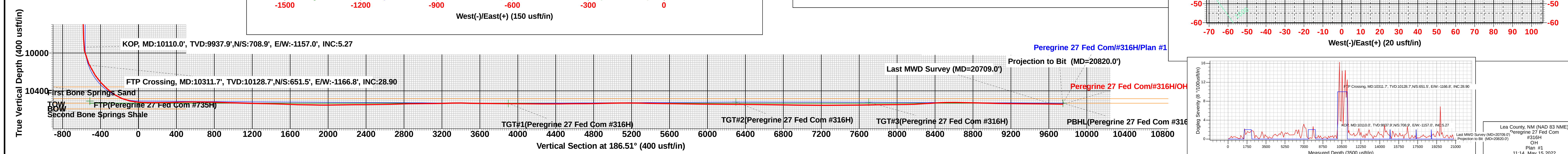
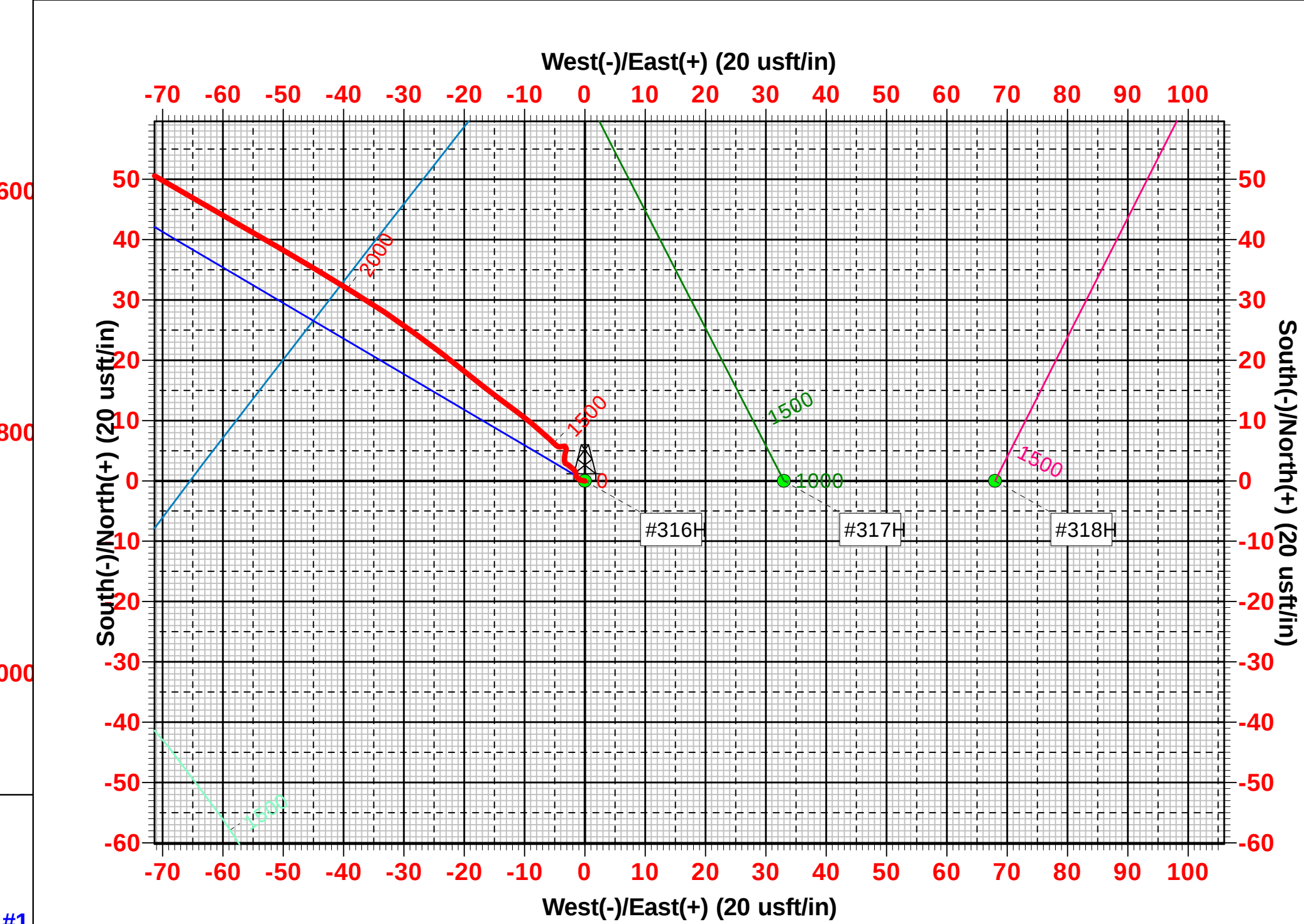
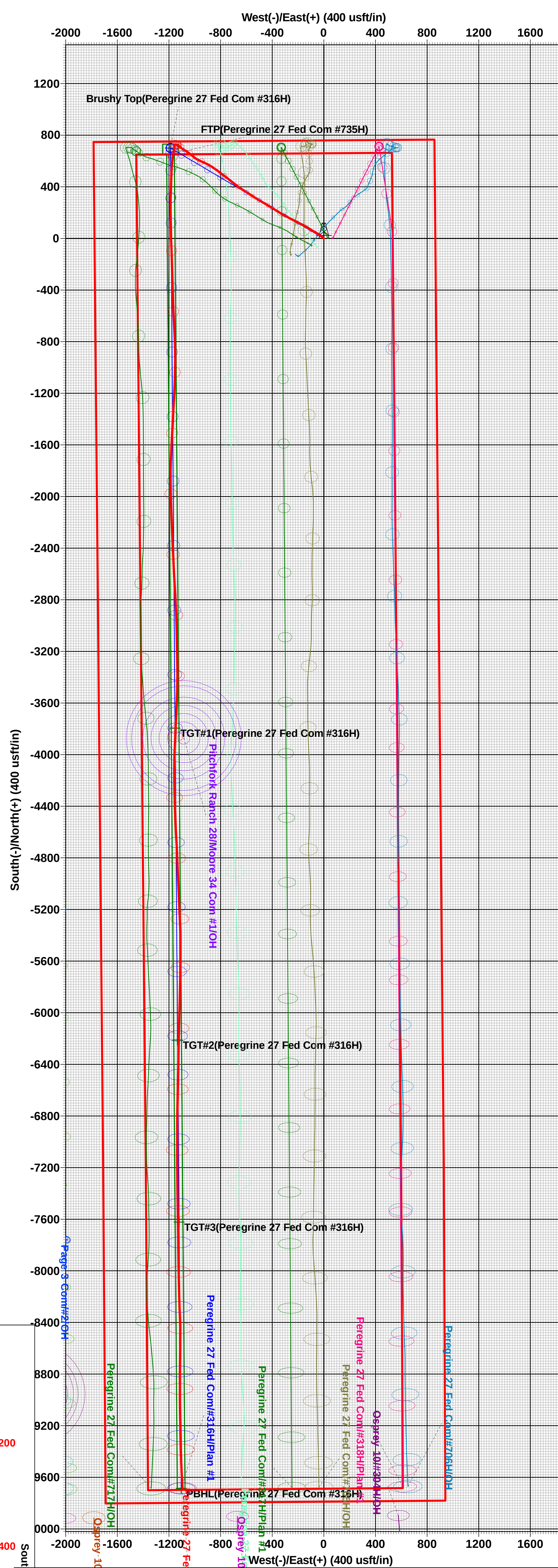
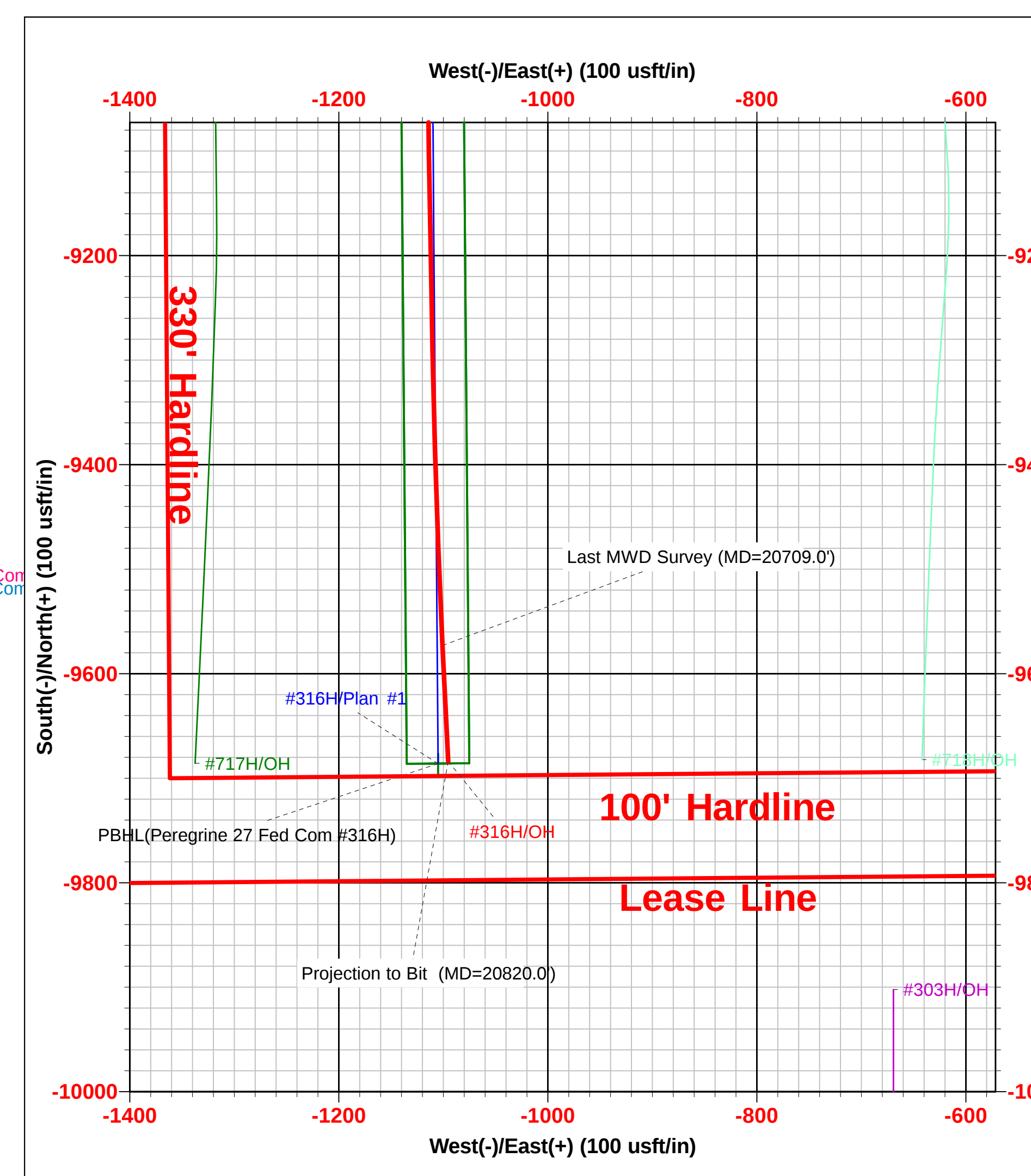
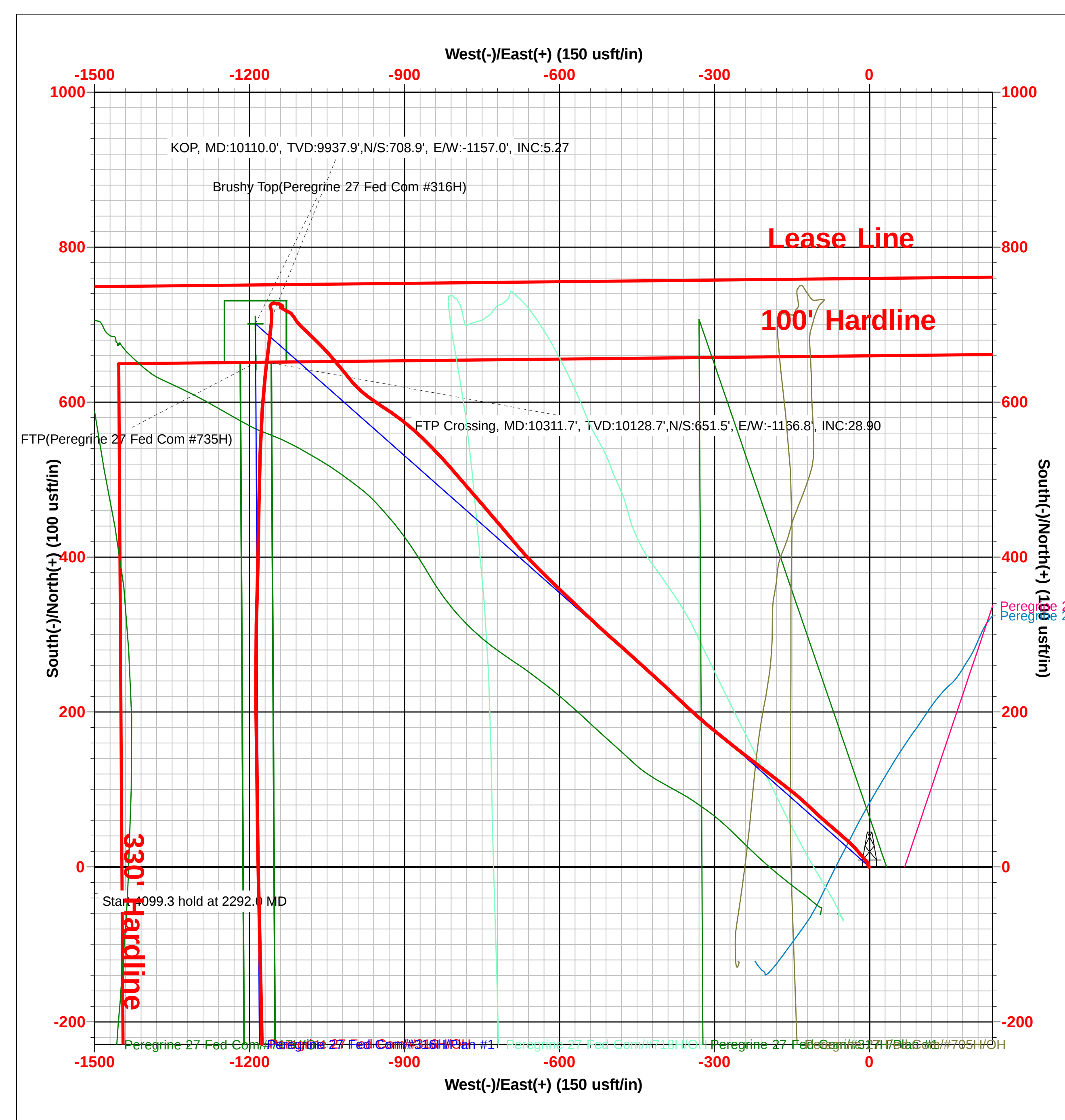
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

3450.0		
KB = 26' @ 3476.0usft		
Northing	Easting	Latitude
432677.00	813968.00	32° 11' 11.171 N
		103° 27' 7.465 W

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	1470.0	0.00	0.00	1470.0	0.0	0.0	0.00	0.00	0.0	
3	2143.7	13.47	300.53	2137.5	40.1	-67.9	2.00	300.53	-32.1	
4	7389.1	13.47	300.53	7238.5	660.9	-1120.6	0.00	0.00	-529.7	
5	8062.7	0.00	0.00	7906.0	701.0	-1188.5	2.00	180.00	-561.8	Brushy Top(Peregrine 27 Fed Com #316H)
6	10091.7	0.00	0.00	9935.0	701.0	-1188.5	0.00	0.00	-561.8	
7	10988.1	89.63	179.54	10507.9	131.7	-1183.9	10.00	179.54	3.3	
8	14913.8	89.63	179.54	10533.0	-3793.8	-1152.4	0.00	0.00	3900.0	TGT#1(Peregrine 27 Fed Com #316H)
9	14950.1	90.36	179.54	10533.0	-3830.1	-1152.1	2.00	0.00	3936.0	
10	17331.7	90.36	179.54	10518.0	-6211.6	-1132.9	0.00	0.00	6300.0	TGT#2(Peregrine 27 Fed Com #316H)
11	17354.0	89.92	179.54	10517.9	-6233.9	-1132.7	2.00	-180.00	6322.1	
12	18742.2	89.92	179.54	10520.0	-7622.0	-1121.6	0.00	0.00	7700.0	TGT#3(Peregrine 27 Fed Com #316H)
13	18751.8	89.72	179.54	10520.0	-7631.7	-1121.5	2.00	180.00	7709.6	
14	20806.3	89.72	179.54	10530.0	-9686.0	-1105.0	0.00	0.00	9748.8	PBHL(Peregrine 27 Fed Com #316H)

No casing data is available

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top(Peregrine 27 Fed Com #316H)	7906.0	701.0	-1188.5	433378.00	812779.52
FTP(Peregrine 27 Fed Com #735H)	10508.0	651.0	-1188.0	433328.00	812780.00
TG1#2(Peregrine 27 Fed Com #316H)	10518.0	-6211.6	-1132.9	426465.00	812835.08
TG1#3(Peregrine 27 Fed Com #316H)	10520.0	-7622.0	-1121.6	425055.00	812846.41
PBHL(Peregrine 27 Fed Com #316H)	10530.0	-9686.0	-1105.0	422991.00	812863.00
TG1#1(Peregrine 27 Fed Com #316H)	10533.0	-3793.8	-1152.4	428883.20	812815.64





Midland

Lea County, NM (NAD 83 NME)
Peregrine 27 Fed Com
#316H
OH

Design: OH

Final PVA

15 May, 2022





Final PVA



Company:	Midland	Local Co-ordinate Reference:	Well #316H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3476.0usft
Site:	Peregrine 27 Fed Com	MD Reference:	KB = 26' @ 3476.0usft
Well:	#316H	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	Peregrine 27 Fed Com		
Site Position:		Northing:	431,580.00 usft
From:	Map	Easting:	810,070.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 11' 0.630 N
		Longitude:	103° 27' 52.923 W
		Grid Convergence:	0.46 °

Well		#316H				
Well Position	+N/-S	0.0 usft	Northing:	432,677.00 usft	Latitude:	32° 11' 11.171 N
	+E/-W	0.0 usft	Easting:	813,968.00 usft	Longitude:	103° 27' 7.465 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,450.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	4/10/2022	6.39	59.86	47,398.25962590

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	186.51	

Survey Program	Date	5/15/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
199.0	20,820.0	Gordon MWD (OH)	EOG MWD+IFR1	MWD + IFR1	



Final PVA



Company:	Midland	Local Co-ordinate Reference:	Well #316H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3476.0usft
Site:	Peregrine 27 Fed Com	MD Reference:	KB = 26' @ 3476.0usft
Well:	#316H	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	
199.0	0.52	280.82	199.0	0.2	-0.9	0.26	0.26	0.00	-0.9	0.0	
304.0	0.58	349.59	304.0	0.8	-1.5	0.59	0.06	65.50	-1.0	1.3	
393.0	0.38	351.66	393.0	1.5	-1.6	0.23	-0.22	2.33	-1.7	1.3	
482.0	0.46	291.92	482.0	1.9	-1.9	0.48	0.09	-67.12	-2.5	-1.1	
567.0	0.28	347.99	567.0	2.3	-2.3	0.45	-0.21	65.96	-2.7	1.8	
652.0	0.53	293.41	652.0	2.6	-2.7	0.51	0.29	-64.21	-3.5	-1.3	
751.0	0.21	307.69	751.0	2.9	-3.3	0.33	-0.32	14.42	-4.4	-0.3	
845.0	0.40	359.77	845.0	3.4	-3.4	0.34	0.20	55.40	-3.4	3.4	
940.0	0.32	10.51	940.0	4.0	-3.4	0.11	-0.08	11.31	-3.3	4.0	
1,034.0	0.43	6.50	1,034.0	4.6	-3.3	0.12	0.12	-4.27	-4.2	3.8	
1,129.0	0.36	22.01	1,129.0	5.2	-3.1	0.13	-0.07	16.33	-3.6	4.8	
1,160.0	0.47	351.88	1,160.0	5.4	-3.1	0.78	0.35	-97.19	-5.8	2.3	
1,242.0	0.20	278.34	1,242.0	5.8	-3.3	0.56	-0.33	-89.68	-4.1	-5.2	
1,336.0	0.36	260.36	1,336.0	5.7	-3.8	0.19	0.17	-19.13	-2.7	-6.3	
1,430.0	0.30	257.89	1,430.0	5.6	-4.3	0.07	-0.06	-2.63	-3.0	-6.4	
1,524.0	2.19	315.70	1,523.9	6.9	-5.8	2.18	2.01	61.50	-8.5	-0.8	
1,618.0	2.99	307.97	1,617.8	9.7	-9.0	0.93	0.85	-8.22	-9.2	-2.6	
1,713.0	4.19	306.79	1,712.7	13.3	-13.7	1.27	1.26	-1.24	-8.6	-3.5	
1,807.0	5.67	308.92	1,806.3	18.2	-20.1	1.59	1.57	2.27	-7.4	-4.5	
1,901.0	6.95	306.04	1,899.7	24.5	-28.3	1.40	1.36	-3.06	-5.0	-6.3	
1,995.0	8.09	301.84	1,992.9	31.3	-38.5	1.35	1.21	-4.47	-1.1	-7.4	
2,089.0	9.55	300.03	2,085.8	38.7	-50.9	1.58	1.55	-1.93	3.5	-7.5	
2,183.0	11.22	300.08	2,178.3	47.2	-65.5	1.78	1.78	0.05	8.0	-7.3	
2,278.0	12.86	299.83	2,271.2	57.1	-82.7	1.73	1.73	-0.26	10.4	-7.1	
2,372.0	14.28	301.89	2,362.6	68.4	-101.6	1.60	1.51	2.19	10.0	-7.6	
2,466.0	14.45	302.17	2,453.6	80.8	-121.4	0.20	0.18	0.30	8.5	-8.2	



Final PVA



Company:	Midland	Local Co-ordinate Reference:	Well #316H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3476.0usft
Site:	Peregrine 27 Fed Com	MD Reference:	KB = 26' @ 3476.0usft
Well:	#316H	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)	
2,560.0	14.37	299.22	2,544.7	92.7	-141.5	0.79	-0.09	-3.14	7.4	-7.8	
2,654.0	14.41	297.20	2,635.7	103.8	-162.1	0.54	0.04	-2.15	6.1	-6.7	
2,748.0	14.14	297.22	2,726.8	114.4	-182.7	0.29	-0.29	0.02	4.8	-5.4	
2,843.0	14.14	297.27	2,818.9	125.0	-203.3	0.01	0.00	0.05	3.6	-4.2	
2,937.0	13.87	297.16	2,910.1	135.4	-223.6	0.29	-0.29	-0.12	2.7	-2.9	
3,031.0	14.49	297.12	3,001.3	145.9	-244.0	0.66	0.66	-0.04	1.5	-1.6	
3,126.0	15.95	298.43	3,092.9	157.5	-266.1	1.58	1.54	1.38	-1.4	-0.6	
3,220.0	16.86	298.29	3,183.1	170.2	-289.5	0.97	0.97	-0.15	-6.3	0.3	
3,314.0	16.75	298.67	3,273.1	183.1	-313.4	0.17	-0.12	0.40	-11.7	1.1	
3,409.0	17.34	300.93	3,363.9	197.0	-337.5	0.93	0.62	2.38	-17.6	1.9	
3,503.0	17.64	302.49	3,453.6	211.8	-361.5	0.59	0.32	1.66	-24.1	2.0	
3,598.0	17.21	301.58	3,544.2	226.9	-385.7	0.54	-0.45	-0.96	-30.7	1.0	
3,693.0	17.26	301.71	3,635.0	241.7	-409.6	0.07	0.05	0.14	-36.9	0.7	
3,788.0	16.86	301.00	3,725.8	256.2	-433.4	0.47	-0.42	-0.75	-42.9	-0.1	
3,884.0	16.54	301.09	3,817.7	270.4	-457.1	0.33	-0.33	0.09	-48.3	-0.3	
3,979.0	16.54	300.42	3,908.8	284.2	-480.3	0.20	0.00	-0.71	-53.4	-0.9	
4,075.0	16.72	300.67	4,000.8	298.2	-504.0	0.20	0.19	0.26	-58.6	-0.7	
4,170.0	17.37	301.48	4,091.6	312.6	-527.8	0.73	0.68	0.85	-64.6	0.0	
4,266.0	18.09	302.95	4,183.0	328.2	-552.5	0.88	0.75	1.53	-71.7	1.0	
4,361.0	17.12	302.51	4,273.6	343.7	-576.7	1.03	-1.02	-0.46	-78.6	-0.4	
4,457.0	16.37	302.29	4,365.5	358.5	-600.1	0.78	-0.78	-0.23	-84.0	-1.5	
4,551.0	16.90	303.13	4,455.6	373.1	-622.7	0.62	0.56	0.89	-89.3	-1.1	
4,646.0	16.05	303.84	4,546.7	387.9	-645.2	0.92	-0.89	0.75	-94.3	-1.1	
4,740.0	15.23	306.30	4,637.2	402.5	-665.9	1.12	-0.87	2.62	-97.9	1.2	
4,834.0	15.81	308.84	4,727.8	417.8	-685.8	0.95	0.62	2.70	-101.3	2.8	
4,929.0	17.30	308.49	4,818.8	434.7	-707.0	1.57	1.57	-0.37	-106.6	-0.9	
5,023.0	16.11	307.72	4,908.9	451.4	-728.2	1.29	-1.27	-0.82	-112.1	-5.2	

Company:	Midland	Local Co-ordinate Reference:	Well #316H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3476.0usft
Site:	Peregrine 27 Fed Com	MD Reference:	KB = 26' @ 3476.0usft
Well:	#316H	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)
5,118.0	16.46	307.79	5,000.1	467.7	-749.3	0.37	0.37	0.07	-116.9	-7.9
5,212.0	17.48	307.46	5,090.0	484.5	-771.0	1.09	1.09	-0.35	-122.8	-11.3
5,307.0	16.22	307.85	5,180.9	501.3	-792.8	1.33	-1.33	0.41	-128.6	-13.2
5,401.0	15.19	307.46	5,271.4	516.8	-813.0	1.10	-1.10	-0.41	-132.3	-16.7
5,464.0	14.41	306.14	5,332.3	526.5	-825.8	1.35	-1.24	-2.10	-133.5	-21.3
5,674.0	12.79	302.71	5,536.4	554.4	-866.5	0.86	-0.77	-1.63	-132.4	-32.5
6,051.0	15.18	292.75	5,902.2	596.1	-947.2	0.90	0.63	-2.64	-128.6	-49.6
6,145.0	15.07	296.52	5,993.0	606.3	-969.4	1.05	-0.12	4.01	-134.3	-38.9
6,239.0	14.56	303.17	6,083.9	618.2	-990.3	1.89	-0.54	7.07	-140.0	-23.2
6,334.0	14.24	310.22	6,175.9	632.3	-1,009.2	1.87	-0.34	7.42	-143.5	-8.5
6,428.0	13.32	308.37	6,267.2	646.5	-1,026.5	1.09	-0.98	-1.97	-143.8	-16.4
6,522.0	11.45	307.73	6,359.0	658.9	-1,042.4	1.99	-1.99	-0.68	-142.0	-20.8
6,616.0	11.46	304.63	6,451.1	669.9	-1,057.4	0.65	0.01	-3.30	-137.5	-30.4
6,711.0	11.52	303.67	6,544.2	680.6	-1,073.1	0.21	0.06	-1.01	-133.7	-34.0
6,805.0	10.77	301.48	6,636.4	690.4	-1,088.4	0.92	-0.80	-2.33	-128.5	-39.6
6,900.0	8.41	303.60	6,730.1	698.8	-1,101.8	2.51	-2.48	2.23	-123.4	-35.9
6,994.0	6.03	318.12	6,823.4	706.3	-1,110.8	3.17	-2.53	15.45	-119.0	-9.5
7,088.0	3.88	310.45	6,917.0	712.1	-1,116.5	2.39	-2.29	-8.16	-103.0	-29.5
7,183.0	1.77	296.94	7,011.9	714.8	-1,120.3	2.31	-2.22	-14.22	-75.6	-52.1
7,278.0	1.68	284.29	7,106.9	715.8	-1,122.9	0.41	-0.09	-13.32	-43.9	-61.4
7,373.0	1.95	289.14	7,201.8	716.7	-1,125.8	0.33	0.28	5.11	-30.2	-52.7
7,468.0	1.95	288.72	7,296.7	717.7	-1,128.9	0.02	0.00	-0.44	-12.2	-48.4
7,563.0	2.18	294.47	7,391.7	719.0	-1,132.0	0.33	0.24	6.05	-2.2	-44.7
7,659.0	2.18	289.88	7,487.6	720.4	-1,135.4	0.18	0.00	-4.78	13.0	-42.0
7,755.0	2.17	294.54	7,583.5	721.8	-1,138.8	0.18	-0.01	4.85	18.4	-41.5
7,850.0	0.43	78.32	7,678.5	722.6	-1,140.1	2.66	-1.83	151.35	-45.0	17.5
7,946.0	0.91	92.61	7,774.5	722.6	-1,138.9	0.53	0.50	14.89	-45.8	25.3



Final PVA



Company:	Midland	Local Co-ordinate Reference:	Well #316H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3476.0usft
Site:	Peregrine 27 Fed Com	MD Reference:	KB = 26' @ 3476.0usft
Well:	#316H	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)	
8,042.0	0.74	81.94	7,870.5	722.7	-1,137.6	0.24	-0.18	-11.11	-53.3	14.5	
8,138.0	0.46	74.17	7,966.5	722.9	-1,136.6	0.30	-0.29	-8.09	-55.9	6.9	
8,233.0	0.51	48.77	8,061.5	723.2	-1,135.9	0.23	0.05	-26.74	-54.2	-17.9	
8,328.0	0.46	313.16	8,156.5	723.8	-1,135.9	0.76	-0.05	-100.64	22.8	-52.6	
8,422.0	0.67	314.39	8,250.5	724.4	-1,136.5	0.22	0.22	1.31	20.7	-53.1	
8,516.0	1.12	285.95	8,344.5	725.1	-1,137.8	0.66	0.48	-30.26	42.1	-37.1	
8,611.0	1.34	289.36	8,439.5	725.7	-1,139.7	0.24	0.23	3.59	37.8	-39.4	
8,705.0	1.32	286.55	8,533.4	726.4	-1,141.8	0.07	-0.02	-2.99	37.5	-37.6	
8,799.0	1.05	283.78	8,627.4	726.9	-1,143.7	0.29	-0.29	-2.95	37.3	-35.8	
8,894.0	1.32	269.28	8,722.4	727.1	-1,145.6	0.42	0.28	-15.26	43.2	-25.5	
8,988.0	1.71	276.23	8,816.4	727.2	-1,148.1	0.46	0.41	7.39	37.3	-30.4	
9,083.0	1.48	276.38	8,911.3	727.5	-1,150.7	0.24	-0.24	0.16	34.6	-30.5	
9,177.0	1.50	274.61	9,005.3	727.7	-1,153.2	0.05	0.02	-1.88	33.0	-29.5	
9,271.0	1.44	252.33	9,099.3	727.5	-1,155.5	0.61	-0.06	-23.70	39.4	-15.2	
9,365.0	1.27	244.63	9,193.2	726.7	-1,157.6	0.26	-0.18	-8.19	38.9	-10.0	
9,460.0	1.12	216.99	9,288.2	725.5	-1,159.1	0.62	-0.16	-29.09	37.2	8.7	
9,554.0	0.91	197.32	9,382.2	724.0	-1,159.9	0.43	-0.22	-20.93	30.5	20.5	
9,649.0	1.02	156.98	9,477.2	722.5	-1,159.8	0.71	0.12	-42.46	8.6	34.8	
9,743.0	0.83	154.52	9,571.2	721.1	-1,159.2	0.21	-0.20	-2.62	5.6	35.1	
9,837.0	1.47	150.32	9,665.2	719.5	-1,158.3	0.69	0.68	-4.47	1.1	35.4	
9,932.0	1.76	172.44	9,760.1	717.0	-1,157.5	0.72	0.31	23.28	11.7	32.8	
10,026.0	1.82	169.19	9,854.1	714.1	-1,157.0	0.13	0.06	-3.46	6.9	33.4	
10,110.0	5.27	183.88	9,937.9	708.9	-1,157.0	4.22	4.11	17.49	10.0	30.9	
KOP, MD:10110.0', TVD:9937.9', N/S:708.9', E/W:-1157.0', INC:5.27											
10,151.0	6.99	185.73	9,978.7	704.6	-1,157.4	4.22	4.19	4.52	8.3	30.4	
10,291.0	29.69	190.91	10,110.7	661.5	-1,164.9	16.24	16.21	3.70	-7.1	25.0	



Final PVA



Company:	Midland	Local Co-ordinate Reference:	Well #316H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3476.0usft
Site:	Peregrine 27 Fed Com	MD Reference:	KB = 26' @ 3476.0usft
Well:	#316H	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)	
10,311.7	28.90	190.56	10,128.7	651.5	-1,166.8	3.93	-3.84	-1.71	-11.0	23.6	
FTP Crossing, MD:10311.7', TVD:10128.7', N/S:651.5', E/W:-1166.8', INC:28.90											
10,340.0	27.81	190.04	10,153.7	638.3	-1,169.2	3.93	-3.83	-1.82	-14.6	21.5	
10,434.0	30.51	185.34	10,235.7	592.9	-1,175.2	3.76	2.87	-5.00	-18.2	14.0	
10,529.0	44.15	183.15	10,311.1	535.6	-1,179.3	14.42	14.36	-2.31	-18.0	8.7	
10,623.0	46.61	181.44	10,377.1	468.8	-1,182.0	2.92	2.62	-1.82	-14.7	5.0	
10,717.0	55.43	181.30	10,436.2	395.8	-1,183.7	9.38	9.38	-0.15	-4.7	2.4	
10,811.0	69.00	182.95	10,479.9	312.9	-1,186.9	14.52	14.44	1.76	2.4	-1.5	
10,905.0	76.14	178.56	10,508.1	223.3	-1,188.0	8.80	7.60	-4.67	8.0	-3.3	
11,000.0	88.06	178.83	10,521.1	129.4	-1,185.8	12.55	12.55	0.28	13.1	-2.0	
11,094.0	89.26	179.00	10,523.3	35.4	-1,184.1	1.29	1.28	0.18	14.7	-0.9	
11,142.0	89.71	178.27	10,523.7	-12.6	-1,182.9	1.79	0.94	-1.52	14.9	-0.2	
11,224.0	90.49	177.79	10,523.6	-94.5	-1,180.1	1.12	0.95	-0.59	14.2	2.0	
11,318.0	90.91	178.53	10,522.4	-188.5	-1,177.1	0.91	0.45	0.79	12.5	4.3	
11,413.0	91.70	178.52	10,520.3	-283.4	-1,174.6	0.83	0.83	-0.01	9.7	5.9	
11,507.0	91.02	178.05	10,518.1	-377.3	-1,171.8	0.88	-0.72	-0.50	6.9	8.0	
11,602.0	89.85	177.91	10,517.3	-472.3	-1,168.5	1.24	-1.23	-0.15	5.5	10.6	
11,696.0	89.34	177.64	10,518.0	-566.2	-1,164.8	0.61	-0.54	-0.29	5.6	13.5	
11,790.0	88.67	177.28	10,519.6	-660.1	-1,160.7	0.81	-0.71	-0.38	6.6	16.9	
11,885.0	87.80	177.15	10,522.6	-754.9	-1,156.0	0.93	-0.92	-0.14	8.9	20.7	
11,979.0	87.89	178.43	10,526.1	-848.8	-1,152.4	1.36	0.10	1.36	11.9	23.6	
12,073.0	88.48	180.46	10,529.1	-942.7	-1,151.5	2.25	0.63	2.16	14.3	23.8	
12,168.0	88.66	181.18	10,531.4	-1,037.7	-1,152.9	0.78	0.19	0.76	16.0	21.6	
12,262.0	88.36	182.50	10,533.9	-1,131.6	-1,155.9	1.44	-0.32	1.40	17.9	17.8	
12,356.0	88.87	182.69	10,536.2	-1,225.5	-1,160.1	0.58	0.54	0.20	19.6	12.8	
12,450.0	88.81	182.99	10,538.1	-1,319.3	-1,164.8	0.33	-0.06	0.32	20.9	7.4	
12,545.0	87.99	183.22	10,540.7	-1,414.2	-1,169.9	0.90	-0.86	0.24	22.9	1.5	



Final PVA



Company:	Midland	Local Co-ordinate Reference:	Well #316H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3476.0usft
Site:	Peregrine 27 Fed Com	MD Reference:	KB = 26' @ 3476.0usft
Well:	#316H	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)	
12,639.0	87.88	183.03	10,544.1	-1,508.0	-1,175.1	0.23	-0.12	-0.20	25.7	-4.3	
12,733.0	88.95	182.90	10,546.7	-1,601.8	-1,179.9	1.15	1.14	-0.14	27.7	-10.0	
12,827.0	89.00	182.23	10,548.4	-1,695.7	-1,184.1	0.71	0.05	-0.71	28.8	-14.9	
12,921.0	89.43	181.13	10,549.7	-1,789.6	-1,186.9	1.26	0.46	-1.17	29.5	-18.4	
13,016.0	90.27	179.47	10,549.9	-1,884.6	-1,187.4	1.96	0.88	-1.75	29.1	-19.7	
13,110.0	90.99	178.85	10,548.9	-1,978.6	-1,186.0	1.01	0.77	-0.66	27.5	-19.1	
13,204.0	90.85	178.02	10,547.4	-2,072.6	-1,183.4	0.90	-0.15	-0.88	25.4	-17.2	
13,298.0	90.38	177.74	10,546.4	-2,166.5	-1,180.0	0.58	-0.50	-0.30	23.8	-14.5	
13,392.0	90.27	177.73	10,545.8	-2,260.4	-1,176.2	0.12	-0.12	-0.01	22.6	-11.6	
13,486.0	90.83	177.39	10,544.9	-2,354.3	-1,172.2	0.70	0.60	-0.36	21.1	-8.3	
13,581.0	90.97	176.95	10,543.4	-2,449.2	-1,167.6	0.49	0.15	-0.46	19.0	-4.4	
13,675.0	90.99	177.45	10,541.8	-2,543.1	-1,163.0	0.53	0.02	0.53	16.8	-0.6	
13,769.0	91.92	177.44	10,539.4	-2,637.0	-1,158.8	0.99	0.99	-0.01	13.8	2.9	
13,864.0	91.03	176.24	10,537.0	-2,731.8	-1,153.5	1.57	-0.94	-1.26	10.8	7.3	
13,958.0	90.35	176.98	10,535.9	-2,825.6	-1,148.0	1.07	-0.72	0.79	9.0	12.1	
14,052.0	90.52	177.85	10,535.1	-2,919.5	-1,143.7	0.94	0.18	0.93	7.7	15.6	
14,147.0	90.94	178.69	10,533.9	-3,014.5	-1,140.9	0.99	0.44	0.88	5.9	17.7	
14,241.0	91.53	178.88	10,531.9	-3,108.4	-1,138.9	0.66	0.63	0.20	3.3	19.0	
14,335.0	91.52	179.16	10,529.4	-3,202.4	-1,137.3	0.30	-0.01	0.30	0.2	19.8	
14,429.0	88.81	178.71	10,529.1	-3,296.3	-1,135.5	2.92	-2.88	-0.48	-0.7	20.8	
14,523.0	88.61	180.07	10,531.3	-3,390.3	-1,134.5	1.46	-0.21	1.45	0.8	21.1	
14,618.0	89.79	181.24	10,532.6	-3,485.3	-1,135.6	1.75	1.24	1.23	1.6	19.2	
14,712.0	89.09	182.05	10,533.5	-3,579.2	-1,138.3	1.14	-0.74	0.86	1.9	15.8	
14,806.0	89.23	182.89	10,534.9	-3,673.1	-1,142.4	0.91	0.15	0.89	2.7	11.0	
14,900.0	89.93	182.86	10,535.6	-3,767.0	-1,147.1	0.75	0.74	-0.03	2.7	5.5	
14,994.0	89.48	182.49	10,536.1	-3,860.9	-1,151.5	0.62	-0.48	-0.39	3.2	0.4	
15,089.0	89.59	182.46	10,536.8	-3,955.8	-1,155.6	0.12	0.12	-0.03	4.6	-4.5	

Company:	Midland	Local Co-ordinate Reference:	Well #316H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3476.0usft
Site:	Peregrine 27 Fed Com	MD Reference:	KB = 26' @ 3476.0usft
Well:	#316H	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)	
15,183.0	89.76	180.87	10,537.4	-4,049.8	-1,158.3	1.70	0.18	-1.69	5.7	-8.0	
15,277.0	89.85	179.73	10,537.7	-4,143.8	-1,158.8	1.22	0.10	-1.21	6.6	-9.2	
15,371.0	89.76	179.32	10,538.0	-4,237.8	-1,158.0	0.45	-0.10	-0.44	7.6	-9.2	
15,465.0	90.66	178.70	10,537.7	-4,331.8	-1,156.4	1.16	0.96	-0.66	7.8	-8.4	
15,559.0	90.58	177.85	10,536.6	-4,425.7	-1,153.6	0.91	-0.09	-0.90	7.4	-6.3	
15,654.0	90.15	177.53	10,536.0	-4,520.6	-1,149.7	0.56	-0.45	-0.34	7.4	-3.2	
15,748.0	90.15	176.98	10,535.8	-4,614.5	-1,145.2	0.59	0.00	-0.59	7.7	0.5	
15,842.0	91.33	177.13	10,534.6	-4,708.4	-1,140.4	1.27	1.26	0.16	7.1	4.6	
15,936.0	91.55	177.73	10,532.2	-4,802.3	-1,136.2	0.68	0.23	0.64	5.3	8.1	
16,030.0	91.02	177.36	10,530.1	-4,896.2	-1,132.2	0.69	-0.56	-0.39	3.8	11.3	
16,125.0	90.21	177.69	10,529.1	-4,991.1	-1,128.1	0.92	-0.85	0.35	3.4	14.7	
16,219.0	90.10	177.69	10,528.8	-5,085.0	-1,124.3	0.12	-0.12	0.00	3.7	17.7	
16,313.0	89.28	177.44	10,529.3	-5,178.9	-1,120.3	0.91	-0.87	-0.27	4.8	20.9	
16,407.0	88.33	177.25	10,531.3	-5,272.8	-1,115.9	1.03	-1.01	-0.20	7.4	24.6	
16,501.0	89.01	178.16	10,533.5	-5,366.7	-1,112.2	1.21	0.72	0.97	10.1	27.6	
16,546.0	89.09	179.37	10,534.2	-5,411.7	-1,111.2	2.69	0.18	2.69	11.2	28.2	
16,595.0	89.34	180.21	10,534.9	-5,460.7	-1,111.0	1.79	0.51	1.71	12.2	27.9	
16,690.0	89.15	180.37	10,536.1	-5,555.6	-1,111.5	0.26	-0.20	0.17	14.0	26.7	
16,784.0	89.12	180.49	10,537.6	-5,649.6	-1,112.2	0.13	-0.03	0.13	16.0	25.2	
16,878.0	89.17	180.75	10,539.0	-5,743.6	-1,113.2	0.28	0.05	0.28	18.0	23.5	
16,972.0	89.48	181.42	10,540.1	-5,837.6	-1,115.0	0.79	0.33	0.71	19.7	20.9	
17,067.0	89.76	181.61	10,540.7	-5,932.6	-1,117.5	0.36	0.29	0.20	21.0	17.7	
17,161.0	89.56	181.60	10,541.3	-6,026.5	-1,120.1	0.21	-0.21	-0.01	22.1	14.3	
17,255.0	89.68	180.93	10,541.9	-6,120.5	-1,122.2	0.72	0.13	-0.71	23.3	11.4	
17,350.0	89.65	181.06	10,542.4	-6,215.5	-1,123.9	0.14	-0.03	0.14	24.5	9.0	
17,444.0	89.40	181.13	10,543.2	-6,309.5	-1,125.7	0.28	-0.27	0.07	25.2	6.5	
17,538.0	89.20	181.22	10,544.4	-6,403.4	-1,127.6	0.23	-0.21	0.10	26.2	3.8	



Final PVA



Company:	Midland	Local Co-ordinate Reference:	Well #316H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3476.0usft
Site:	Peregrine 27 Fed Com	MD Reference:	KB = 26' @ 3476.0usft
Well:	#316H	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)
17,632.0	89.34	181.04	10,545.6	-6,497.4	-1,129.4	0.24	0.15	-0.19	27.2	1.2
17,727.0	89.09	180.87	10,546.9	-6,592.4	-1,131.0	0.32	-0.26	-0.18	28.4	-1.2
17,821.0	89.17	181.43	10,548.3	-6,686.3	-1,132.9	0.60	0.09	0.60	29.7	-3.8
17,916.0	89.29	180.90	10,549.6	-6,781.3	-1,134.8	0.57	0.13	-0.56	30.8	-6.5
18,010.0	89.31	180.03	10,550.7	-6,875.3	-1,135.6	0.93	0.02	-0.93	31.8	-8.0
18,104.0	89.71	180.35	10,551.5	-6,969.3	-1,135.9	0.54	0.43	0.34	32.5	-9.1
18,199.0	89.65	179.82	10,552.1	-7,064.3	-1,136.1	0.56	-0.06	-0.56	32.9	-10.0
18,293.0	89.85	179.70	10,552.5	-7,158.3	-1,135.7	0.25	0.21	-0.13	33.2	-10.3
18,388.0	90.27	179.62	10,552.4	-7,253.3	-1,135.1	0.45	0.44	-0.08	32.9	-10.5
18,482.0	90.69	179.53	10,551.6	-7,347.3	-1,134.4	0.46	0.45	-0.10	32.0	-10.6
18,577.0	90.49	178.89	10,550.6	-7,442.3	-1,133.1	0.71	-0.21	-0.67	30.9	-10.1
18,671.0	90.69	178.42	10,549.6	-7,536.2	-1,130.9	0.54	0.21	-0.50	29.8	-8.6
18,765.0	90.52	179.08	10,548.6	-7,630.2	-1,128.8	0.73	-0.18	0.70	28.6	-7.3
18,860.0	91.25	179.47	10,547.2	-7,725.2	-1,127.6	0.87	0.77	0.41	26.7	-6.9
18,954.0	90.21	179.60	10,546.0	-7,819.2	-1,126.9	1.11	-1.11	0.14	25.0	-6.9
19,048.0	90.60	179.27	10,545.3	-7,913.2	-1,125.9	0.54	0.41	-0.35	23.9	-6.7
19,143.0	90.91	178.94	10,544.1	-8,008.2	-1,124.5	0.48	0.33	-0.35	22.2	-6.0
19,237.0	92.07	178.74	10,541.6	-8,102.1	-1,122.6	1.25	1.23	-0.21	19.3	-4.8
19,331.0	93.60	178.86	10,537.0	-8,196.0	-1,120.6	1.63	1.63	0.13	14.2	-3.6
19,426.0	93.41	177.75	10,531.2	-8,290.7	-1,117.8	1.18	-0.20	-1.17	7.9	-1.6
19,520.0	93.98	177.62	10,525.1	-8,384.5	-1,114.0	0.62	0.61	-0.14	1.4	1.5
19,579.0	90.66	179.93	10,522.7	-8,443.4	-1,112.7	6.85	-5.63	3.92	-1.3	2.2
19,673.0	89.79	180.18	10,522.3	-8,537.4	-1,112.8	0.96	-0.93	0.27	-2.1	1.4
19,767.0	88.61	180.75	10,523.7	-8,631.4	-1,113.6	1.39	-1.26	0.61	-1.2	-0.1
19,861.0	88.47	180.43	10,526.0	-8,725.3	-1,114.6	0.37	-0.15	-0.34	0.7	-1.8
19,956.0	88.56	180.16	10,528.5	-8,820.3	-1,115.0	0.30	0.09	-0.28	2.7	-3.1
20,050.0	88.33	179.92	10,531.1	-8,914.3	-1,115.1	0.35	-0.24	-0.26	4.8	-3.9

Company:	Midland	Local Co-ordinate Reference:	Well #316H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3476.0usft
Site:	Peregrine 27 Fed Com	MD Reference:	KB = 26' @ 3476.0usft
Well:	#316H	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)	
20,144.0	89.01	179.72	10,533.2	-9,008.3	-1,114.8	0.75	0.72	-0.21	6.5	-4.4	
20,238.0	89.23	178.97	10,534.7	-9,102.2	-1,113.7	0.83	0.23	-0.80	7.5	-4.1	
20,333.0	89.48	178.97	10,535.8	-9,197.2	-1,112.0	0.26	0.26	0.00	8.1	-3.1	
20,427.0	89.65	178.89	10,536.5	-9,291.2	-1,110.3	0.20	0.18	-0.09	8.4	-2.1	
20,521.0	89.40	178.24	10,537.2	-9,385.2	-1,107.9	0.74	-0.27	-0.69	8.7	-0.5	
20,615.0	89.48	177.95	10,538.2	-9,479.1	-1,104.8	0.32	0.09	-0.31	9.2	1.9	
20,709.0	89.09	177.19	10,539.3	-9,573.0	-1,100.8	0.91	-0.41	-0.81	9.9	5.1	
Last MWD Survey (MD=20709.0')											
20,820.0	89.09	177.19	10,541.1	-9,683.9	-1,095.4	0.00	0.00	0.00	11.1	9.6	
Projection to Bit (MD=20820.0')											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,110.0	9,937.9	708.9	-1,157.0	KOP, MD:10110.0', TVD:9937.9',N/S:708.9', E/W:-1157.0', INC:5.27
10,311.7	10,128.7	651.5	-1,166.8	FTP Crossing, MD:10311.7', TVD:10128.7',N/S:651.5', E/W:-1166.8', INC:28.90
20,709.0	10,539.3	-9,573.0	-1,100.8	Last MWD Survey (MD=20709.0')
20,820.0	10,541.1	-9,683.9	-1,095.4	Projection to Bit (MD=20820.0')

Checked By: _____ Approved By: _____ Date: _____

I CERTIFY THIS SURVEY TO BE TRUE AND CORRECT TO THE BEST OF MY BELIEF AND KNOWLEDGE
KAY MADDOX 08/08/2022

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 PEREGRINE 27 FEDERAL COM		
								6. Well Number: 316H		
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 RED HILLS; BONE SPRING, EAST				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	I	27	24S	34E		1879	SOUTH	864	EAST	LEA
BH:	G	3	25S	34E		2519	NORTH	2037	EAST	LEA
13. Date Spudded 03/23/2022	14. Date T.D. Reached 05/10/2022		15. Date Rig Released 05/12/2022		16. Date Completed (Ready to Produce) 08/07/2022			17. Elevations (DF and RKB, RT, GR, etc.) 3449' GR		
18. Total Measured Depth of Well MD 20,820' TVD 10,541'			19. Plug Back Measured Depth MD 20,794' TVD 10,541'		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 10,783 - 20,794'										
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		1214'		16"		530 CL C/CIRC		
9 5/8"		40# ECP 110		5517'		12 1/4"		1680 CL C/CIRC		
5 1/2"		20# HCP 110		20,800'		8 3/4"		2180 CL C & H TOC 800'		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) 10,783 - 20,794' 3 1/8" 2145 shots						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						10,783 - 20,794'		FRAC W/25,312,441 lbs proppant, 413,069 bbls load fld		
28. PRODUCTION										
Date First Production 08/07/2022		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 08/14/2022	Hours Tested 24	Choke Size 86	Prod'n For Test Period	Oil - Bbl 3132	Gas - MCF 4695	Water - Bbl. 9035	Gas - Oil Ratio 1499			
Flow Tubing Press.	Casing Pressure 719	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (<i>Corr.</i>) 44				
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>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</i> Printed Signature Kay Maddox Name Kay Maddox Title Senior Regulatory Specialist Date 08/17/2022 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 1055'	T. Canyon Brushy 7995'	T. Ojo Alamo	T. Penn A "
T. Salt 1660'	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt 5165'	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 9295'	T. Entrada	
T. Wolfcamp	T.	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 134949

ACKNOWLEDGMENTS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 134949
	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 134949

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 134949
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	None	10/17/2025