

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 05/26/2022	
⁴ API Number 30 - 025-47232	⁵ Pool Name TRISTE DRAW; BONE SPRING		⁶ Pool Code 96603
⁷ Property Code 331837	⁸ Property Name MODELO 3 FEDERAL COM		⁹ Well Number 529H

II. ¹⁰ Surface Location

Ul or lot no. O	Section 3	Township 24S	Range 32E	Lot Idn	Feet from the 779'	North/South Line SOUTH	Feet from the 1975'	East/West line EAST	County LEA
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¹¹ Bottom Hole Location

UL or lot no. F	Section 15	Township 24S	Range 32E	Lot Idn	Feet from the 2527'	North/South line NORTH	Feet from the 1874'	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 12/23/2021	²² Ready Date 05/26/2022	²³ TD 18,667'	²⁴ PBTD 18,641'	²⁵ Perforations 11,156 - 18,641'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	³⁰ Sacks Cement
17 1/2"		13 3/8"		1261'	950 SXS CL C/CIRC
12 1/4"		9 5/8"		5071'	1320 SXS CL C/CIRC
8 3/4"		5 1/2"		18,649'	2770 CL C&H TOC 2530' CBL

V. Well Test Data

³¹ Date New Oil 05/26/2022	³² Gas Delivery Date 05/26/2022	³³ Test Date 06/04/2022	³⁴ Test Length 24 HRS	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 1001
³⁷ Choke Size	³⁸ Oil 1192	³⁹ Water 5006	⁴⁰ Gas 1922		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	
Printed name: Kay Maddox		Approved by: PATRICIA MARTINEZ	
Title: SENIOR REGULATORY SPECIALIST		Title: PETROLEUM SPECIALIST	
E-mail Address: kay_maddox@eogresources.com		Approval Date: 8/28/2025	
Date: 06/21/2022	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 30-025-47232		² Pool Code 96603	³ Pool Name TRISTE DRAW; BONE SPRING
⁴ Property Code 331837	⁵ Property Name MODELO 3 FED COM		⁶ Well Number 529H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.		⁹ Elevation 3645'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	3	24-S	32-E	-	779'	SOUTH	1975'	EAST	LEA

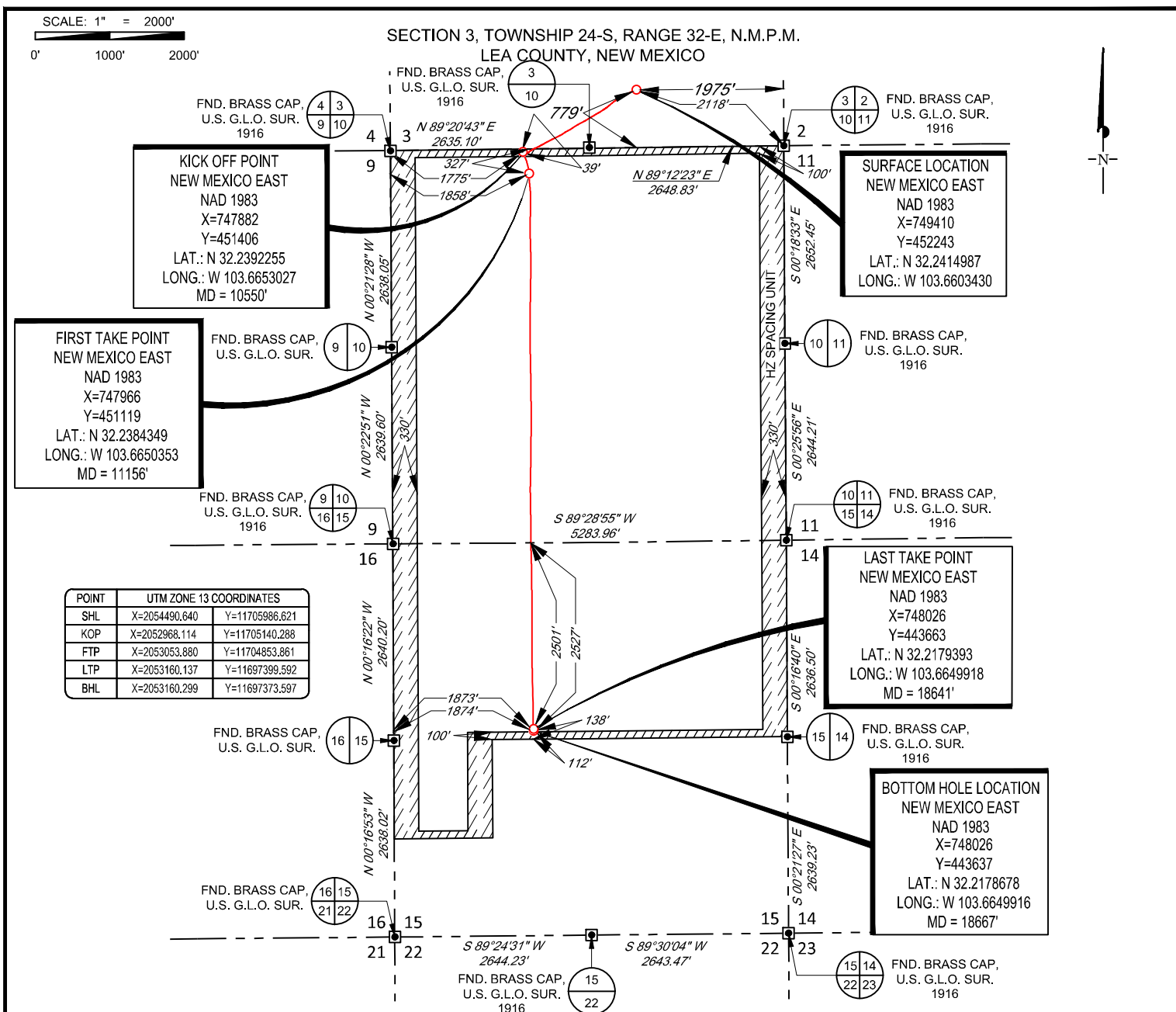
¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	15	24-S	32-E	-	2527'	NORTH	1874'	WEST	LEA

¹² Dedicated Acres 1000.00	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.

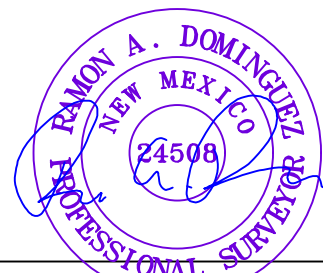
¹⁶ SURFACE LOCATION NEW MEXICO EAST NAD 1927 X=708226 Y=452184 NAD 1983 X=749410 Y=452243 LAT.: N 32.2413752 LONG.: W 103.6598617 LAT.: N 32.2414987 LONG.: W 103.6603430		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <u>Kay Maddox</u> Date: <u>06/08/2022</u> Printed Name: <u>KAY MADDOX</u> E-mail Address: <u>KAY_MADDOX@EOGRESOURCES.COM</u>	
		KICK OFF POINT NEW MEXICO EAST NAD 1927 X=706698 Y=451347 NAD 1983 X=747882 Y=451406 LAT.: N 32.2391020 LONG.: W 103.6648214 LAT.: N 32.2392255 LONG.: W 103.6650327 MD = 10550'	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief. Date of Survey: <u>12/17/2021</u> Signature and Seal of Professional Surveyor: <u>RAMON A. DOMINGUEZ</u> Certificate Number: <u>24508</u>
		FIRST TAKE POINT NEW MEXICO EAST NAD 1927 X=706782 Y=451060 NAD 1983 X=747966 Y=451119 LAT.: N 32.2383114 LONG.: W 103.6645540 LAT.: N 32.2384349 LONG.: W 103.6650353 MD = 11158'	
		LAST TAKE POINT NEW MEXICO EAST NAD 1927 X=706842 Y=443604 NAD 1983 X=748026 Y=443663 LAT.: N 32.2178156 LONG.: W 103.6645117 LAT.: N 32.2179393 LONG.: W 103.6649918 MD = 18641'	
		BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 X=706842 Y=443578 NAD 1983 X=748026 Y=443637 LAT.: N 32.2177441 LONG.: W 103.6645114 LAT.: N 32.2178678 LONG.: W 103.6649916 MD = 18667'	



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

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

eog resources, inc.



Ramon A. Dominguez, P.S. No. 24508
MAY 6, 2022

MODELO 3 FED COM 529H AS-DRILLED	REVISION:	NOTES:
DATE: 05/05/2022		1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
FILE:AD_MODELO_3_FED_COM_529H		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.
DRAWN BY: A.V.F.		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.
SHEET: 2 OF 2		



Midland

Lea County, NM (NAD 83 NME)

Modelo 3 Fed Com

#529H

OH

Design: OH

Final PVA

27 January, 2022



Final PVA

Company: Midland Project: Lea County, NM (NAD 83 NME) Site: Modelo 3 Fed Com Well: #529H Wellbore: OH Design: OH	Local Co-ordinate Reference: Well #529H TVD Reference: kb = 26' @ 3671.0usft MD Reference: kb = 26' @ 3671.0usft North Reference: Grid Survey Calculation Method: Minimum Curvature Database: PEDM
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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	Modelo 3 Fed Com		
Site Position:		Northing:	451,998.00 usft
From: Map		Easting:	750,134.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 14' 26.929 N
		Longitude:	103° 39' 28.822 W
		Grid Convergence:	0.36 °

Well	#529H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			usft
			Latitude:
			32° 14' 29.399 N
			Longitude:
			103° 39' 37.233 W
			Ground Level:
			3,645.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2020	11/15/2021	6.54
			Dip Angle (°)
			59.89
			Field Strength (nT)
			47,450.19521580

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)
	0.0	0.0	0.0
			Direction (°)
			189.16

Survey Program	Date	1/27/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
14.0	18,667.0	MS MWD (OH)	MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + Sag + FDIR Correction



Final PVA

Company: Midland
Project: Lea County, NM (NAD 83 NME)
Site: Modelo 3 Fed Com
Well: #529H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #529H
TVD Reference: kb = 26' @ 3671.0usft
MD Reference: kb = 26' @ 3671.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: PEDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	
14.0	0.07	27.02	14.0	0.0	0.0	0.50	0.50	0.00	0.0	0.0	
29.0	0.14	26.97	29.0	0.0	0.0	0.47	0.47	-0.33	0.0	0.0	
43.0	0.22	26.91	43.0	0.1	0.0	0.57	0.57	-0.43	-0.1	0.0	
57.0	0.29	26.86	57.0	0.1	0.1	0.50	0.50	-0.36	-0.1	0.0	
72.0	0.36	26.80	72.0	0.2	0.1	0.47	0.47	-0.40	-0.2	0.0	
86.0	0.43	26.75	86.0	0.3	0.1	0.50	0.50	-0.36	-0.3	0.0	
100.0	0.50	26.69	100.0	0.4	0.2	0.50	0.50	-0.43	-0.4	0.0	
114.0	0.57	26.64	114.0	0.5	0.3	0.50	0.50	-0.36	-0.6	0.0	
129.0	0.64	26.58	129.0	0.6	0.3	0.47	0.47	-0.40	-0.7	0.0	
143.0	0.72	26.52	143.0	0.8	0.4	0.57	0.57	-0.43	-0.9	0.0	
157.0	0.79	26.47	157.0	1.0	0.5	0.50	0.50	-0.36	-1.1	0.0	
172.0	0.86	26.41	172.0	1.2	0.6	0.47	0.47	-0.40	-1.3	0.0	
186.0	0.93	26.36	186.0	1.4	0.7	0.50	0.50	-0.36	-1.5	0.0	
201.0	0.93	24.83	201.0	1.6	0.8	0.17	0.00	-10.20	-1.8	0.0	
215.0	0.94	23.32	215.0	1.8	0.9	0.19	0.07	-10.79	-2.0	-0.1	
230.0	0.95	21.82	230.0	2.0	1.0	0.18	0.07	-10.00	-2.2	-0.2	
244.0	0.96	20.35	244.0	2.2	1.1	0.19	0.07	-10.50	-2.5	-0.2	
259.0	0.97	18.89	259.0	2.5	1.1	0.18	0.07	-9.73	-2.7	-0.3	
273.0	0.98	17.45	273.0	2.7	1.2	0.19	0.07	-10.29	-2.9	-0.4	
288.0	0.99	16.04	288.0	2.9	1.3	0.17	0.07	-9.40	-3.2	-0.4	
302.0	1.00	14.64	302.0	3.2	1.4	0.19	0.07	-10.00	-3.4	-0.5	
316.0	0.99	14.87	316.0	3.4	1.4	0.08	-0.07	1.64	-3.7	-0.5	
331.0	0.97	15.15	331.0	3.7	1.5	0.14	-0.13	1.87	-3.9	-0.5	
345.0	0.96	15.47	345.0	3.9	1.5	0.08	-0.07	2.29	-4.2	-0.5	
359.0	0.94	15.81	359.0	4.1	1.6	0.15	-0.14	2.43	-4.4	-0.4	
374.0	0.92	16.15	374.0	4.3	1.7	0.14	-0.13	2.27	-4.6	-0.4	



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
388.0	0.91	16.51	388.0	4.6	1.7	0.08	-0.07	2.57	-4.9	-0.4
402.0	0.89	16.86	402.0	4.8	1.8	0.15	-0.14	2.50	-5.1	-0.3
417.0	0.87	17.20	417.0	5.0	1.9	0.14	-0.13	2.27	-5.3	-0.3
431.0	0.86	17.53	431.0	5.2	1.9	0.08	-0.07	2.36	-5.5	-0.3
445.0	0.84	17.83	445.0	5.4	2.0	0.15	-0.14	2.14	-5.7	-0.2
460.0	0.83	18.08	460.0	5.6	2.1	0.07	-0.07	1.67	-6.0	-0.2
474.0	0.81	18.26	474.0	5.8	2.1	0.14	-0.14	1.29	-6.2	-0.2
488.0	0.81	17.47	488.0	6.0	2.2	0.08	0.00	-5.64	-6.4	-0.3
503.0	0.81	16.67	503.0	6.2	2.2	0.08	0.00	-5.33	-6.6	-0.4
517.0	0.81	15.85	516.9	6.4	2.3	0.08	0.00	-5.86	-6.8	-0.5
531.0	0.82	15.03	530.9	6.6	2.4	0.11	0.07	-5.86	-6.9	-0.6
546.0	0.82	14.20	545.9	6.8	2.4	0.08	0.00	-5.53	-7.1	-0.7
560.0	0.82	13.36	559.9	7.0	2.5	0.09	0.00	-6.00	-7.3	-0.8
574.0	0.80	12.49	573.9	7.2	2.5	0.17	-0.14	-6.21	-7.5	-0.9
588.0	0.77	11.56	587.9	7.3	2.5	0.23	-0.21	-6.64	-7.7	-1.0
602.0	0.75	10.57	601.9	7.5	2.6	0.17	-0.14	-7.07	-7.9	-1.2
616.0	0.73	9.51	615.9	7.7	2.6	0.17	-0.14	-7.57	-8.0	-1.3
630.0	0.71	8.39	629.9	7.9	2.6	0.17	-0.14	-8.00	-8.2	-1.5
644.0	0.69	7.18	643.9	8.0	2.7	0.18	-0.14	-8.64	-8.3	-1.6
658.0	0.68	5.89	657.9	8.2	2.7	0.13	-0.07	-9.21	-8.4	-1.8
671.0	0.65	3.40	670.9	8.4	2.7	0.32	-0.23	-19.15	-8.5	-2.2
685.0	0.62	0.69	684.9	8.5	2.7	0.30	-0.21	-19.36	-8.5	-2.6
698.0	0.60	357.74	697.9	8.7	2.7	0.29	-0.15	-22.69	-8.5	-3.0
712.0	0.58	354.54	711.9	8.8	2.7	0.28	-0.14	-22.86	-8.5	-3.5
725.0	0.56	351.08	724.9	8.9	2.7	0.31	-0.15	-26.62	-8.4	-4.0
739.0	0.54	347.37	738.9	9.1	2.6	0.29	-0.14	-26.50	-8.3	-4.6
752.0	0.52	343.40	751.9	9.2	2.6	0.32	-0.15	-30.54	-8.0	-5.1



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)	
766.0	0.53	340.45	765.9	9.3	2.6	0.21	0.07	-21.07	-7.9	-5.5	
779.0	0.53	337.53	778.9	9.4	2.5	0.21	0.00	-22.46	-7.7	-5.9	
793.0	0.54	334.63	792.9	9.5	2.5	0.21	0.07	-20.71	-7.5	-6.3	
806.0	0.54	331.78	805.9	9.6	2.4	0.21	0.00	-21.92	-7.3	-6.7	
820.0	0.55	328.99	819.9	9.8	2.4	0.20	0.07	-19.93	-7.1	-7.0	
833.0	0.56	326.26	832.9	9.9	2.3	0.22	0.08	-21.00	-6.9	-7.4	
847.0	0.57	323.62	846.9	10.0	2.2	0.20	0.07	-18.86	-6.7	-7.7	
860.0	0.57	322.37	859.9	10.1	2.1	0.10	0.00	-9.62	-6.7	-7.8	
874.0	0.57	321.11	873.9	10.2	2.0	0.09	0.00	-9.00	-6.6	-8.0	
887.0	0.57	319.84	886.9	10.3	2.0	0.10	0.00	-9.77	-6.6	-8.1	
901.0	0.58	318.57	900.9	10.4	1.9	0.12	0.07	-9.07	-6.6	-8.3	
914.0	0.58	317.30	913.9	10.5	1.8	0.10	0.00	-9.77	-6.5	-8.4	
928.0	0.58	316.03	927.9	10.6	1.7	0.09	0.00	-9.07	-6.5	-8.6	
941.0	0.59	314.76	940.9	10.7	1.6	0.13	0.08	-9.77	-6.4	-8.7	
954.0	0.58	313.97	953.9	10.8	1.5	0.10	-0.08	-6.08	-6.4	-8.8	
968.0	0.57	313.13	967.9	10.9	1.4	0.09	-0.07	-6.00	-6.4	-8.9	
981.0	0.56	312.26	980.9	11.0	1.3	0.10	-0.08	-6.69	-6.4	-9.0	
995.0	0.55	311.35	994.9	11.1	1.2	0.10	-0.07	-6.50	-6.4	-9.1	
1,008.0	0.54	310.40	1,007.9	11.1	1.1	0.10	-0.08	-7.31	-6.4	-9.2	
1,022.0	0.54	309.40	1,021.9	11.2	1.0	0.07	0.00	-7.14	-6.3	-9.3	
1,035.0	0.53	308.36	1,034.9	11.3	0.9	0.11	-0.08	-8.00	-6.3	-9.4	
1,048.0	0.53	307.19	1,047.9	11.4	0.8	0.08	0.00	-9.00	-6.2	-9.5	
1,062.0	0.53	306.00	1,061.9	11.4	0.7	0.08	0.00	-8.50	-6.2	-9.7	
1,075.0	0.53	304.80	1,074.9	11.5	0.6	0.09	0.00	-9.23	-6.1	-9.8	
1,089.0	0.53	303.59	1,088.9	11.6	0.5	0.08	0.00	-8.64	-6.0	-9.9	
1,102.0	0.53	302.38	1,101.9	11.7	0.4	0.09	0.00	-9.31	-5.9	-10.1	
1,116.0	0.53	301.15	1,115.9	11.7	0.3	0.08	0.00	-8.79	-5.8	-10.2	



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
1,129.0	0.53	299.92	1,128.9	11.8	0.2	0.09	0.00	-9.46	-5.7	-10.3
1,144.0	0.55	301.18	1,143.9	11.9	0.1	0.16	0.13	8.40	-6.1	-10.2
1,158.0	0.56	302.36	1,157.9	11.9	0.0	0.11	0.07	8.43	-6.4	-10.0
1,173.0	0.57	303.48	1,172.9	12.0	-0.2	0.10	0.07	7.47	-6.8	-9.9
1,188.0	0.59	304.53	1,187.9	12.1	-0.3	0.15	0.13	7.00	-7.1	-9.8
1,202.0	0.60	305.52	1,201.9	12.2	-0.4	0.10	0.07	7.07	-7.4	-9.7
1,217.0	0.61	306.45	1,216.9	12.3	-0.5	0.09	0.07	6.20	-7.7	-9.5
1,231.0	0.59	303.29	1,230.9	12.4	-0.7	0.28	-0.14	-22.57	-7.3	-10.0
1,245.0	0.57	299.85	1,244.9	12.4	-0.8	0.29	-0.14	-24.57	-6.9	-10.4
1,259.0	0.55	296.15	1,258.9	12.5	-0.9	0.30	-0.14	-26.43	-6.3	-10.8
1,272.0	0.53	292.18	1,271.9	12.5	-1.0	0.33	-0.15	-30.54	-5.7	-11.2
1,286.0	0.52	287.95	1,285.9	12.6	-1.1	0.29	-0.07	-30.21	-5.0	-11.6
1,300.0	0.51	283.50	1,299.9	12.6	-1.3	0.29	-0.07	-31.79	-4.2	-12.0
1,313.0	0.70	268.11	1,312.9	12.6	-1.4	1.91	1.46	-118.38	-1.0	-12.7
1,327.0	0.93	259.78	1,326.9	12.6	-1.6	1.84	1.64	-59.50	0.7	-12.7
1,340.0	1.16	254.76	1,339.9	12.6	-1.8	1.90	1.77	-38.62	1.5	-12.6
1,354.0	1.40	251.45	1,353.9	12.5	-2.1	1.79	1.71	-23.64	2.0	-12.5
1,367.0	1.49	253.01	1,366.9	12.4	-2.4	0.76	0.69	12.00	1.3	-12.5
1,381.0	1.53	253.60	1,380.9	12.3	-2.8	0.31	0.29	4.21	0.9	-12.6
1,394.0	1.95	244.81	1,393.9	12.1	-3.2	3.82	3.23	-67.62	2.6	-12.3
1,408.0	2.63	252.73	1,407.9	11.9	-3.7	5.35	4.86	56.57	0.6	-12.6
1,421.0	3.43	252.21	1,420.9	11.7	-4.3	6.16	6.15	-4.00	0.3	-12.7
1,435.0	3.41	250.64	1,434.8	11.4	-5.1	0.68	-0.14	-11.21	0.2	-12.7
1,448.0	3.40	248.91	1,447.8	11.2	-5.8	0.79	-0.08	-13.31	0.2	-12.8
1,462.0	3.38	247.15	1,461.8	10.9	-6.6	0.76	-0.14	-12.57	0.3	-12.9
1,475.0	3.37	245.52	1,474.8	10.6	-7.3	0.74	-0.08	-12.54	0.4	-12.9
1,489.0	3.36	244.18	1,488.7	10.2	-8.1	0.57	-0.07	-9.57	0.5	-13.0



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
1,502.0	3.34	243.44	1,501.7	9.9	-8.7	0.37	-0.15	-5.69	0.6	-13.0
1,516.0	3.33	242.98	1,515.7	9.5	-9.5	0.20	-0.07	-3.29	0.7	-13.1
1,529.0	3.33	242.61	1,528.7	9.2	-10.1	0.17	0.00	-2.85	0.8	-13.1
1,542.0	3.33	242.20	1,541.6	8.8	-10.8	0.18	0.00	-3.15	1.0	-13.2
1,555.0	3.38	240.99	1,554.6	8.4	-11.5	0.67	0.38	-9.31	1.4	-13.2
1,569.0	3.82	233.21	1,568.6	8.0	-12.2	4.69	3.14	-55.57	3.3	-12.8
1,582.0	4.54	232.61	1,581.6	7.4	-13.0	5.55	5.54	-4.62	3.5	-12.7
1,596.0	5.05	231.20	1,595.5	6.7	-13.9	3.74	3.64	-10.07	3.8	-12.5
1,609.0	5.14	229.39	1,608.5	5.9	-14.8	1.42	0.69	-13.92	4.1	-12.2
1,623.0	5.25	227.50	1,622.4	5.1	-15.7	1.45	0.79	-13.50	4.5	-11.8
1,636.0	5.38	225.75	1,635.3	4.3	-16.6	1.60	1.00	-13.46	4.9	-11.4
1,650.0	5.50	224.36	1,649.3	3.3	-17.5	1.27	0.86	-9.93	5.3	-10.9
1,663.0	6.40	224.73	1,662.2	2.4	-18.5	6.93	6.92	2.85	5.2	-10.6
1,677.0	7.08	229.86	1,676.1	1.3	-19.7	6.48	4.86	36.64	4.1	-10.7
1,690.0	7.48	230.20	1,689.0	0.2	-21.0	3.09	3.08	2.62	3.9	-10.5
1,704.0	7.70	230.28	1,702.9	-1.0	-22.4	1.57	1.57	0.57	3.7	-10.2
1,717.0	7.93	230.58	1,715.8	-2.1	-23.7	1.80	1.77	2.31	3.5	-10.0
1,731.0	8.16	230.91	1,729.6	-3.3	-25.3	1.68	1.64	2.36	3.3	-9.7
1,744.0	8.40	231.24	1,742.5	-4.5	-26.7	1.88	1.85	2.54	3.1	-9.5
1,758.0	9.15	231.72	1,756.3	-5.9	-28.4	5.38	5.36	3.43	2.8	-9.3
1,771.0	10.11	233.40	1,769.1	-7.2	-30.1	7.69	7.38	12.92	2.2	-9.1
1,784.0	11.08	234.85	1,781.9	-8.6	-32.0	7.74	7.46	11.15	1.5	-9.0
1,798.0	11.68	236.02	1,795.7	-10.1	-34.3	4.59	4.29	8.36	0.7	-8.9
1,811.0	11.81	236.59	1,808.4	-11.6	-36.5	1.34	1.00	4.38	0.0	-8.8
1,825.0	11.82	236.61	1,822.1	-13.2	-38.9	0.08	0.07	0.14	-0.6	-8.7
1,838.0	11.87	236.62	1,834.8	-14.7	-41.1	0.38	0.38	0.08	-1.1	-8.6
1,852.0	12.54	236.28	1,848.5	-16.3	-43.6	4.81	4.79	-2.43	-1.6	-8.5

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)	
1,865.0	13.28	237.79	1,861.2	-17.9	-46.1	6.26	5.69	11.62	-2.5	-8.4	
1,879.0	13.81	239.13	1,874.8	-19.6	-48.8	4.40	3.79	9.57	-3.4	-8.3	
1,892.0	13.82	239.40	1,887.4	-21.2	-51.5	0.50	0.08	2.08	-4.2	-8.3	
1,906.0	13.83	239.71	1,901.0	-22.9	-54.4	0.53	0.07	2.21	-4.9	-8.3	
1,919.0	13.84	240.03	1,913.6	-24.4	-57.1	0.59	0.08	2.46	-5.6	-8.3	
1,933.0	13.84	240.35	1,927.2	-26.1	-60.0	0.55	0.00	2.29	-6.2	-8.3	
1,946.0	13.84	240.63	1,939.8	-27.6	-62.7	0.52	0.00	2.15	-6.7	-8.3	
1,960.0	13.83	240.85	1,953.4	-29.3	-65.6	0.38	-0.07	1.57	-7.2	-8.4	
1,973.0	13.82	240.96	1,966.0	-30.8	-68.3	0.22	-0.08	0.85	-7.5	-8.4	
1,987.0	13.80	241.00	1,979.6	-32.4	-71.3	0.16	-0.14	0.29	-7.8	-8.5	
2,000.0	13.78	241.01	1,992.3	-33.9	-74.0	0.15	-0.15	0.08	-8.0	-8.6	
2,014.0	13.76	241.00	2,005.9	-35.5	-76.9	0.14	-0.14	-0.07	-8.2	-8.7	
2,027.0	13.88	240.96	2,018.5	-37.0	-79.6	0.93	0.92	-0.31	-8.3	-8.8	
2,041.0	14.80	240.84	2,032.1	-38.7	-82.6	6.57	6.57	-0.86	-8.4	-9.0	
2,054.0	15.24	240.51	2,044.6	-40.3	-85.6	3.45	3.38	-2.54	-8.6	-9.1	
2,068.0	15.25	240.53	2,058.1	-42.2	-88.8	0.08	0.07	0.14	-8.9	-9.2	
2,081.0	15.27	240.55	2,070.7	-43.8	-91.7	0.16	0.15	0.15	-9.1	-9.2	
2,095.0	15.29	240.58	2,084.2	-45.7	-95.0	0.15	0.14	0.21	-9.2	-9.3	
2,108.0	15.32	240.61	2,096.7	-47.3	-98.0	0.24	0.23	0.23	-9.3	-9.4	
2,122.0	15.33	240.66	2,110.2	-49.2	-101.2	0.12	0.07	0.36	-9.3	-9.5	
2,135.0	15.35	240.70	2,122.7	-50.8	-104.2	0.17	0.15	0.31	-9.4	-9.6	
2,149.0	15.35	240.76	2,136.2	-52.7	-107.4	0.11	0.00	0.43	-9.5	-9.7	
2,162.0	15.33	240.83	2,148.8	-54.3	-110.4	0.21	-0.15	0.54	-9.5	-9.8	
2,176.0	15.30	240.90	2,162.3	-56.1	-113.6	0.25	-0.21	0.50	-9.6	-9.9	
2,189.0	15.26	240.98	2,174.8	-57.8	-116.6	0.35	-0.31	0.62	-9.7	-10.0	
2,203.0	15.22	241.07	2,188.3	-59.6	-119.9	0.33	-0.29	0.64	-9.7	-10.1	
2,216.0	15.18	241.17	2,200.9	-61.2	-122.8	0.37	-0.31	0.77	-9.7	-10.2	



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)	
2,230.0	15.13	241.27	2,214.4	-63.0	-126.0	0.40	-0.36	0.71	-9.8	-10.3	
2,243.0	15.09	241.38	2,226.9	-64.6	-129.0	0.38	-0.31	0.85	-9.8	-10.4	
2,256.0	15.05	241.50	2,239.5	-66.2	-132.0	0.39	-0.31	0.92	-9.8	-10.5	
2,270.0	15.02	241.63	2,253.0	-68.0	-135.2	0.32	-0.21	0.93	-9.8	-10.7	
2,283.0	14.99	241.76	2,265.6	-69.6	-138.1	0.35	-0.23	1.00	-9.8	-10.8	
2,297.0	14.96	241.89	2,279.1	-71.3	-141.3	0.32	-0.21	0.93	-9.8	-10.9	
2,310.0	14.93	242.00	2,291.7	-72.8	-144.3	0.32	-0.23	0.85	-9.8	-11.1	
2,324.0	14.91	242.10	2,305.2	-74.5	-147.5	0.23	-0.14	0.71	-9.8	-11.3	
2,337.0	14.89	242.18	2,317.7	-76.1	-150.4	0.22	-0.15	0.62	-9.8	-11.4	
2,350.0	14.87	242.21	2,330.3	-77.6	-153.4	0.16	-0.15	0.23	-9.8	-11.6	
2,364.0	14.86	242.21	2,343.8	-79.3	-156.6	0.07	-0.07	0.00	-9.7	-11.8	
2,377.0	14.85	242.20	2,356.4	-80.9	-159.5	0.08	-0.08	-0.08	-9.7	-12.0	
2,391.0	14.84	242.19	2,369.9	-82.5	-162.7	0.07	-0.07	-0.07	-9.6	-12.2	
2,404.0	14.82	242.17	2,382.5	-84.1	-165.6	0.16	-0.15	-0.15	-9.5	-12.4	
2,418.0	14.81	242.17	2,396.0	-85.8	-168.8	0.07	-0.07	0.00	-9.5	-12.6	
2,431.0	14.79	242.19	2,408.6	-87.3	-171.7	0.16	-0.15	0.15	-9.4	-12.7	
2,445.0	14.76	242.25	2,422.1	-89.0	-174.9	0.24	-0.21	0.43	-9.4	-12.9	
2,458.0	14.74	242.33	2,434.7	-90.5	-177.8	0.22	-0.15	0.62	-9.3	-13.1	
2,472.0	14.70	242.43	2,448.3	-92.2	-181.0	0.34	-0.29	0.71	-9.2	-13.3	
2,485.0	14.67	242.54	2,460.8	-93.7	-183.9	0.32	-0.23	0.85	-9.2	-13.5	
2,499.0	14.64	242.65	2,474.4	-95.3	-187.0	0.29	-0.21	0.79	-9.1	-13.7	
2,512.0	14.62	242.75	2,487.0	-96.8	-190.0	0.25	-0.15	0.77	-9.0	-13.9	
2,526.0	14.60	242.86	2,500.5	-98.4	-193.1	0.24	-0.14	0.79	-8.9	-14.1	
2,539.0	14.60	242.95	2,513.1	-99.9	-196.0	0.17	0.00	0.69	-8.9	-14.3	
2,553.0	14.60	243.02	2,526.6	-101.5	-199.2	0.13	0.00	0.50	-8.8	-14.5	
2,566.0	14.60	243.09	2,539.2	-103.0	-202.1	0.14	0.00	0.54	-8.7	-14.7	
2,580.0	14.60	243.14	2,552.8	-104.6	-205.2	0.09	0.00	0.36	-8.6	-15.0	



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
2,593.0	14.59	243.16	2,565.3	-106.1	-208.1	0.09	-0.08	0.15	-8.5	-15.2
2,607.0	14.57	243.16	2,578.9	-107.7	-211.3	0.14	-0.14	0.00	-8.4	-15.5
2,620.0	14.52	243.11	2,591.5	-109.2	-214.2	0.40	-0.38	-0.38	-8.2	-15.7
2,634.0	14.43	242.99	2,605.0	-110.8	-217.3	0.68	-0.64	-0.86	-8.1	-16.0
2,647.0	14.32	242.83	2,617.6	-112.2	-220.2	0.90	-0.85	-1.23	-7.9	-16.2
2,661.0	14.21	242.65	2,631.2	-113.8	-223.3	0.85	-0.79	-1.29	-7.6	-16.5
2,674.0	14.09	242.46	2,643.8	-115.3	-226.1	0.99	-0.92	-1.46	-7.3	-16.7
2,688.0	14.04	242.37	2,657.4	-116.8	-229.1	0.39	-0.36	-0.64	-7.1	-16.9
2,701.0	14.51	242.97	2,670.0	-118.3	-231.9	3.79	3.62	4.62	-7.1	-17.1
2,715.0	14.79	239.77	2,683.5	-120.0	-235.1	6.12	2.00	-22.86	-6.0	-17.6
2,728.0	14.80	239.25	2,696.1	-121.7	-237.9	1.02	0.08	-4.00	-5.8	-17.7
2,742.0	14.78	239.17	2,709.6	-123.5	-241.0	0.20	-0.14	-0.57	-5.7	-17.7
2,755.0	14.76	239.11	2,722.2	-125.2	-243.8	0.19	-0.15	-0.46	-5.6	-17.7
2,769.0	14.74	239.04	2,735.7	-127.1	-246.9	0.19	-0.14	-0.50	-5.5	-17.7
2,782.0	14.72	238.99	2,748.3	-128.8	-249.7	0.18	-0.15	-0.38	-5.4	-17.7
2,796.0	14.71	238.94	2,761.8	-130.6	-252.8	0.12	-0.07	-0.36	-5.3	-17.7
2,809.0	14.69	238.91	2,774.4	-132.3	-255.6	0.16	-0.15	-0.23	-5.2	-17.7
2,822.0	14.67	238.90	2,787.0	-134.0	-258.4	0.16	-0.15	-0.08	-5.1	-17.7
2,836.0	14.64	238.90	2,800.5	-135.8	-261.4	0.21	-0.21	0.00	-5.0	-17.6
2,849.0	14.62	238.89	2,813.1	-137.5	-264.3	0.16	-0.15	-0.08	-4.9	-17.6
2,863.0	14.59	238.87	2,826.7	-139.3	-267.3	0.22	-0.21	-0.14	-4.8	-17.6
2,876.0	14.57	238.81	2,839.2	-141.0	-270.1	0.19	-0.15	-0.46	-4.6	-17.6
2,890.0	14.56	238.71	2,852.8	-142.9	-273.1	0.19	-0.07	-0.71	-4.5	-17.6
2,903.0	14.56	238.52	2,865.4	-144.6	-275.9	0.37	0.00	-1.46	-4.3	-17.6
2,917.0	14.57	238.19	2,878.9	-146.4	-278.9	0.60	0.07	-2.36	-4.1	-17.5
2,930.0	14.59	237.80	2,891.5	-148.2	-281.7	0.77	0.15	-3.00	-3.8	-17.5
2,944.0	14.62	237.36	2,905.1	-150.0	-284.6	0.82	0.21	-3.14	-3.6	-17.4

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
2,957.0	14.65	236.91	2,917.6	-151.8	-287.4	0.90	0.23	-3.46	-3.4	-17.3
2,971.0	14.68	236.47	2,931.2	-153.8	-290.4	0.82	0.21	-3.14	-3.1	-17.2
2,984.0	14.69	236.08	2,943.8	-155.6	-293.1	0.76	0.08	-3.00	-2.9	-17.1
2,998.0	14.86	234.52	2,957.3	-157.6	-296.0	3.09	1.21	-11.14	-2.4	-16.9
3,011.0	15.32	232.06	2,969.8	-159.7	-298.7	6.06	3.54	-18.92	-1.7	-16.6
3,025.0	15.59	231.10	2,983.3	-162.0	-301.7	2.66	1.93	-6.86	-1.6	-16.2
3,038.0	15.52	230.95	2,995.9	-164.2	-304.4	0.62	-0.54	-1.15	-1.7	-15.7
3,052.0	15.44	230.83	3,009.4	-166.5	-307.3	0.62	-0.57	-0.86	-1.8	-15.2
3,065.0	15.35	230.73	3,021.9	-168.7	-309.9	0.72	-0.69	-0.77	-1.9	-14.7
3,079.0	15.27	230.66	3,035.4	-171.1	-312.8	0.59	-0.57	-0.50	-1.9	-14.2
3,092.0	15.20	230.61	3,047.9	-173.2	-315.4	0.55	-0.54	-0.38	-2.0	-13.7
3,106.0	15.14	230.58	3,061.4	-175.5	-318.3	0.43	-0.43	-0.21	-2.0	-13.1
3,119.0	15.09	230.59	3,074.0	-177.7	-320.9	0.39	-0.38	0.08	-2.1	-12.6
3,133.0	15.05	230.60	3,087.5	-180.0	-323.7	0.29	-0.29	0.07	-2.1	-12.1
3,146.0	15.01	230.62	3,100.1	-182.1	-326.3	0.31	-0.31	0.15	-2.1	-11.6
3,160.0	14.98	230.64	3,113.6	-184.4	-329.1	0.22	-0.21	0.14	-2.2	-11.0
3,173.0	14.94	230.65	3,126.2	-186.6	-331.7	0.31	-0.31	0.08	-2.2	-10.5
3,187.0	14.90	230.65	3,139.7	-188.9	-334.5	0.29	-0.29	0.00	-2.2	-10.0
3,200.0	14.86	230.61	3,152.2	-191.0	-337.1	0.32	-0.31	-0.31	-2.1	-9.5
3,214.0	14.82	230.55	3,165.8	-193.3	-339.8	0.31	-0.29	-0.43	-2.1	-9.0
3,227.0	14.78	230.48	3,178.3	-195.4	-342.4	0.34	-0.31	-0.54	-2.1	-8.5
3,241.0	14.74	230.41	3,191.9	-197.6	-345.2	0.31	-0.29	-0.50	-2.0	-7.9
3,254.0	14.71	230.33	3,204.5	-199.7	-347.7	0.28	-0.23	-0.62	-2.0	-7.4
3,268.0	14.68	230.24	3,218.0	-202.0	-350.4	0.27	-0.21	-0.64	-1.9	-6.9
3,281.0	14.66	230.16	3,230.6	-204.1	-353.0	0.22	-0.15	-0.62	-1.8	-6.3
3,294.0	14.67	230.08	3,243.2	-206.2	-355.5	0.17	0.08	-0.62	-1.8	-5.8
3,308.0	14.68	230.00	3,256.7	-208.5	-358.2	0.16	0.07	-0.57	-1.7	-5.2



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
3,321.0	14.70	229.92	3,269.3	-210.6	-360.7	0.22	0.15	-0.62	-1.6	-4.7
3,335.0	14.72	229.87	3,282.8	-212.9	-363.5	0.17	0.14	-0.36	-1.6	-4.1
3,348.0	14.76	229.84	3,295.4	-215.0	-366.0	0.31	0.31	-0.23	-1.6	-3.6
3,362.0	15.29	230.03	3,308.9	-217.4	-368.8	3.80	3.79	1.36	-1.6	-3.0
3,375.0	15.25	229.88	3,321.4	-219.6	-371.4	0.43	-0.31	-1.15	-1.7	-2.4
3,388.0	15.32	231.37	3,334.0	-221.8	-374.0	3.07	0.54	11.46	-1.8	-1.9
3,402.0	15.26	231.46	3,347.5	-224.1	-376.9	0.46	-0.43	0.64	-1.9	-1.4
3,415.0	15.20	231.58	3,360.0	-226.2	-379.6	0.52	-0.46	0.92	-1.9	-1.0
3,429.0	15.14	231.71	3,373.5	-228.5	-382.5	0.49	-0.43	0.93	-2.0	-0.5
3,442.0	15.06	231.85	3,386.1	-230.6	-385.1	0.68	-0.62	1.08	-2.0	0.0
3,456.0	14.99	231.98	3,399.6	-232.8	-388.0	0.55	-0.50	0.93	-2.0	0.4
3,469.0	14.92	232.12	3,412.2	-234.9	-390.6	0.61	-0.54	1.08	-2.0	0.8
3,483.0	14.86	232.22	3,425.7	-237.1	-393.5	0.47	-0.43	0.71	-2.0	1.3
3,496.0	14.79	232.32	3,438.3	-239.1	-396.1	0.57	-0.54	0.77	-2.0	1.7
3,510.0	14.73	232.42	3,451.8	-241.3	-398.9	0.47	-0.43	0.71	-1.9	2.1
3,523.0	14.68	232.51	3,464.4	-243.3	-401.5	0.42	-0.38	0.69	-1.8	2.5
3,537.0	14.63	232.60	3,477.9	-245.4	-404.4	0.39	-0.36	0.64	-1.7	2.9
3,550.0	15.01	234.22	3,490.5	-247.4	-407.0	4.32	2.92	12.46	-1.6	3.3
3,564.0	15.58	236.02	3,504.0	-249.5	-410.1	5.30	4.07	12.86	-1.6	3.6
3,577.0	15.58	236.13	3,516.5	-251.5	-412.9	0.23	0.00	0.85	-1.7	3.8
3,591.0	15.58	236.26	3,530.0	-253.6	-416.1	0.25	0.00	0.93	-1.8	4.0
3,604.0	15.59	236.39	3,542.5	-255.5	-419.0	0.28	0.08	1.00	-1.9	4.2
3,618.0	15.60	236.52	3,556.0	-257.6	-422.1	0.26	0.07	0.93	-2.0	4.3
3,631.0	15.61	236.65	3,568.5	-259.5	-425.0	0.28	0.08	1.00	-2.1	4.5
3,645.0	15.61	236.76	3,582.0	-261.6	-428.2	0.21	0.00	0.79	-2.2	4.6
3,658.0	15.59	236.86	3,594.5	-263.5	-431.1	0.26	-0.15	0.77	-2.3	4.8
3,671.0	15.56	236.92	3,607.1	-265.4	-434.0	0.26	-0.23	0.46	-2.5	4.9

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
3,685.0	15.51	236.96	3,620.6	-267.5	-437.2	0.37	-0.36	0.29	-2.6	5.1
3,698.0	15.46	236.98	3,633.1	-269.3	-440.1	0.39	-0.38	0.15	-2.7	5.2
3,712.0	15.39	237.00	3,646.6	-271.4	-443.2	0.50	-0.50	0.14	-2.7	5.3
3,725.0	15.32	237.01	3,659.1	-273.2	-446.1	0.54	-0.54	0.08	-2.8	5.4
3,739.0	15.25	237.02	3,672.6	-275.3	-449.2	0.50	-0.50	0.07	-2.8	5.6
3,752.0	15.17	237.04	3,685.2	-277.1	-452.1	0.62	-0.62	0.15	-2.9	5.7
3,766.0	15.08	237.07	3,698.7	-279.1	-455.1	0.65	-0.64	0.21	-2.9	5.8
3,779.0	14.99	237.11	3,711.2	-280.9	-458.0	0.70	-0.69	0.31	-2.9	6.0
3,793.0	14.90	237.15	3,724.8	-282.9	-461.0	0.65	-0.64	0.29	-2.8	6.1
3,806.0	14.80	237.20	3,737.3	-284.7	-463.8	0.78	-0.77	0.38	-2.8	6.2
3,820.0	14.71	237.25	3,750.9	-286.6	-466.8	0.65	-0.64	0.36	-2.7	6.3
3,833.0	14.63	237.31	3,763.4	-288.4	-469.6	0.63	-0.62	0.46	-2.6	6.4
3,847.0	14.55	237.39	3,777.0	-290.3	-472.5	0.59	-0.57	0.57	-2.4	6.6
3,860.0	14.49	237.48	3,789.6	-292.1	-475.3	0.49	-0.46	0.69	-2.3	6.7
3,874.0	14.44	237.58	3,803.1	-293.9	-478.2	0.40	-0.36	0.71	-2.1	6.8
3,887.0	14.39	237.68	3,815.7	-295.7	-481.0	0.43	-0.38	0.77	-2.0	6.9
3,901.0	14.35	237.79	3,829.3	-297.5	-483.9	0.35	-0.29	0.79	-1.8	6.9
3,914.0	14.30	237.90	3,841.9	-299.2	-486.6	0.44	-0.38	0.85	-1.6	7.0
3,928.0	14.45	238.48	3,855.4	-301.1	-489.6	1.49	1.07	4.14	-1.4	7.1
3,941.0	15.10	239.94	3,868.0	-302.8	-492.4	5.76	5.00	11.23	-1.1	7.1
3,955.0	15.55	240.42	3,881.5	-304.6	-495.6	3.34	3.21	3.43	-1.1	7.1
3,968.0	15.50	240.55	3,894.0	-306.3	-498.7	0.47	-0.38	1.00	-1.2	7.0
3,982.0	15.44	240.68	3,907.5	-308.2	-501.9	0.49	-0.43	0.93	-1.3	6.9
3,995.0	15.38	240.81	3,920.1	-309.8	-504.9	0.53	-0.46	1.00	-1.3	6.8
4,009.0	15.30	240.92	3,933.6	-311.6	-508.2	0.61	-0.57	0.79	-1.4	6.7
4,022.0	15.21	241.01	3,946.1	-313.3	-511.1	0.72	-0.69	0.69	-1.4	6.6
4,036.0	15.09	241.05	3,959.6	-315.1	-514.3	0.86	-0.86	0.29	-1.4	6.5

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
4,049.0	14.93	241.00	3,972.2	-316.7	-517.3	1.23	-1.23	-0.38	-1.4	6.4
4,063.0	14.75	240.90	3,985.7	-318.5	-520.4	1.30	-1.29	-0.71	-1.4	6.2
4,076.0	14.55	240.76	3,998.3	-320.1	-523.3	1.56	-1.54	-1.08	-1.3	6.1
4,090.0	14.35	240.60	4,011.8	-321.8	-526.3	1.46	-1.43	-1.14	-1.1	6.0
4,103.0	14.16	240.42	4,024.4	-323.3	-529.1	1.50	-1.46	-1.38	-1.0	5.9
4,117.0	13.97	240.24	4,038.0	-325.0	-532.1	1.39	-1.36	-1.29	-0.7	5.9
4,130.0	13.82	240.06	4,050.6	-326.6	-534.8	1.20	-1.15	-1.38	-0.5	5.8
4,143.0	13.71	239.91	4,063.3	-328.1	-537.5	0.89	-0.85	-1.15	-0.2	5.7
4,157.0	13.63	239.78	4,076.9	-329.8	-540.3	0.61	-0.57	-0.93	0.1	5.7
4,170.0	13.56	239.64	4,089.5	-331.3	-543.0	0.59	-0.54	-1.08	0.5	5.7
4,184.0	13.50	239.51	4,103.1	-333.0	-545.8	0.48	-0.43	-0.93	0.8	5.6
4,197.0	13.45	239.38	4,115.8	-334.5	-548.4	0.45	-0.38	-1.00	1.2	5.6
4,211.0	13.39	239.23	4,129.4	-336.2	-551.2	0.50	-0.43	-1.07	1.6	5.6
4,224.0	13.36	239.09	4,142.0	-337.7	-553.8	0.34	-0.23	-1.08	2.0	5.6
4,237.0	13.92	239.40	4,154.7	-339.3	-556.4	4.34	4.31	2.38	2.3	5.6
4,251.0	14.64	239.12	4,168.2	-341.1	-559.4	5.17	5.14	-2.00	2.5	5.6
4,264.0	14.62	238.77	4,180.8	-342.8	-562.2	0.70	-0.15	-2.69	2.6	5.6
4,278.0	14.45	238.40	4,194.4	-344.6	-565.2	1.38	-1.21	-2.64	2.7	5.7
4,291.0	14.27	238.03	4,207.0	-346.3	-567.9	1.55	-1.38	-2.85	2.8	5.7
4,305.0	14.10	237.73	4,220.5	-348.1	-570.8	1.32	-1.21	-2.14	3.0	5.8
4,318.0	13.96	237.56	4,233.1	-349.8	-573.5	1.12	-1.08	-1.31	3.2	5.9
4,332.0	13.86	237.66	4,246.7	-351.6	-576.3	0.73	-0.71	0.71	3.5	6.0
4,345.0	13.79	237.91	4,259.4	-353.3	-579.0	0.71	-0.54	1.92	3.8	6.1
4,359.0	13.73	238.25	4,273.0	-355.0	-581.8	0.72	-0.43	2.43	4.2	6.1
4,372.0	13.69	238.63	4,285.6	-356.6	-584.4	0.76	-0.31	2.92	4.5	6.1
4,386.0	13.65	238.99	4,299.2	-358.3	-587.3	0.67	-0.29	2.57	4.9	6.1
4,399.0	13.60	239.30	4,311.8	-359.9	-589.9	0.68	-0.38	2.38	5.3	6.1



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
4,413.0	14.22	239.04	4,325.4	-361.6	-592.8	4.45	4.43	-1.86	5.6	6.1
4,426.0	14.97	239.92	4,338.0	-363.3	-595.6	6.02	5.77	6.77	5.8	6.0
4,440.0	15.79	240.54	4,351.5	-365.1	-598.8	5.97	5.86	4.43	5.7	5.9
4,453.0	16.66	240.31	4,364.0	-366.9	-602.0	6.71	6.69	-1.77	5.5	5.8
4,467.0	16.58	240.10	4,377.4	-368.9	-605.5	0.71	-0.57	-1.50	5.1	5.8
4,480.0	16.51	239.83	4,389.8	-370.8	-608.7	0.80	-0.54	-2.08	4.7	5.8
4,494.0	16.43	239.54	4,403.3	-372.8	-612.1	0.82	-0.57	-2.07	4.4	5.7
4,507.0	16.35	239.26	4,415.7	-374.6	-615.2	0.86	-0.62	-2.15	4.0	5.7
4,521.0	16.26	239.01	4,429.2	-376.7	-618.6	0.82	-0.64	-1.79	3.7	5.8
4,534.0	16.17	238.79	4,441.7	-378.5	-621.7	0.84	-0.69	-1.69	3.4	5.8
4,548.0	16.09	238.58	4,455.1	-380.6	-625.0	0.71	-0.57	-1.50	3.2	5.8
4,561.0	16.00	238.39	4,467.6	-382.4	-628.1	0.80	-0.69	-1.46	2.9	5.9
4,575.0	15.92	238.20	4,481.1	-384.5	-631.4	0.68	-0.57	-1.36	2.7	5.9
4,588.0	15.84	238.01	4,493.6	-386.3	-634.4	0.73	-0.62	-1.46	2.5	6.0
4,602.0	15.77	237.82	4,507.0	-388.4	-637.6	0.62	-0.50	-1.36	2.3	6.1
4,616.0	15.71	237.63	4,520.5	-390.4	-640.8	0.56	-0.43	-1.36	2.1	6.2
4,629.0	15.66	237.45	4,533.0	-392.3	-643.8	0.54	-0.38	-1.38	2.0	6.3
4,643.0	15.62	237.28	4,546.5	-394.3	-647.0	0.43	-0.29	-1.21	1.8	6.4
4,656.0	15.57	237.13	4,559.0	-396.2	-649.9	0.49	-0.38	-1.15	1.7	6.5
4,670.0	15.53	237.01	4,572.5	-398.3	-653.1	0.37	-0.29	-0.86	1.6	6.6
4,683.0	15.48	236.94	4,585.0	-400.1	-656.0	0.41	-0.38	-0.54	1.5	6.8
4,697.0	15.42	236.94	4,598.5	-402.2	-659.1	0.43	-0.43	0.00	1.4	6.9
4,710.0	15.35	237.05	4,611.1	-404.1	-662.0	0.58	-0.54	0.85	1.3	7.0
4,724.0	15.28	237.23	4,624.6	-406.1	-665.1	0.60	-0.50	1.29	1.3	7.2
4,737.0	15.19	237.45	4,637.1	-407.9	-668.0	0.82	-0.69	1.69	1.3	7.3
4,751.0	15.11	237.70	4,650.6	-409.9	-671.1	0.74	-0.57	1.79	1.3	7.4
4,764.0	15.02	237.95	4,663.2	-411.7	-673.9	0.85	-0.69	1.92	1.3	7.4



Final PVA

Company: Midland
Project: Lea County, NM (NAD 83 NME)
Site: Modelo 3 Fed Com
Well: #529H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #529H
TVD Reference: kb = 26' @ 3671.0usft
MD Reference: kb = 26' @ 3671.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: PEDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
4,778.0	15.17	238.62	4,676.7	-413.6	-677.0	1.64	1.07	4.79	1.4	7.5
4,791.0	15.66	240.70	4,689.2	-415.3	-680.0	5.68	3.77	16.00	1.6	7.4
4,804.0	15.68	241.48	4,701.8	-417.0	-683.1	1.63	0.15	6.00	1.6	7.2
4,818.0	15.58	241.70	4,715.2	-418.8	-686.4	0.83	-0.71	1.57	1.5	7.1
4,831.0	15.47	241.92	4,727.8	-420.5	-689.5	0.96	-0.85	1.69	1.4	6.9
4,845.0	15.35	242.15	4,741.3	-422.2	-692.8	0.96	-0.86	1.64	1.3	6.7
4,858.0	15.23	242.37	4,753.8	-423.8	-695.8	1.03	-0.92	1.69	1.3	6.5
4,872.0	15.10	242.59	4,767.3	-425.5	-699.1	1.02	-0.93	1.57	1.3	6.3
4,885.0	14.96	242.81	4,779.9	-427.0	-702.0	1.16	-1.08	1.69	1.3	6.1
4,899.0	14.79	242.99	4,793.4	-428.7	-705.2	1.26	-1.21	1.29	1.4	5.9
4,912.0	14.61	243.16	4,806.0	-430.2	-708.2	1.42	-1.38	1.31	1.5	5.6
4,926.0	14.43	243.32	4,819.5	-431.8	-711.3	1.32	-1.29	1.14	1.6	5.3
4,939.0	14.24	243.47	4,832.1	-433.2	-714.2	1.49	-1.46	1.15	1.8	5.1
4,953.0	14.05	243.60	4,845.7	-434.7	-717.3	1.38	-1.36	0.93	2.0	4.8
4,966.0	13.86	243.71	4,858.3	-436.1	-720.1	1.48	-1.46	0.85	2.3	4.5
4,980.0	13.69	243.79	4,871.9	-437.6	-723.1	1.22	-1.21	0.57	2.6	4.2
4,994.0	13.51	243.82	4,885.5	-439.0	-726.0	1.29	-1.29	0.21	3.0	3.9
5,007.0	13.37	243.80	4,898.2	-440.4	-728.7	1.08	-1.08	-0.15	3.3	3.7
5,021.0	13.28	243.73	4,911.8	-441.8	-731.6	0.65	-0.64	-0.50	3.8	3.4
5,036.0	13.29	243.57	4,926.4	-443.3	-734.7	0.25	0.07	-1.07	4.2	3.1
5,050.0	13.35	243.38	4,940.0	-444.8	-737.6	0.53	0.43	-1.36	4.6	2.8
5,065.0	13.46	243.16	4,954.6	-446.3	-740.7	0.81	0.73	-1.47	5.0	2.5
5,080.0	13.81	242.53	4,969.2	-447.9	-743.8	2.53	2.33	-4.20	5.4	2.3
5,095.0	14.15	241.94	4,983.7	-449.6	-747.1	2.46	2.27	-3.93	5.7	2.2
5,109.0	14.31	241.71	4,997.3	-451.3	-750.1	1.21	1.14	-1.64	5.9	2.0
5,124.0	14.48	241.48	5,011.8	-453.0	-753.4	1.20	1.13	-1.53	6.0	1.9
5,139.0	14.64	241.26	5,026.3	-454.8	-756.7	1.13	1.07	-1.47	6.2	1.8

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
5,154.0	14.79	241.07	5,040.9	-456.7	-760.0	1.05	1.00	-1.27	6.2	1.6
5,168.0	15.47	241.50	5,054.4	-458.4	-763.2	4.92	4.86	3.07	6.2	1.5
5,183.0	16.47	240.61	5,068.8	-460.4	-766.8	6.86	6.67	-5.93	6.0	1.4
5,196.0	17.34	240.11	5,081.2	-462.3	-770.1	6.79	6.69	-3.85	5.6	1.4
5,210.0	17.44	240.06	5,094.6	-464.4	-773.7	0.72	0.71	-0.36	5.0	1.3
5,223.0	17.54	240.02	5,107.0	-466.3	-777.1	0.77	0.77	-0.31	4.5	1.3
5,237.0	17.63	239.98	5,120.3	-468.5	-780.8	0.65	0.64	-0.29	3.8	1.2
5,250.0	17.72	239.93	5,132.7	-470.4	-784.2	0.70	0.69	-0.38	3.3	1.2
5,264.0	17.78	239.87	5,146.1	-472.6	-787.9	0.45	0.43	-0.43	2.6	1.1
5,277.0	17.81	239.79	5,158.4	-474.6	-791.3	0.30	0.23	-0.62	2.0	1.1
5,290.0	17.78	239.67	5,170.8	-476.6	-794.8	0.36	-0.23	-0.92	1.4	1.1
5,304.0	17.71	239.53	5,184.1	-478.7	-798.4	0.59	-0.50	-1.00	0.7	1.0
5,317.0	17.63	239.36	5,196.5	-480.7	-801.8	0.73	-0.62	-1.31	0.1	1.0
5,331.0	17.53	239.18	5,209.9	-482.9	-805.5	0.81	-0.71	-1.29	-0.5	1.0
5,344.0	17.43	238.99	5,222.3	-484.9	-808.8	0.89	-0.77	-1.46	-1.0	1.0
5,358.0	17.33	238.79	5,235.6	-487.1	-812.4	0.83	-0.71	-1.43	-1.6	1.0
5,371.0	17.24	238.58	5,248.1	-489.1	-815.7	0.84	-0.69	-1.62	-2.1	1.0
5,384.0	17.17	238.36	5,260.5	-491.1	-819.0	0.74	-0.54	-1.69	-2.6	1.1
5,398.0	17.12	238.14	5,273.8	-493.3	-822.5	0.58	-0.36	-1.57	-3.1	1.1
5,411.0	17.06	237.91	5,286.3	-495.3	-825.7	0.70	-0.46	-1.77	-3.5	1.2
5,425.0	17.02	237.68	5,299.7	-497.5	-829.2	0.56	-0.29	-1.64	-4.0	1.2
5,438.0	16.97	237.43	5,312.1	-499.5	-832.4	0.68	-0.38	-1.92	-4.4	1.3
5,452.0	16.91	237.17	5,325.5	-501.7	-835.8	0.69	-0.43	-1.86	-4.9	1.4
5,465.0	16.84	236.88	5,337.9	-503.8	-839.0	0.84	-0.54	-2.23	-5.3	1.5
5,479.0	16.75	236.55	5,351.3	-506.0	-842.4	0.94	-0.64	-2.36	-5.7	1.6
5,492.0	16.66	236.21	5,363.8	-508.1	-845.5	1.02	-0.69	-2.62	-6.1	1.8
5,506.0	16.56	235.87	5,377.2	-510.3	-848.8	1.00	-0.71	-2.43	-6.5	1.9

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
5,519.0	16.47	235.54	5,389.7	-512.4	-851.9	1.00	-0.69	-2.54	-6.8	2.1
5,533.0	16.40	235.25	5,403.1	-514.6	-855.1	0.77	-0.50	-2.07	-7.2	2.3
5,546.0	16.35	235.03	5,415.6	-516.7	-858.1	0.61	-0.38	-1.69	-7.5	2.5
5,560.0	16.35	234.91	5,429.0	-519.0	-861.4	0.24	0.00	-0.86	-7.8	2.7
5,573.0	16.43	234.96	5,441.5	-521.1	-864.4	0.62	0.62	0.38	-8.1	3.0
5,587.0	16.55	235.09	5,454.9	-523.4	-867.6	0.90	0.86	0.93	-8.5	3.3
5,600.0	16.69	235.27	5,467.3	-525.5	-870.7	1.15	1.08	1.38	-8.8	3.5
5,614.0	16.84	235.47	5,480.7	-527.8	-874.0	1.15	1.07	1.43	-9.2	3.8
5,627.0	16.98	235.64	5,493.2	-529.9	-877.1	1.14	1.08	1.31	-9.6	4.0
5,641.0	17.54	238.67	5,506.6	-532.2	-880.6	7.56	4.00	21.64	-9.9	4.7
5,654.0	18.21	241.87	5,518.9	-534.1	-884.1	9.14	5.15	24.62	-10.3	5.1
5,667.0	18.36	241.95	5,531.3	-536.1	-887.7	1.17	1.15	0.62	-11.0	5.0
5,681.0	18.50	242.02	5,544.6	-538.1	-891.6	1.01	1.00	0.50	-11.8	4.8
5,694.0	18.65	242.07	5,556.9	-540.1	-895.2	1.16	1.15	0.38	-12.6	4.7
5,708.0	18.77	242.12	5,570.1	-542.2	-899.2	0.86	0.86	0.36	-13.5	4.5
5,721.0	18.87	242.15	5,582.4	-544.1	-902.9	0.77	0.77	0.23	-14.3	4.3
5,735.0	18.91	242.15	5,595.7	-546.3	-906.9	0.29	0.29	0.00	-15.3	4.1
5,748.0	18.86	242.12	5,608.0	-548.2	-910.6	0.39	-0.38	-0.23	-16.1	3.9
5,761.0	18.69	242.03	5,620.3	-550.2	-914.3	1.33	-1.31	-0.69	-17.0	3.7
5,775.0	18.44	241.90	5,633.6	-552.3	-918.3	1.81	-1.79	-0.93	-17.8	3.5
5,788.0	18.14	241.74	5,645.9	-554.2	-921.9	2.34	-2.31	-1.23	-18.6	3.3
5,802.0	17.81	241.55	5,659.2	-556.3	-925.7	2.39	-2.36	-1.36	-19.3	3.1
5,815.0	17.49	241.33	5,671.6	-558.1	-929.1	2.51	-2.46	-1.69	-19.9	2.9
5,829.0	17.18	241.08	5,685.0	-560.2	-932.8	2.28	-2.21	-1.79	-20.5	2.7
5,842.0	16.91	240.80	5,697.4	-562.0	-936.1	2.17	-2.08	-2.15	-20.9	2.4
5,856.0	16.71	240.50	5,710.8	-564.0	-939.7	1.56	-1.43	-2.14	-21.3	2.2
5,869.0	16.56	240.17	5,723.3	-565.8	-942.9	1.36	-1.15	-2.54	-21.7	2.1

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
5,883.0	16.45	239.82	5,736.7	-567.8	-946.3	1.06	-0.79	-2.50	-22.1	1.9
5,896.0	16.35	239.47	5,749.2	-569.7	-949.5	1.08	-0.77	-2.69	-22.4	1.7
5,910.0	16.26	239.11	5,762.6	-571.7	-952.9	0.97	-0.64	-2.57	-22.7	1.6
5,923.0	16.18	238.74	5,775.1	-573.6	-956.0	1.01	-0.62	-2.85	-22.9	1.4
5,937.0	16.10	238.37	5,788.5	-575.6	-959.3	0.93	-0.57	-2.64	-23.2	1.3
5,952.0	16.00	237.96	5,802.9	-577.8	-962.8	1.01	-0.67	-2.73	-23.5	1.2
5,966.0	15.90	237.56	5,816.4	-579.8	-966.1	1.06	-0.71	-2.86	-23.7	1.1
5,981.0	15.80	237.16	5,830.8	-582.0	-969.5	0.99	-0.67	-2.67	-23.9	1.1
5,995.0	15.69	236.77	5,844.3	-584.1	-972.7	1.09	-0.79	-2.79	-24.1	1.1
6,010.0	15.58	236.40	5,858.8	-586.3	-976.1	0.99	-0.73	-2.47	-24.2	1.1
6,024.0	15.48	236.05	5,872.2	-588.4	-979.2	0.98	-0.71	-2.50	-24.3	1.2
6,039.0	15.36	235.74	5,886.7	-590.7	-982.5	0.97	-0.80	-2.07	-24.4	1.2
6,053.0	15.25	235.48	5,900.2	-592.7	-985.6	0.93	-0.79	-1.86	-24.5	1.4
6,068.0	15.13	235.30	5,914.7	-595.0	-988.8	0.86	-0.80	-1.20	-24.5	1.5
6,082.0	14.99	235.21	5,928.2	-597.0	-991.8	1.01	-1.00	-0.64	-24.5	1.7
6,097.0	14.85	235.29	5,942.7	-599.3	-995.0	0.94	-0.93	0.53	-24.5	2.0
6,111.0	14.68	235.60	5,956.2	-601.3	-997.9	1.34	-1.21	2.21	-24.4	2.4
6,126.0	14.48	236.27	5,970.8	-603.4	-1,001.0	1.74	-1.33	4.47	-24.2	2.9
6,139.0	14.25	237.50	5,983.3	-605.2	-1,003.7	2.94	-1.77	9.46	-24.0	3.5
6,153.0	14.01	239.05	5,996.9	-606.9	-1,006.6	3.20	-1.71	11.07	-23.7	4.2
6,166.0	13.78	240.78	6,009.5	-608.5	-1,009.3	3.65	-1.77	13.31	-23.3	4.8
6,180.0	13.58	242.55	6,023.1	-610.1	-1,012.3	3.31	-1.43	12.64	-22.8	5.4
6,193.0	13.42	244.18	6,035.8	-611.4	-1,015.0	3.18	-1.23	12.54	-22.3	5.7
6,207.0	14.50	243.84	6,049.4	-612.9	-1,018.0	7.74	7.71	-2.43	-22.0	5.3
6,220.0	14.73	244.51	6,062.0	-614.4	-1,021.0	2.20	1.77	5.15	-21.9	5.3
6,234.0	14.75	245.02	6,075.5	-615.9	-1,024.2	0.94	0.14	3.64	-21.8	5.1
6,247.0	14.83	245.30	6,088.1	-617.3	-1,027.2	0.83	0.62	2.15	-21.7	4.8



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
6,261.0	14.96	245.42	6,101.6	-618.8	-1,030.5	0.95	0.93	0.86	-21.7	4.5
6,274.0	15.11	245.43	6,114.1	-620.2	-1,033.5	1.15	1.15	0.08	-21.7	4.1
6,288.0	15.28	245.37	6,127.7	-621.7	-1,036.9	1.22	1.21	-0.43	-21.7	3.7
6,301.0	15.45	245.24	6,140.2	-623.1	-1,040.0	1.33	1.31	-1.00	-21.8	3.3
6,315.0	15.62	245.06	6,153.7	-624.7	-1,043.4	1.26	1.21	-1.29	-21.9	2.8
6,328.0	15.76	244.81	6,166.2	-626.2	-1,046.6	1.20	1.08	-1.92	-22.1	2.4
6,342.0	15.90	244.52	6,179.7	-627.8	-1,050.0	1.15	1.00	-2.07	-22.3	1.9
6,355.0	16.02	244.22	6,192.2	-629.4	-1,053.3	1.12	0.92	-2.31	-22.5	1.5
6,369.0	16.13	243.93	6,205.6	-631.1	-1,056.7	0.97	0.79	-2.07	-22.8	1.1
6,382.0	16.23	243.65	6,218.1	-632.7	-1,060.0	0.98	0.77	-2.15	-23.1	0.7
6,396.0	16.31	243.41	6,231.5	-634.4	-1,063.5	0.75	0.57	-1.71	-23.4	0.3
6,409.0	16.37	243.23	6,244.0	-636.1	-1,066.8	0.60	0.46	-1.38	-23.6	0.0
6,422.0	16.40	243.15	6,256.5	-637.7	-1,070.0	0.29	0.23	-0.62	-23.9	-0.3
6,436.0	16.40	243.13	6,269.9	-639.5	-1,073.6	0.04	0.00	-0.14	-24.3	-0.5
6,449.0	16.38	243.15	6,282.4	-641.2	-1,076.8	0.16	-0.15	0.15	-24.6	-0.8
6,463.0	16.35	243.20	6,295.8	-642.9	-1,080.4	0.24	-0.21	0.36	-24.9	-1.0
6,476.0	16.31	243.25	6,308.3	-644.6	-1,083.6	0.33	-0.31	0.38	-25.2	-1.2
6,490.0	16.24	243.31	6,321.7	-646.4	-1,087.1	0.51	-0.50	0.43	-25.5	-1.5
6,503.0	16.16	243.35	6,334.2	-648.0	-1,090.4	0.62	-0.62	0.31	-25.7	-1.7
6,517.0	16.06	243.38	6,347.7	-649.7	-1,093.8	0.72	-0.71	0.21	-26.0	-1.9
6,530.0	15.93	243.39	6,360.2	-651.3	-1,097.0	1.00	-1.00	0.08	-26.2	-2.2
6,544.0	15.79	243.38	6,373.6	-653.0	-1,100.5	1.00	-1.00	-0.07	-26.4	-2.5
6,557.0	15.64	243.37	6,386.1	-654.6	-1,103.6	1.15	-1.15	-0.08	-26.6	-2.7
6,571.0	15.48	243.36	6,399.6	-656.3	-1,107.0	1.14	-1.14	-0.07	-26.7	-3.0
6,584.0	15.32	243.34	6,412.2	-657.9	-1,110.1	1.23	-1.23	-0.15	-26.8	-3.3
6,598.0	15.14	243.31	6,425.7	-659.5	-1,113.3	1.29	-1.29	-0.21	-26.8	-3.5
6,611.0	14.96	243.29	6,438.2	-661.0	-1,116.4	1.39	-1.38	-0.15	-26.8	-3.8

Company: Midland
Project: Lea County, NM (NAD 83 NME)
Site: Modelo 3 Fed Com
Well: #529H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #529H
TVD Reference: kb = 26' @ 3671.0usft
MD Reference: kb = 26' @ 3671.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: PEDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
6,625.0	14.77	243.26	6,451.8	-662.6	-1,119.6	1.36	-1.36	-0.21	-26.8	-4.1
6,638.0	14.58	243.23	6,464.3	-664.1	-1,122.5	1.46	-1.46	-0.23	-26.7	-4.3
6,652.0	14.40	243.19	6,477.9	-665.7	-1,125.6	1.29	-1.29	-0.29	-26.5	-4.6
6,665.0	14.23	243.13	6,490.5	-667.1	-1,128.5	1.31	-1.31	-0.46	-26.4	-4.9
6,679.0	14.10	243.05	6,504.1	-668.7	-1,131.6	0.94	-0.93	-0.57	-26.1	-5.2
6,692.0	14.00	242.94	6,516.7	-670.1	-1,134.4	0.80	-0.77	-0.85	-25.9	-5.4
6,706.0	13.96	242.77	6,530.3	-671.7	-1,137.4	0.41	-0.29	-1.21	-25.6	-5.8
6,719.0	13.97	242.58	6,542.9	-673.1	-1,140.2	0.36	0.08	-1.46	-25.3	-6.0
6,733.0	14.00	242.37	6,556.5	-674.7	-1,143.2	0.42	0.21	-1.50	-25.1	-6.3
6,746.0	14.04	242.17	6,569.1	-676.1	-1,145.9	0.48	0.31	-1.54	-24.8	-6.6
6,760.0	14.09	241.99	6,582.7	-677.7	-1,149.0	0.47	0.36	-1.29	-24.5	-6.9
6,773.0	14.13	241.84	6,595.3	-679.2	-1,151.8	0.42	0.31	-1.15	-24.3	-7.1
6,787.0	14.15	241.75	6,608.8	-680.8	-1,154.8	0.21	0.14	-0.64	-24.0	-7.3
6,800.0	14.14	241.74	6,621.4	-682.4	-1,157.6	0.08	-0.08	-0.08	-23.8	-7.5
6,814.0	14.12	241.79	6,635.0	-684.0	-1,160.6	0.17	-0.14	0.36	-23.6	-7.6
6,827.0	14.08	241.86	6,647.6	-685.5	-1,163.4	0.33	-0.31	0.54	-23.4	-7.8
6,841.0	14.03	241.96	6,661.2	-687.1	-1,166.4	0.40	-0.36	0.71	-23.2	-7.9
6,854.0	13.98	242.06	6,673.8	-688.5	-1,169.1	0.43	-0.38	0.77	-22.9	-8.0
6,868.0	13.92	242.15	6,687.4	-690.1	-1,172.1	0.46	-0.43	0.64	-22.7	-8.2
6,881.0	13.86	242.22	6,700.0	-691.6	-1,174.9	0.48	-0.46	0.54	-22.4	-8.3
6,894.0	13.79	242.23	6,712.7	-693.0	-1,177.6	0.54	-0.54	0.08	-22.1	-8.5
6,908.0	13.72	242.22	6,726.3	-694.6	-1,180.6	0.50	-0.50	-0.07	-21.8	-8.7
6,921.0	13.66	242.18	6,738.9	-696.0	-1,183.3	0.47	-0.46	-0.31	-21.5	-8.9
6,935.0	13.59	242.13	6,752.5	-697.6	-1,186.2	0.51	-0.50	-0.36	-21.1	-9.1
6,948.0	13.54	242.08	6,765.1	-699.0	-1,188.9	0.40	-0.38	-0.38	-20.8	-9.3
6,962.0	13.49	242.01	6,778.7	-700.5	-1,191.8	0.38	-0.36	-0.50	-20.4	-9.5
6,975.0	13.45	241.95	6,791.4	-701.9	-1,194.5	0.33	-0.31	-0.46	-20.0	-9.7



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
6,989.0	13.45	241.87	6,805.0	-703.5	-1,197.4	0.13	0.00	-0.57	-19.6	-9.9
7,002.0	13.45	241.80	6,817.6	-704.9	-1,200.0	0.13	0.00	-0.54	-19.2	-10.1
7,016.0	13.46	241.72	6,831.3	-706.4	-1,202.9	0.15	0.07	-0.57	-18.8	-10.3
7,029.0	13.48	241.66	6,843.9	-707.9	-1,205.6	0.19	0.15	-0.46	-18.4	-10.5
7,043.0	13.49	241.59	6,857.5	-709.4	-1,208.4	0.14	0.07	-0.50	-18.0	-10.6
7,056.0	13.49	241.54	6,870.2	-710.9	-1,211.1	0.09	0.00	-0.38	-17.7	-10.8
7,070.0	13.48	241.51	6,883.8	-712.4	-1,214.0	0.09	-0.07	-0.21	-17.3	-11.0
7,083.0	13.44	241.50	6,896.4	-713.9	-1,216.6	0.31	-0.31	-0.08	-16.9	-11.1
7,097.0	13.38	241.51	6,910.0	-715.4	-1,219.5	0.43	-0.43	0.07	-16.5	-11.3
7,110.0	13.31	241.53	6,922.7	-716.8	-1,222.1	0.54	-0.54	0.15	-16.1	-11.4
7,124.0	13.23	241.55	6,936.3	-718.4	-1,224.9	0.57	-0.57	0.14	-15.7	-11.5
7,137.0	13.14	241.58	6,949.0	-719.8	-1,227.5	0.69	-0.69	0.23	-15.2	-11.7
7,151.0	13.05	241.61	6,962.6	-721.3	-1,230.3	0.64	-0.64	0.21	-14.8	-11.8
7,164.0	12.95	241.64	6,975.3	-722.7	-1,232.9	0.77	-0.77	0.23	-14.3	-12.0
7,177.0	12.83	241.66	6,987.9	-724.1	-1,235.5	0.92	-0.92	0.15	-13.8	-12.1
7,191.0	12.72	241.67	7,001.6	-725.5	-1,238.2	0.79	-0.79	0.07	-13.2	-12.3
7,204.0	12.59	241.68	7,014.3	-726.9	-1,240.7	1.00	-1.00	0.08	-12.7	-12.4
7,218.0	12.46	241.69	7,027.9	-728.3	-1,243.4	0.93	-0.93	0.07	-12.1	-12.6
7,231.0	12.32	241.70	7,040.6	-729.6	-1,245.8	1.08	-1.08	0.08	-11.5	-12.7
7,245.0	12.17	241.71	7,054.3	-731.1	-1,248.4	1.07	-1.07	0.07	-10.8	-12.9
7,258.0	12.00	241.72	7,067.0	-732.3	-1,250.8	1.31	-1.31	0.08	-10.1	-13.1
7,272.0	11.80	241.72	7,080.7	-733.7	-1,253.4	1.43	-1.43	0.00	-9.3	-13.2
7,285.0	11.59	241.72	7,093.5	-735.0	-1,255.7	1.62	-1.62	0.00	-8.5	-13.4
7,299.0	11.38	241.72	7,107.2	-736.3	-1,258.1	1.50	-1.50	0.00	-7.7	-13.5
7,312.0	11.17	241.72	7,119.9	-737.5	-1,260.4	1.62	-1.62	0.00	-6.8	-13.7
7,326.0	10.99	241.70	7,133.7	-738.8	-1,262.8	1.29	-1.29	-0.14	-5.8	-13.9
7,339.0	10.82	241.67	7,146.4	-739.9	-1,264.9	1.31	-1.31	-0.23	-4.9	-14.0

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	PEDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
7,353.0	10.71	241.61	7,160.2	-741.2	-1,267.2	0.79	-0.79	-0.43	-3.8	-14.2
7,366.0	10.68	241.51	7,173.0	-742.3	-1,269.3	0.27	-0.23	-0.77	-2.8	-14.3
7,380.0	10.69	241.38	7,186.7	-743.6	-1,271.6	0.19	0.07	-0.93	-1.7	-14.5
7,393.0	10.72	241.23	7,199.5	-744.7	-1,273.7	0.31	0.23	-1.15	-0.7	-14.6
7,407.0	10.76	241.07	7,213.2	-746.0	-1,276.0	0.36	0.29	-1.14	0.4	-14.7
7,420.0	10.80	240.89	7,226.0	-747.2	-1,278.2	0.40	0.31	-1.38	1.5	-14.8
7,434.0	10.81	240.69	7,239.8	-748.4	-1,280.4	0.28	0.07	-1.43	2.5	-14.9
7,447.0	10.78	240.46	7,252.5	-749.6	-1,282.6	0.40	-0.23	-1.77	3.6	-15.0
7,460.0	10.67	240.17	7,265.3	-750.8	-1,284.7	0.94	-0.85	-2.23	4.6	-15.1
7,474.0	10.53	239.86	7,279.1	-752.1	-1,286.9	1.08	-1.00	-2.21	5.8	-15.1
7,487.0	10.36	239.55	7,291.9	-753.3	-1,288.9	1.38	-1.31	-2.38	6.9	-15.1
7,501.0	10.18	239.28	7,305.6	-754.6	-1,291.1	1.33	-1.29	-1.93	8.2	-15.1
7,514.0	10.02	239.08	7,318.4	-755.7	-1,293.0	1.26	-1.23	-1.54	9.4	-15.1
7,528.0	9.88	239.02	7,332.2	-757.0	-1,295.1	1.00	-1.00	-0.43	10.6	-15.1
7,541.0	9.79	239.16	7,345.0	-758.1	-1,297.0	0.72	-0.69	1.08	11.8	-15.1
7,555.0	9.79	239.65	7,358.8	-759.3	-1,299.1	0.60	0.00	3.50	13.0	-15.2
7,568.0	9.84	240.33	7,371.6	-760.5	-1,301.0	0.97	0.38	5.23	14.0	-15.4
7,582.0	9.92	241.08	7,385.4	-761.6	-1,303.1	1.08	0.57	5.36	15.0	-15.7
7,595.0	10.00	241.83	7,398.2	-762.7	-1,305.1	1.17	0.62	5.77	16.0	-16.1
7,609.0	10.07	242.50	7,412.0	-763.8	-1,307.2	0.97	0.50	4.79	17.1	-16.4
7,622.0	10.74	243.52	7,424.8	-764.9	-1,309.3	5.34	5.15	7.85	17.8	-17.0
7,636.0	11.47	245.46	7,438.5	-766.1	-1,311.7	5.86	5.21	13.86	18.2	-17.9
7,649.0	11.43	245.63	7,451.3	-767.1	-1,314.1	0.40	-0.31	1.31	19.0	-18.3
7,663.0	11.37	245.71	7,465.0	-768.3	-1,316.6	0.44	-0.43	0.57	19.8	-18.8
7,676.0	11.29	245.74	7,477.8	-769.3	-1,318.9	0.62	-0.62	0.23	20.6	-19.2
7,690.0	11.20	245.74	7,491.5	-770.4	-1,321.4	0.64	-0.64	0.00	21.6	-19.6
7,703.0	11.10	245.72	7,504.2	-771.5	-1,323.7	0.77	-0.77	-0.15	22.4	-20.0

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	PEDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
7,717.0	10.99	245.69	7,518.0	-772.6	-1,326.2	0.79	-0.79	-0.21	23.4	-20.4
7,730.0	10.86	245.68	7,530.7	-773.6	-1,328.4	1.00	-1.00	-0.08	24.3	-20.8
7,743.0	10.72	245.72	7,543.5	-774.6	-1,330.6	1.08	-1.08	0.31	25.3	-21.2
7,757.0	10.56	245.78	7,557.3	-775.7	-1,333.0	1.15	-1.14	0.43	26.3	-21.6
7,770.0	10.40	245.86	7,570.1	-776.6	-1,335.1	1.24	-1.23	0.62	27.3	-22.1
7,784.0	10.23	245.93	7,583.8	-777.7	-1,337.4	1.22	-1.21	0.50	28.3	-22.5
7,797.0	10.07	245.99	7,596.6	-778.6	-1,339.5	1.23	-1.23	0.46	29.3	-22.9
7,811.0	9.90	246.03	7,610.4	-779.6	-1,341.7	1.22	-1.21	0.29	30.3	-23.4
7,824.0	9.75	246.02	7,623.2	-780.5	-1,343.8	1.15	-1.15	-0.08	31.2	-23.7
7,837.0	9.60	245.94	7,636.0	-781.4	-1,345.8	1.16	-1.15	-0.62	32.1	-24.1
7,851.0	9.46	245.81	7,649.8	-782.3	-1,347.9	1.01	-1.00	-0.93	33.1	-24.4
7,864.0	9.32	245.65	7,662.7	-783.2	-1,349.8	1.10	-1.08	-1.23	34.0	-24.6
7,878.0	9.19	245.45	7,676.5	-784.1	-1,351.9	0.96	-0.93	-1.43	34.9	-24.9
7,891.0	9.07	245.24	7,689.3	-785.0	-1,353.7	0.96	-0.92	-1.62	35.8	-25.0
7,905.0	8.95	245.01	7,703.2	-785.9	-1,355.7	0.89	-0.86	-1.64	36.7	-25.2
7,918.0	8.84	244.77	7,716.0	-786.8	-1,357.5	0.89	-0.85	-1.85	37.5	-25.3
7,932.0	8.73	244.53	7,729.8	-787.7	-1,359.5	0.83	-0.79	-1.71	38.3	-25.4
7,945.0	8.64	244.28	7,742.7	-788.5	-1,361.2	0.75	-0.69	-1.92	39.1	-25.5
7,959.0	8.54	244.03	7,756.5	-789.4	-1,363.1	0.76	-0.71	-1.79	39.8	-25.6
7,972.0	8.45	243.78	7,769.4	-790.3	-1,364.9	0.75	-0.69	-1.92	40.5	-25.6
7,986.0	8.36	243.54	7,783.2	-791.2	-1,366.7	0.69	-0.64	-1.71	41.1	-25.7
7,999.0	8.27	243.31	7,796.1	-792.0	-1,368.4	0.74	-0.69	-1.77	41.7	-25.7
8,013.0	8.18	243.11	7,810.0	-792.9	-1,370.2	0.67	-0.64	-1.43	42.3	-25.7
8,026.0	8.07	242.96	7,822.8	-793.8	-1,371.8	0.86	-0.85	-1.15	42.7	-25.8
8,040.0	7.97	242.84	7,836.7	-794.6	-1,373.5	0.72	-0.71	-0.86	43.2	-25.8
8,053.0	7.86	242.73	7,849.6	-795.5	-1,375.1	0.85	-0.85	-0.85	43.5	-25.9



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)	
8,066.4	7.76	242.63	7,862.8	-796.3	-1,376.7	0.72	-0.71	-0.71	43.8	-25.9	
LL Crossing, MD:8066.4', TVD:7862.8', N/S:-796.3', E/W:-1376.7', INC:7.76											
8,067.0	7.76	242.63	7,863.4	-796.3	-1,376.8	0.72	-0.71	-0.72	43.9	-25.9	
8,080.0	7.66	242.54	7,876.3	-797.1	-1,378.4	0.77	-0.77	-0.69	44.1	-26.0	
8,094.0	7.58	242.43	7,890.2	-798.0	-1,380.0	0.58	-0.57	-0.79	44.4	-26.0	
8,107.0	7.51	242.30	7,903.1	-798.8	-1,381.5	0.55	-0.54	-1.00	44.6	-26.0	
8,120.0	7.48	242.14	7,916.0	-799.6	-1,383.0	0.28	-0.23	-1.23	44.8	-26.0	
8,134.0	7.46	241.96	7,929.8	-800.4	-1,384.6	0.22	-0.14	-1.29	44.9	-26.0	
8,147.0	7.45	241.77	7,942.7	-801.2	-1,386.1	0.20	-0.08	-1.46	45.0	-25.9	
8,161.0	7.44	241.58	7,956.6	-802.1	-1,387.7	0.19	-0.07	-1.36	45.0	-25.8	
8,174.0	7.44	241.41	7,969.5	-802.9	-1,389.2	0.17	0.00	-1.31	44.9	-25.8	
8,188.0	7.42	241.26	7,983.4	-803.8	-1,390.8	0.20	-0.14	-1.07	44.8	-25.7	
8,201.0	7.40	241.14	7,996.3	-804.6	-1,392.3	0.19	-0.15	-0.92	44.6	-25.7	
8,215.0	7.35	241.08	8,010.2	-805.4	-1,393.8	0.36	-0.36	-0.43	44.3	-25.7	
8,228.0	7.28	241.06	8,023.1	-806.2	-1,395.3	0.54	-0.54	-0.15	44.0	-25.7	
8,242.0	7.21	241.05	8,037.0	-807.1	-1,396.8	0.50	-0.50	-0.07	43.5	-25.7	
8,255.0	7.13	241.05	8,049.8	-807.9	-1,398.2	0.62	-0.62	0.00	43.1	-25.8	
8,269.0	7.04	241.05	8,063.7	-808.7	-1,399.7	0.64	-0.64	0.00	42.6	-25.8	
8,282.0	6.96	241.04	8,076.6	-809.5	-1,401.1	0.62	-0.62	-0.08	42.0	-25.9	
8,296.0	6.88	240.99	8,090.5	-810.3	-1,402.6	0.57	-0.57	-0.36	41.4	-25.9	
8,309.0	6.80	240.88	8,103.5	-811.0	-1,404.0	0.62	-0.62	-0.85	40.9	-25.8	
8,323.0	6.72	240.73	8,117.4	-811.9	-1,405.4	0.59	-0.57	-1.07	40.2	-25.7	
8,336.0	6.65	240.56	8,130.3	-812.6	-1,406.7	0.56	-0.54	-1.31	39.6	-25.7	
8,350.0	6.57	240.37	8,144.2	-813.4	-1,408.1	0.59	-0.57	-1.36	38.9	-25.5	
8,363.0	6.49	240.18	8,157.1	-814.1	-1,409.4	0.64	-0.62	-1.46	38.2	-25.4	
8,377.0	6.41	239.98	8,171.0	-814.9	-1,410.8	0.59	-0.57	-1.43	37.3	-25.3	
8,390.0	6.32	239.78	8,183.9	-815.6	-1,412.0	0.71	-0.69	-1.54	36.5	-25.2	



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
8,404.0	6.21	239.60	8,197.8	-816.4	-1,413.3	0.80	-0.79	-1.29	35.6	-25.1
8,417.0	6.10	239.43	8,210.8	-817.1	-1,414.5	0.86	-0.85	-1.31	34.7	-25.0
8,431.0	5.98	239.25	8,224.7	-817.9	-1,415.8	0.87	-0.86	-1.29	33.8	-24.9
8,444.0	5.86	239.09	8,237.6	-818.5	-1,417.0	0.93	-0.92	-1.23	32.8	-24.8
8,458.0	5.75	238.93	8,251.5	-819.3	-1,418.2	0.79	-0.79	-1.14	31.7	-24.7
8,471.0	5.65	238.78	8,264.5	-819.9	-1,419.3	0.78	-0.77	-1.15	30.7	-24.6
8,485.0	5.56	238.65	8,278.4	-820.7	-1,420.4	0.65	-0.64	-0.93	29.5	-24.6
8,498.0	5.51	238.55	8,291.3	-821.3	-1,421.5	0.39	-0.38	-0.77	28.4	-24.5
8,512.0	5.47	238.47	8,305.3	-822.0	-1,422.7	0.29	-0.29	-0.57	27.1	-24.5
8,525.0	5.43	238.39	8,318.2	-822.7	-1,423.7	0.31	-0.31	-0.62	25.9	-24.4
8,539.0	5.40	238.32	8,332.2	-823.3	-1,424.8	0.22	-0.21	-0.50	24.6	-24.4
8,552.0	5.35	238.24	8,345.1	-824.0	-1,425.9	0.39	-0.38	-0.62	23.4	-24.4
8,566.0	5.29	238.13	8,359.0	-824.7	-1,427.0	0.43	-0.43	-0.79	22.1	-24.3
8,579.0	5.19	237.97	8,372.0	-825.3	-1,428.0	0.78	-0.77	-1.23	21.0	-24.3
8,592.0	5.04	237.74	8,384.9	-825.9	-1,429.0	1.16	-1.15	-1.77	20.0	-24.2
8,606.0	4.86	237.44	8,398.9	-826.6	-1,430.0	1.30	-1.29	-2.14	18.9	-24.1
8,619.0	4.67	237.07	8,411.8	-827.1	-1,430.9	1.48	-1.46	-2.85	18.0	-23.9
8,633.0	4.48	236.62	8,425.8	-827.8	-1,431.8	1.38	-1.36	-3.21	17.0	-23.8
8,646.0	4.30	236.09	8,438.8	-828.3	-1,432.7	1.42	-1.38	-4.08	16.3	-23.6
8,660.0	4.16	235.46	8,452.7	-828.9	-1,433.5	1.05	-1.00	-4.50	15.5	-23.5
8,673.0	3.60	235.00	8,465.7	-829.4	-1,434.2	4.31	-4.31	-3.54	14.8	-23.3
8,687.0	2.75	229.71	8,479.7	-829.9	-1,434.8	6.42	-6.07	-37.79	16.1	-21.9
8,700.0	2.41	218.79	8,492.7	-830.3	-1,435.3	4.59	-2.62	-84.00	19.4	-18.5
8,714.0	2.52	216.43	8,506.6	-830.8	-1,435.6	1.07	0.79	-16.86	19.6	-17.7
8,727.0	2.68	214.17	8,519.6	-831.2	-1,436.0	1.46	1.23	-17.38	19.6	-16.9
8,741.0	2.85	212.26	8,533.6	-831.8	-1,436.3	1.38	1.21	-13.64	19.5	-16.3
8,754.0	3.01	210.84	8,546.6	-832.4	-1,436.7	1.35	1.23	-10.92	19.3	-15.8



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
8,768.0	3.14	210.01	8,560.6	-833.0	-1,437.1	0.98	0.93	-5.93	18.7	-15.5
8,781.0	3.20	209.77	8,573.6	-833.6	-1,437.4	0.47	0.46	-1.85	18.1	-15.4
8,795.0	3.23	210.10	8,587.5	-834.3	-1,437.8	0.25	0.21	2.36	17.2	-15.6
8,808.0	3.23	210.80	8,600.5	-834.9	-1,438.2	0.30	0.00	5.38	16.3	-15.8
8,822.0	3.22	211.75	8,614.5	-835.6	-1,438.6	0.39	-0.07	6.79	15.2	-16.0
8,835.0	3.21	212.84	8,627.5	-836.2	-1,439.0	0.48	-0.08	8.38	14.2	-16.3
8,849.0	3.20	213.97	8,641.5	-836.9	-1,439.4	0.46	-0.07	8.07	13.1	-16.6
8,862.0	3.20	215.02	8,654.4	-837.5	-1,439.8	0.45	0.00	8.08	12.1	-16.8
8,876.0	3.20	215.86	8,668.4	-838.1	-1,440.3	0.33	0.00	6.00	11.0	-17.0
8,889.0	3.20	216.60	8,681.4	-838.7	-1,440.7	0.32	0.00	5.69	10.1	-17.1
8,903.0	3.21	217.28	8,695.4	-839.3	-1,441.2	0.28	0.07	4.86	9.1	-17.2
8,916.0	3.22	217.96	8,708.3	-839.9	-1,441.6	0.30	0.08	5.23	8.2	-17.3
8,930.0	3.21	218.66	8,722.3	-840.5	-1,442.1	0.29	-0.07	5.00	7.2	-17.4
8,943.0	3.20	219.43	8,735.3	-841.1	-1,442.6	0.34	-0.08	5.92	6.2	-17.5
8,957.0	3.16	220.34	8,749.3	-841.7	-1,443.1	0.46	-0.29	6.50	5.1	-17.6
8,970.0	3.09	221.37	8,762.3	-842.2	-1,443.5	0.69	-0.54	7.92	4.1	-17.7
8,984.0	2.99	222.59	8,776.2	-842.8	-1,444.0	0.85	-0.71	8.71	3.0	-17.7
8,997.0	2.88	223.98	8,789.2	-843.3	-1,444.5	1.01	-0.85	10.69	1.9	-17.8
9,011.0	2.78	225.58	8,803.2	-843.8	-1,445.0	0.91	-0.71	11.43	0.7	-17.8
9,024.0	2.68	227.41	8,816.2	-844.2	-1,445.4	1.02	-0.77	14.08	-0.5	-17.8
9,038.0	2.59	229.46	8,830.2	-844.6	-1,445.9	0.93	-0.64	14.64	-1.7	-17.8
9,051.0	2.53	231.73	8,843.2	-845.0	-1,446.3	0.91	-0.46	17.46	-3.0	-17.7
9,064.0	2.50	234.09	8,856.2	-845.3	-1,446.8	0.83	-0.23	18.15	-4.3	-17.6
9,078.0	2.48	236.58	8,870.1	-845.7	-1,447.3	0.79	-0.14	17.79	-5.7	-17.3
9,091.0	2.49	239.05	8,883.1	-846.0	-1,447.8	0.83	0.08	19.00	-7.0	-17.1
9,105.0	2.50	241.38	8,897.1	-846.3	-1,448.3	0.73	0.07	16.64	-8.3	-16.8
9,118.0	2.51	243.45	8,910.1	-846.5	-1,448.8	0.70	0.08	15.92	-9.5	-16.4



Final PVA

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Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
9,132.0	2.51	245.12	8,924.1	-846.8	-1,449.4	0.52	0.00	11.93	-10.5	-16.1
9,145.0	2.49	246.22	8,937.1	-847.0	-1,449.9	0.40	-0.15	8.46	-11.4	-15.9
9,158.0	2.42	246.09	8,950.1	-847.3	-1,450.4	0.54	-0.54	-1.00	-11.9	-16.0
9,172.0	2.34	245.24	8,964.1	-847.5	-1,450.9	0.62	-0.57	-6.07	-12.3	-16.1
9,185.0	2.24	243.91	8,977.0	-847.7	-1,451.4	0.87	-0.77	-10.23	-12.4	-16.4
9,199.0	2.16	242.33	8,991.0	-848.0	-1,451.9	0.72	-0.57	-11.29	-12.5	-16.8
9,212.0	2.09	240.82	9,004.0	-848.2	-1,452.3	0.69	-0.54	-11.62	-12.5	-17.1
9,226.0	1.43	240.19	9,018.0	-848.4	-1,452.7	4.72	-4.71	-4.50	-12.8	-17.2
9,239.0	0.64	219.82	9,031.0	-848.5	-1,452.8	6.61	-6.08	-156.69	-6.2	-20.7
9,253.0	0.40	187.31	9,045.0	-848.6	-1,452.9	2.65	-1.71	-232.21	5.8	-20.8
9,266.0	0.34	212.97	9,058.0	-848.7	-1,452.9	1.34	-0.46	197.38	-3.9	-21.2
9,280.0	0.36	241.61	9,072.0	-848.8	-1,453.0	1.24	0.14	204.57	-13.7	-16.7
9,293.0	0.46	262.50	9,085.0	-848.8	-1,453.1	1.37	0.77	160.69	-18.8	-10.7
9,307.0	0.59	275.16	9,099.0	-848.8	-1,453.2	1.24	0.93	90.43	-20.9	-6.3
9,320.0	0.74	282.93	9,112.0	-848.8	-1,453.4	1.34	1.15	59.77	-21.7	-3.5
9,334.0	0.90	288.01	9,126.0	-848.7	-1,453.6	1.25	1.14	36.29	-22.1	-1.5
9,347.0	1.06	286.01	9,139.0	-848.7	-1,453.8	1.26	1.23	-15.38	-22.3	-2.3
9,361.0	1.23	284.56	9,153.0	-848.6	-1,454.0	1.23	1.21	-10.36	-22.5	-2.9
9,374.0	1.40	283.45	9,166.0	-848.5	-1,454.3	1.32	1.31	-8.54	-22.7	-3.3
9,388.0	1.57	282.58	9,180.0	-848.4	-1,454.7	1.22	1.21	-6.21	-23.0	-3.6
9,401.0	1.74	281.87	9,193.0	-848.4	-1,455.0	1.32	1.31	-5.46	-23.3	-3.9
9,415.0	1.91	281.29	9,207.0	-848.3	-1,455.5	1.22	1.21	-4.14	-23.8	-4.2
9,428.0	2.08	280.81	9,220.0	-848.2	-1,455.9	1.31	1.31	-3.69	-24.2	-4.4
9,441.0	2.17	282.28	9,233.0	-848.1	-1,456.4	0.81	0.69	11.31	-24.8	-3.7
9,455.0	2.27	283.83	9,247.0	-848.0	-1,456.9	0.83	0.71	11.07	-25.4	-3.1
9,468.0	2.38	285.34	9,259.9	-847.8	-1,457.4	0.97	0.85	11.62	-26.0	-2.4
9,482.0	2.51	286.68	9,273.9	-847.7	-1,458.0	1.01	0.93	9.57	-26.6	-1.8



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
9,495.0	2.65	287.77	9,286.9	-847.5	-1,458.6	1.14	1.08	8.38	-27.2	-1.3
9,509.0	2.80	288.54	9,300.9	-847.3	-1,459.2	1.10	1.07	5.50	-27.9	-0.9
9,522.0	2.98	288.90	9,313.9	-847.1	-1,459.8	1.39	1.38	2.77	-28.6	-0.7
9,535.0	3.19	289.19	9,326.9	-846.8	-1,460.5	1.62	1.62	2.23	-29.3	-0.6
9,549.0	3.42	289.28	9,340.8	-846.6	-1,461.2	1.64	1.64	0.64	-30.1	-0.5
9,562.0	3.66	289.34	9,353.8	-846.3	-1,462.0	1.85	1.85	0.46	-30.9	-0.5
9,576.0	3.90	289.49	9,367.8	-846.0	-1,462.9	1.72	1.71	1.07	-31.8	-0.4
9,589.0	4.13	289.85	9,380.8	-845.7	-1,463.7	1.78	1.77	2.77	-32.7	-0.2
9,603.0	4.34	290.56	9,394.7	-845.3	-1,464.7	1.55	1.50	5.07	-33.8	0.2
9,616.0	4.52	291.82	9,407.7	-845.0	-1,465.6	1.57	1.38	9.69	-34.8	1.0
9,629.0	4.64	293.94	9,420.6	-844.6	-1,466.6	1.60	0.92	16.31	-35.7	2.3
9,643.0	4.75	296.44	9,434.6	-844.1	-1,467.6	1.66	0.79	17.86	-36.8	3.9
9,656.0	4.84	298.94	9,447.5	-843.6	-1,468.6	1.75	0.69	19.23	-37.6	5.5
9,670.0	4.94	301.12	9,461.5	-843.0	-1,469.6	1.51	0.71	15.57	-38.6	7.0
9,683.0	5.05	302.61	9,474.4	-842.4	-1,470.6	1.31	0.85	11.46	-39.5	8.0
9,697.0	4.70	303.62	9,488.4	-841.7	-1,471.6	2.57	-2.50	7.21	-40.6	8.7
9,710.0	4.13	308.90	9,501.4	-841.1	-1,472.4	5.38	-4.38	40.62	-40.6	12.4
9,724.0	3.42	315.47	9,515.3	-840.5	-1,473.1	5.93	-5.07	46.93	-39.8	17.0
9,737.0	3.51	312.62	9,528.3	-840.0	-1,473.6	1.49	0.69	-21.92	-41.4	15.0
9,751.0	3.82	308.40	9,542.3	-839.4	-1,474.3	2.93	2.21	-30.14	-43.3	11.9
9,764.0	4.18	304.46	9,555.2	-838.9	-1,475.0	3.48	2.77	-30.31	-44.9	8.9
9,778.0	4.58	301.14	9,569.2	-838.3	-1,475.9	3.38	2.86	-23.71	-46.4	6.2
9,791.0	4.98	298.59	9,582.2	-837.8	-1,476.9	3.48	3.08	-19.62	-47.7	4.1
9,805.0	5.35	296.90	9,596.1	-837.2	-1,478.0	2.86	2.64	-12.07	-49.1	2.7
9,818.0	5.59	294.72	9,609.0	-836.6	-1,479.1	2.44	1.85	-16.77	-50.4	0.8
9,832.0	5.82	293.21	9,623.0	-836.1	-1,480.4	1.96	1.64	-10.79	-51.8	-0.6
9,845.0	6.02	292.11	9,635.9	-835.5	-1,481.6	1.77	1.54	-8.46	-53.1	-1.6



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
9,859.0	6.20	291.23	9,649.8	-835.0	-1,483.0	1.45	1.29	-6.29	-54.6	-2.4
9,872.0	6.35	290.45	9,662.7	-834.5	-1,484.3	1.33	1.15	-6.00	-56.0	-3.2
9,886.0	6.04	288.16	9,676.7	-834.0	-1,485.8	2.83	-2.21	-16.36	-57.3	-5.4
9,899.0	5.56	288.61	9,689.6	-833.6	-1,487.0	3.71	-3.69	3.46	-58.7	-5.0
9,912.0	4.95	288.48	9,702.5	-833.2	-1,488.1	4.69	-4.69	-1.00	-59.8	-5.1
9,926.0	4.16	284.49	9,716.5	-832.9	-1,489.2	6.08	-5.64	-28.50	-60.4	-9.3
9,939.0	4.03	281.64	9,729.5	-832.7	-1,490.1	1.86	-1.00	-21.92	-60.8	-12.3
9,953.0	4.00	279.29	9,743.4	-832.5	-1,491.1	1.19	-0.21	-16.79	-61.3	-14.8
9,966.0	3.96	276.88	9,756.4	-832.4	-1,492.0	1.32	-0.31	-18.54	-61.5	-17.4
9,980.0	3.94	274.63	9,770.4	-832.3	-1,492.9	1.12	-0.14	-16.07	-61.7	-19.9
9,993.0	3.93	272.81	9,783.3	-832.2	-1,493.8	0.96	-0.08	-14.00	-61.9	-21.8
10,007.0	3.96	271.78	9,797.3	-832.2	-1,494.8	0.55	0.21	-7.36	-62.5	-22.9
10,020.0	4.00	271.23	9,810.3	-832.1	-1,495.7	0.43	0.31	-4.23	-63.2	-23.5
10,034.0	4.06	270.98	9,824.2	-832.1	-1,496.7	0.45	0.43	-1.79	-64.1	-23.8
10,047.0	4.12	270.90	9,837.2	-832.1	-1,497.6	0.46	0.46	-0.62	-65.0	-23.9
10,061.0	4.17	270.90	9,851.2	-832.1	-1,498.6	0.36	0.36	0.00	-66.0	-23.9
10,074.0	4.22	270.92	9,864.1	-832.1	-1,499.6	0.38	0.38	0.15	-66.9	-23.9
10,088.0	4.24	270.88	9,878.1	-832.1	-1,500.6	0.14	0.14	-0.29	-67.9	-23.9
10,101.0	4.24	270.69	9,891.1	-832.1	-1,501.5	0.11	0.00	-1.46	-68.8	-24.2
10,115.0	4.21	270.39	9,905.0	-832.0	-1,502.6	0.27	-0.21	-2.14	-69.7	-24.5
10,128.0	4.17	270.02	9,918.0	-832.0	-1,503.5	0.37	-0.31	-2.85	-70.5	-25.0
10,142.0	4.12	269.60	9,931.9	-832.0	-1,504.5	0.42	-0.36	-3.00	-71.3	-25.5
10,155.0	4.06	269.15	9,944.9	-832.1	-1,505.5	0.52	-0.46	-3.46	-72.1	-26.1
10,169.0	4.01	268.70	9,958.9	-832.1	-1,506.5	0.42	-0.36	-3.21	-72.8	-26.6
10,182.0	3.96	268.27	9,971.9	-832.1	-1,507.4	0.45	-0.38	-3.31	-73.5	-27.2
10,196.0	3.92	267.92	9,985.8	-832.1	-1,508.3	0.33	-0.29	-2.50	-74.3	-27.6
10,209.0	3.88	267.61	9,998.8	-832.2	-1,509.2	0.35	-0.31	-2.38	-75.1	-28.0



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
10,223.0	3.85	267.32	10,012.8	-832.2	-1,510.1	0.26	-0.21	-2.07	-75.9	-28.4
10,236.0	3.83	267.04	10,025.7	-832.2	-1,511.0	0.21	-0.15	-2.15	-76.6	-28.8
10,250.0	3.80	266.76	10,039.7	-832.3	-1,511.9	0.25	-0.21	-2.00	-77.4	-29.2
10,263.0	3.78	266.48	10,052.7	-832.3	-1,512.8	0.21	-0.15	-2.15	-78.1	-29.6
10,277.0	3.77	266.18	10,066.6	-832.4	-1,513.7	0.16	-0.07	-2.14	-78.9	-30.0
10,290.0	3.77	265.88	10,079.6	-832.5	-1,514.6	0.15	0.00	-2.31	-79.6	-30.4
10,304.0	3.78	265.55	10,093.6	-832.5	-1,515.5	0.17	0.07	-2.36	-80.3	-30.8
10,317.0	3.78	265.17	10,106.5	-832.6	-1,516.3	0.19	0.00	-2.92	-81.0	-31.4
10,331.0	3.78	264.72	10,120.5	-832.7	-1,517.3	0.21	0.00	-3.21	-81.6	-32.0
10,344.0	3.77	264.16	10,133.5	-832.8	-1,518.1	0.29	-0.08	-4.31	-82.2	-32.8
10,358.0	3.74	263.45	10,147.5	-832.9	-1,519.0	0.40	-0.21	-5.07	-82.7	-33.8
10,371.0	3.69	262.49	10,160.4	-833.0	-1,519.9	0.61	-0.38	-7.38	-83.0	-35.2
10,385.0	3.59	261.11	10,174.4	-833.1	-1,520.7	0.95	-0.71	-9.86	-83.0	-37.2
10,399.0	3.47	259.36	10,188.4	-833.2	-1,521.6	1.15	-0.86	-12.50	-82.7	-39.8
10,414.0	3.33	257.25	10,203.4	-833.4	-1,522.5	1.25	-0.93	-14.07	-82.0	-42.8
10,428.0	3.20	254.75	10,217.3	-833.6	-1,523.2	1.38	-0.93	-17.86	-80.9	-46.3
10,442.0	3.09	251.83	10,231.3	-833.8	-1,524.0	1.39	-0.79	-20.86	-79.2	-50.4
10,456.0	2.97	248.74	10,245.3	-834.1	-1,524.7	1.45	-0.86	-22.07	-77.1	-54.6
10,471.0	2.87	245.26	10,260.3	-834.4	-1,525.4	1.36	-0.67	-23.20	-74.4	-59.2
10,485.0	2.79	241.41	10,274.3	-834.7	-1,526.0	1.47	-0.57	-27.50	-70.9	-64.1
10,500.0	2.71	237.21	10,289.2	-835.1	-1,526.6	1.44	-0.53	-28.00	-66.8	-69.2
10,514.0	2.64	232.63	10,303.2	-835.4	-1,527.1	1.61	-0.50	-32.71	-61.7	-74.3
10,528.0	2.57	227.60	10,317.2	-835.8	-1,527.6	1.71	-0.50	-35.93	-55.6	-79.5
10,543.0	2.50	221.98	10,332.2	-836.3	-1,528.1	1.72	-0.47	-37.47	-48.2	-84.6
10,550.0	2.58	223.58	10,339.2	-836.5	-1,528.3	1.52	1.13	22.83	-50.8	-83.2
KOP, MD:10550.0', TVD:10339.2', N/S:-836.5', E/W:-1528.3', INC:2.58										
10,557.0	2.66	225.08	10,346.2	-836.8	-1,528.5	1.52	1.16	21.46	-53.3	-81.8

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
10,570.0	3.05	217.20	10,359.2	-837.3	-1,529.0	4.25	3.00	-60.62	-42.2	-88.4
10,584.0	4.46	199.02	10,373.1	-838.1	-1,529.4	13.06	10.07	-129.86	-13.5	-97.3
10,597.0	5.70	180.60	10,386.1	-839.2	-1,529.5	15.64	9.54	-141.69	16.7	-96.7
10,611.0	7.68	174.74	10,400.0	-840.8	-1,529.5	14.94	14.14	-41.86	24.8	-94.6
10,624.0	8.36	167.91	10,412.9	-842.6	-1,529.2	9.00	5.23	-52.54	34.2	-91.1
10,638.0	9.62	163.16	10,426.7	-844.7	-1,528.6	10.44	9.00	-33.93	39.9	-87.9
10,651.0	11.58	160.89	10,439.5	-847.0	-1,527.9	15.41	15.08	-17.46	41.6	-86.1
10,665.0	13.43	159.00	10,453.1	-849.8	-1,526.8	13.53	13.21	-13.50	42.3	-84.4
10,678.0	15.26	157.56	10,465.7	-852.8	-1,525.6	14.34	14.08	-11.08	42.3	-82.9
10,692.0	17.26	156.85	10,479.2	-856.4	-1,524.1	14.36	14.29	-5.07	40.8	-81.8
10,705.0	19.31	156.65	10,491.5	-860.2	-1,522.5	15.78	15.77	-1.54	38.5	-81.0
10,719.0	20.50	155.28	10,504.7	-864.5	-1,520.6	9.13	8.50	-9.79	37.6	-79.2
10,732.0	21.85	153.01	10,516.8	-868.8	-1,518.5	12.15	10.38	-17.46	38.0	-76.7
10,746.0	23.57	152.28	10,529.7	-873.6	-1,516.0	12.45	12.29	-5.21	35.9	-75.0
10,759.0	25.34	151.76	10,541.5	-878.3	-1,513.5	13.72	13.62	-4.00	33.5	-73.4
10,773.0	27.05	150.35	10,554.1	-883.7	-1,510.5	13.00	12.21	-10.07	31.7	-71.0
10,786.0	28.77	152.12	10,565.6	-889.1	-1,507.6	14.68	13.23	13.62	26.4	-70.1
10,800.0	30.65	151.66	10,577.7	-895.2	-1,504.3	13.53	13.43	-3.29	23.2	-68.0
10,805.8	30.63	151.45	10,582.7	-897.8	-1,502.9	1.84	-0.39	-3.54	22.1	-67.1
FTP Crossing, MD:10805.8', TVD:10582.7', N/S:-897.8', E/W:-1502.9', INC:30.63										
10,813.0	30.60	151.20	10,588.9	-901.0	-1,501.2	1.84	-0.38	-3.54	20.8	-65.8
10,827.0	30.37	150.76	10,601.0	-907.2	-1,497.7	2.29	-1.64	-3.14	18.4	-63.2
10,840.0	30.44	151.35	10,612.2	-913.0	-1,494.5	2.36	0.54	4.54	15.4	-61.0
10,853.0	31.25	154.40	10,623.4	-918.9	-1,491.5	13.55	6.23	23.46	10.2	-59.3
10,867.0	33.09	154.20	10,635.2	-925.6	-1,488.3	13.16	13.14	-1.43	7.7	-56.8
10,880.0	34.84	154.86	10,646.0	-932.2	-1,485.1	13.76	13.46	5.08	4.6	-54.4
10,894.0	36.02	157.03	10,657.4	-939.6	-1,481.8	12.32	8.43	15.50	0.3	-51.9

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
10,907.0	36.90	159.26	10,667.9	-946.8	-1,479.0	12.24	6.77	17.15	-3.5	-49.5
10,921.0	37.45	161.33	10,679.0	-954.7	-1,476.1	9.76	3.93	14.79	-7.0	-46.9
10,934.0	37.73	163.28	10,689.3	-962.3	-1,473.7	9.40	2.15	15.00	-9.9	-44.7
10,948.0	38.31	164.28	10,700.4	-970.5	-1,471.3	6.04	4.14	7.14	-12.0	-42.4
10,961.0	40.07	164.56	10,710.4	-978.5	-1,469.1	13.61	13.54	2.15	-13.6	-40.3
10,975.0	41.86	164.78	10,721.0	-987.3	-1,466.7	12.83	12.79	1.57	-15.4	-38.1
10,988.0	43.01	164.51	10,730.6	-995.8	-1,464.3	8.96	8.85	-2.08	-16.8	-36.1
11,002.0	44.13	165.39	10,740.7	-1,005.1	-1,461.8	9.10	8.00	6.29	-18.7	-33.6
11,015.0	45.53	166.10	10,750.0	-1,014.0	-1,459.6	11.44	10.77	5.46	-20.4	-31.3
11,029.0	46.70	167.08	10,759.7	-1,023.8	-1,457.2	9.76	8.36	7.00	-22.2	-28.9
11,042.0	47.56	169.03	10,768.5	-1,033.1	-1,455.3	12.83	6.62	15.00	-24.0	-26.6
11,056.0	48.80	170.45	10,777.8	-1,043.4	-1,453.4	11.64	8.86	10.14	-25.6	-24.4
11,069.0	50.56	171.37	10,786.3	-1,053.2	-1,451.8	14.57	13.54	7.08	-26.9	-22.7
11,083.0	51.50	172.73	10,795.1	-1,063.9	-1,450.3	10.11	6.71	9.71	-28.4	-20.8
11,096.0	52.43	172.91	10,803.1	-1,074.1	-1,449.1	7.24	7.15	1.38	-29.3	-19.6
11,110.0	53.92	173.07	10,811.5	-1,085.2	-1,447.7	10.68	10.64	1.14	-30.3	-18.2
11,123.0	55.75	173.88	10,818.9	-1,095.8	-1,446.5	14.97	14.08	6.23	-31.3	-16.8
11,137.0	57.50	174.82	10,826.6	-1,107.4	-1,445.3	13.70	12.50	6.71	-32.5	-15.4
11,150.0	59.35	174.39	10,833.5	-1,118.4	-1,444.3	14.51	14.23	-3.31	-33.5	-14.6
11,164.0	61.00	175.84	10,840.4	-1,130.5	-1,443.3	14.82	11.79	10.36	-34.9	-13.2
11,177.0	62.83	176.65	10,846.5	-1,142.0	-1,442.5	15.11	14.08	6.23	-36.2	-12.2
11,191.0	63.18	176.51	10,852.9	-1,154.4	-1,441.8	2.65	2.50	-1.00	-37.4	-11.6
11,204.0	63.29	176.22	10,858.7	-1,166.0	-1,441.0	2.16	0.85	-2.23	-38.2	-11.0
11,218.0	63.40	175.93	10,865.0	-1,178.5	-1,440.2	2.01	0.79	-2.07	-38.7	-10.2
11,231.0	64.44	175.32	10,870.7	-1,190.1	-1,439.3	9.04	8.00	-4.69	-39.0	-9.5
11,245.0	65.45	176.08	10,876.7	-1,202.8	-1,438.3	8.73	7.21	5.43	-39.3	-8.4
11,258.0	66.81	176.35	10,881.9	-1,214.7	-1,437.5	10.63	10.46	2.08	-39.5	-7.6



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
11,272.0	68.51	175.91	10,887.3	-1,227.6	-1,436.7	12.49	12.14	-3.14	-39.6	-6.8
11,285.0	68.51	175.53	10,892.0	-1,239.6	-1,435.8	2.72	0.00	-2.92	-39.7	-6.0
11,299.0	68.51	175.13	10,897.1	-1,252.6	-1,434.7	2.66	0.00	-2.86	-39.4	-5.1
11,312.0	68.56	174.75	10,901.9	-1,264.7	-1,433.6	2.75	0.38	-2.92	-38.7	-4.1
11,326.0	68.68	174.44	10,907.0	-1,277.6	-1,432.4	2.23	0.86	-2.21	-37.8	-2.9
11,339.0	68.85	174.17	10,911.7	-1,289.7	-1,431.2	2.34	1.31	-2.08	-36.6	-1.7
11,353.0	70.56	174.23	10,916.6	-1,302.8	-1,429.9	12.22	12.21	0.43	-35.1	-0.3
11,366.0	72.56	174.51	10,920.7	-1,315.0	-1,428.7	15.52	15.38	2.15	-33.9	1.0
11,380.0	72.77	174.31	10,924.9	-1,328.3	-1,427.4	2.03	1.50	-1.43	-32.5	2.3
11,393.0	73.00	174.12	10,928.7	-1,340.7	-1,426.1	2.25	1.77	-1.46	-30.9	3.6
11,407.0	73.21	173.95	10,932.7	-1,354.0	-1,424.7	1.90	1.50	-1.21	-29.0	5.0
11,420.0	75.02	174.55	10,936.3	-1,366.5	-1,423.5	14.61	13.92	4.62	-27.0	6.3
11,434.0	76.68	175.54	10,939.7	-1,380.0	-1,422.3	13.70	11.86	7.07	-25.0	7.5
11,447.0	77.53	176.93	10,942.6	-1,392.6	-1,421.5	12.30	6.54	10.69	-23.1	8.4
11,461.0	77.94	178.90	10,945.6	-1,406.3	-1,421.0	14.06	2.93	14.07	-20.8	8.9
11,474.0	78.17	178.84	10,948.3	-1,419.0	-1,420.7	1.83	1.77	-0.46	-18.5	9.1
11,488.0	78.30	178.71	10,951.1	-1,432.7	-1,420.4	1.30	0.93	-0.93	-15.9	9.3
11,501.0	78.48	178.59	10,953.8	-1,445.5	-1,420.1	1.65	1.38	-0.92	-13.6	9.5
11,514.0	78.76	178.50	10,956.3	-1,458.2	-1,419.8	2.26	2.15	-0.69	-11.3	9.7
11,528.0	80.18	178.41	10,958.9	-1,472.0	-1,419.4	10.16	10.14	-0.64	-9.1	10.0
11,541.0	81.93	179.01	10,960.9	-1,484.8	-1,419.1	14.21	13.46	4.62	-7.3	10.2
11,555.0	83.49	180.21	10,962.7	-1,498.7	-1,419.1	14.02	11.14	8.57	-5.9	10.2
11,568.0	83.96	180.23	10,964.1	-1,511.6	-1,419.1	3.62	3.62	0.15	-4.7	10.1
11,582.0	84.34	180.21	10,965.5	-1,525.5	-1,419.2	2.72	2.71	-0.14	-3.6	9.9
11,595.0	85.03	180.49	10,966.7	-1,538.5	-1,419.2	5.72	5.31	2.15	-2.7	9.8
11,609.0	86.28	181.30	10,967.8	-1,552.4	-1,419.5	10.63	8.93	5.79	-1.9	9.5
11,622.0	86.46	181.33	10,968.6	-1,565.4	-1,419.7	1.40	1.38	0.23	-1.4	9.1

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)	
11,636.0	86.59	181.38	10,969.5	-1,579.4	-1,420.1	0.99	0.93	0.36	-0.8	8.7	
11,649.0	86.69	181.44	10,970.2	-1,592.3	-1,420.4	0.90	0.77	0.46	-0.4	8.3	
11,663.0	86.76	181.48	10,971.0	-1,606.3	-1,420.8	0.58	0.50	0.29	0.1	7.9	
11,676.0	87.54	181.65	10,971.7	-1,619.3	-1,421.1	6.14	6.00	1.31	0.5	7.4	
11,690.0	87.69	181.69	10,972.3	-1,633.3	-1,421.5	1.11	1.07	0.29	0.8	6.9	
11,703.0	87.72	181.70	10,972.8	-1,646.3	-1,421.9	0.24	0.23	0.08	1.0	6.5	
11,717.0	87.73	181.70	10,973.3	-1,660.2	-1,422.3	0.07	0.07	0.00	1.3	6.0	
11,730.0	87.73	181.69	10,973.9	-1,673.2	-1,422.7	0.08	0.00	-0.08	1.5	5.5	
11,744.0	87.71	181.67	10,974.4	-1,687.2	-1,423.1	0.20	-0.14	-0.14	1.8	5.0	
11,757.0	87.66	181.64	10,974.9	-1,700.2	-1,423.5	0.45	-0.38	-0.23	2.0	4.6	
11,771.0	87.59	181.60	10,975.5	-1,714.2	-1,423.9	0.58	-0.50	-0.29	2.3	4.1	
11,784.0	87.48	181.54	10,976.1	-1,727.2	-1,424.2	0.96	-0.85	-0.46	2.6	3.7	
11,799.0	87.30	181.45	10,976.8	-1,742.1	-1,424.6	1.34	-1.20	-0.60	2.9	3.2	
11,813.0	87.08	181.33	10,977.4	-1,756.1	-1,425.0	1.79	-1.57	-0.86	3.3	2.8	
11,828.0	86.85	181.21	10,978.2	-1,771.1	-1,425.3	1.73	-1.53	-0.80	3.8	2.3	
11,842.0	86.62	181.06	10,979.0	-1,785.1	-1,425.6	1.96	-1.64	-1.07	4.3	2.0	
11,857.0	86.41	180.89	10,979.9	-1,800.0	-1,425.8	1.80	-1.40	-1.13	4.9	1.6	
11,871.0	86.26	180.70	10,980.8	-1,814.0	-1,426.0	1.73	-1.07	-1.36	5.5	1.4	
11,886.0	87.19	181.13	10,981.7	-1,829.0	-1,426.3	6.83	6.20	2.87	6.2	1.0	
11,900.0	88.55	180.95	10,982.2	-1,843.0	-1,426.5	9.80	9.71	-1.29	6.6	0.7	
11,915.0	88.70	180.56	10,982.6	-1,858.0	-1,426.7	2.78	1.00	-2.60	6.9	0.4	
11,929.0	88.90	180.13	10,982.9	-1,872.0	-1,426.8	3.39	1.43	-3.07	7.2	0.3	
11,944.0	89.09	179.71	10,983.1	-1,887.0	-1,426.8	3.07	1.27	-2.80	7.4	0.2	
11,958.0	89.37	179.31	10,983.3	-1,901.0	-1,426.7	3.49	2.00	-2.86	7.6	0.2	
11,973.0	90.75	178.88	10,983.3	-1,916.0	-1,426.4	9.64	9.20	-2.87	7.5	0.4	
11,986.0	92.20	178.66	10,983.0	-1,928.9	-1,426.1	11.28	11.15	-1.69	7.1	0.6	
12,000.0	93.64	178.44	10,982.3	-1,942.9	-1,425.8	10.40	10.29	-1.57	6.4	0.9	

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
12,013.0	94.32	178.28	10,981.4	-1,955.9	-1,425.4	5.37	5.23	-1.23	5.5	1.2
12,027.0	93.79	178.21	10,980.4	-1,969.8	-1,425.0	3.82	-3.79	-0.50	4.5	1.5
12,040.0	93.20	178.16	10,979.6	-1,982.8	-1,424.6	4.55	-4.54	-0.38	3.6	1.8
12,054.0	92.65	178.13	10,978.9	-1,996.8	-1,424.1	3.93	-3.93	-0.21	2.9	2.2
12,067.0	92.21	178.12	10,978.3	-2,009.8	-1,423.7	3.39	-3.38	-0.08	2.3	2.6
12,081.0	92.01	178.13	10,977.8	-2,023.8	-1,423.2	1.43	-1.43	0.07	1.8	2.9
12,094.0	91.97	178.17	10,977.3	-2,036.7	-1,422.8	0.44	-0.31	0.31	1.3	3.3
12,108.0	92.02	178.21	10,976.9	-2,050.7	-1,422.4	0.46	0.36	0.29	0.8	3.6
12,121.0	92.14	178.26	10,976.4	-2,063.7	-1,422.0	1.00	0.92	0.38	0.3	4.0
12,135.0	92.30	178.32	10,975.8	-2,077.7	-1,421.6	1.22	1.14	0.43	-0.3	4.3
12,148.0	92.49	178.37	10,975.3	-2,090.7	-1,421.2	1.51	1.46	0.38	-0.9	4.6
12,162.0	92.69	178.42	10,974.7	-2,104.7	-1,420.8	1.47	1.43	0.36	-1.5	4.9
12,175.0	92.88	178.46	10,974.0	-2,117.6	-1,420.4	1.49	1.46	0.31	-2.2	5.2
12,189.0	93.06	178.50	10,973.3	-2,131.6	-1,420.1	1.32	1.29	0.29	-2.9	5.5
12,202.0	93.23	178.53	10,972.6	-2,144.6	-1,419.7	1.33	1.31	0.23	-3.7	5.7
12,216.0	93.36	178.57	10,971.8	-2,158.6	-1,419.4	0.97	0.93	0.29	-4.5	6.0
12,229.0	93.45	178.62	10,971.0	-2,171.5	-1,419.1	0.79	0.69	0.38	-5.3	6.3
12,243.0	92.91	178.82	10,970.2	-2,185.5	-1,418.8	4.11	-3.86	1.43	-6.1	6.5
12,256.0	91.98	179.07	10,969.7	-2,198.5	-1,418.5	7.41	-7.15	1.92	-6.7	6.6
12,270.0	91.83	179.19	10,969.2	-2,212.5	-1,418.3	1.37	-1.07	0.86	-7.2	6.8
12,283.0	91.64	179.33	10,968.8	-2,225.5	-1,418.1	1.82	-1.46	1.08	-7.6	6.9
12,297.0	91.42	179.48	10,968.5	-2,239.5	-1,418.0	1.90	-1.57	1.07	-8.0	6.9
12,310.0	91.20	179.63	10,968.2	-2,252.5	-1,417.9	2.05	-1.69	1.15	-8.4	7.0
12,324.0	91.00	179.75	10,967.9	-2,266.5	-1,417.8	1.67	-1.43	0.86	-8.7	7.0
12,337.0	89.50	179.83	10,967.8	-2,279.5	-1,417.8	11.55	-11.54	0.62	-8.7	6.9
12,351.0	88.30	180.08	10,968.1	-2,293.5	-1,417.8	8.76	-8.57	1.79	-8.5	6.9
12,364.0	88.22	180.11	10,968.5	-2,306.5	-1,417.8	0.66	-0.62	0.23	-8.1	6.8



Final PVA

Company: Midland
Project: Lea County, NM (NAD 83 NME)
Site: Modelo 3 Fed Com
Well: #529H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #529H
TVD Reference: kb = 26' @ 3671.0usft
MD Reference: kb = 26' @ 3671.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: PEDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,378.0	88.17	180.11	10,968.9	-2,320.4	-1,417.8	0.36	-0.36	0.00	-7.7	6.7
12,391.0	88.13	180.10	10,969.4	-2,333.4	-1,417.8	0.32	-0.31	-0.08	-7.3	6.6
12,405.0	88.12	180.09	10,969.8	-2,347.4	-1,417.8	0.10	-0.07	-0.07	-6.9	6.5
12,418.0	88.11	180.07	10,970.2	-2,360.4	-1,417.9	0.17	-0.08	-0.15	-6.5	6.4
12,432.0	88.13	180.07	10,970.7	-2,374.4	-1,417.9	0.14	0.14	0.00	-6.1	6.3
12,445.0	88.17	180.07	10,971.1	-2,387.4	-1,417.9	0.31	0.31	0.00	-5.7	6.2
12,458.0	88.24	180.11	10,971.5	-2,400.4	-1,417.9	0.62	0.54	0.31	-5.3	6.1
12,472.0	88.33	180.15	10,971.9	-2,414.4	-1,418.0	0.70	0.64	0.29	-4.9	6.0
12,485.0	88.43	180.20	10,972.3	-2,427.4	-1,418.0	0.86	0.77	0.38	-4.6	5.8
12,499.0	88.55	180.26	10,972.7	-2,441.4	-1,418.0	0.96	0.86	0.43	-4.2	5.7
12,512.0	88.66	180.31	10,973.0	-2,454.4	-1,418.1	0.93	0.85	0.38	-3.9	5.6
12,526.0	88.79	180.36	10,973.3	-2,468.4	-1,418.2	0.99	0.93	0.36	-3.7	5.4
12,539.0	88.91	180.40	10,973.6	-2,481.4	-1,418.3	0.97	0.92	0.31	-3.4	5.2
12,552.0	89.02	180.42	10,973.8	-2,494.4	-1,418.4	0.86	0.85	0.15	-3.2	5.1
12,566.0	89.14	180.43	10,974.0	-2,508.4	-1,418.5	0.86	0.86	0.07	-3.0	4.9
12,579.0	89.26	180.43	10,974.2	-2,521.4	-1,418.6	0.92	0.92	0.00	-2.9	4.7
12,593.0	89.39	180.44	10,974.4	-2,535.4	-1,418.7	0.93	0.93	0.07	-2.7	4.5
12,606.0	89.53	180.44	10,974.5	-2,548.4	-1,418.8	1.08	1.08	0.00	-2.6	4.4
12,620.0	89.69	180.45	10,974.6	-2,562.4	-1,418.9	1.15	1.14	0.07	-2.6	4.2
12,633.0	89.89	180.47	10,974.6	-2,575.4	-1,419.0	1.55	1.54	0.15	-2.6	4.0
12,647.0	90.14	180.52	10,974.6	-2,589.4	-1,419.1	1.82	1.79	0.36	-2.6	3.8
12,660.0	90.41	180.57	10,974.6	-2,602.4	-1,419.2	2.11	2.08	0.38	-2.7	3.6
12,674.0	90.69	180.64	10,974.4	-2,616.4	-1,419.4	2.06	2.00	0.50	-2.8	3.4
12,687.0	90.96	180.71	10,974.3	-2,629.4	-1,419.5	2.15	2.08	0.54	-3.1	3.1
12,701.0	91.19	180.79	10,974.0	-2,643.4	-1,419.7	1.74	1.64	0.57	-3.4	2.9
12,714.0	91.37	180.87	10,973.7	-2,656.4	-1,419.9	1.52	1.38	0.62	-3.7	2.6
12,728.0	91.46	180.96	10,973.4	-2,670.3	-1,420.1	0.91	0.64	0.64	-4.0	2.3

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
12,741.0	91.40	181.05	10,973.0	-2,683.3	-1,420.4	0.83	-0.46	0.69	-4.4	2.0
12,755.0	91.26	181.14	10,972.7	-2,697.3	-1,420.6	1.19	-1.00	0.64	-4.8	1.6
12,768.0	91.07	181.23	10,972.4	-2,710.3	-1,420.9	1.62	-1.46	0.69	-5.0	1.3
12,782.0	90.86	181.31	10,972.2	-2,724.3	-1,421.2	1.61	-1.50	0.57	-5.3	0.9
12,795.0	90.65	181.38	10,972.0	-2,737.3	-1,421.5	1.70	-1.62	0.54	-5.5	0.5
12,809.0	89.60	181.17	10,972.0	-2,751.3	-1,421.8	7.65	-7.50	-1.50	-5.6	0.1
12,822.0	89.00	181.03	10,972.2	-2,764.3	-1,422.1	4.74	-4.62	-1.08	-5.4	-0.2
12,836.0	88.84	181.04	10,972.4	-2,778.3	-1,422.3	1.15	-1.14	0.07	-5.2	-0.5
12,849.0	88.69	181.05	10,972.7	-2,791.3	-1,422.6	1.16	-1.15	0.08	-4.9	-0.8
12,863.0	88.56	181.04	10,973.0	-2,805.3	-1,422.8	0.93	-0.93	-0.07	-4.6	-1.2
12,876.0	88.43	181.03	10,973.4	-2,818.3	-1,423.1	1.00	-1.00	-0.08	-4.3	-1.5
12,890.0	88.30	181.01	10,973.8	-2,832.3	-1,423.3	0.94	-0.93	-0.14	-4.0	-1.8
12,903.0	88.19	180.99	10,974.2	-2,845.3	-1,423.5	0.86	-0.85	-0.15	-3.6	-2.1
12,917.0	88.10	180.97	10,974.6	-2,859.3	-1,423.8	0.66	-0.64	-0.14	-3.2	-2.4
12,930.0	88.02	180.94	10,975.1	-2,872.3	-1,424.0	0.66	-0.62	-0.23	-2.8	-2.7
12,944.0	87.96	180.91	10,975.6	-2,886.2	-1,424.2	0.48	-0.43	-0.21	-2.3	-3.0
12,957.0	87.89	180.87	10,976.0	-2,899.2	-1,424.4	0.62	-0.54	-0.31	-1.8	-3.3
12,971.0	87.80	180.83	10,976.6	-2,913.2	-1,424.6	0.70	-0.64	-0.29	-1.4	-3.6
12,984.0	87.70	180.77	10,977.1	-2,926.2	-1,424.8	0.90	-0.77	-0.46	-0.9	-3.9
12,998.0	87.54	180.70	10,977.7	-2,940.2	-1,425.0	1.25	-1.14	-0.50	-0.3	-4.1
13,011.0	87.32	180.61	10,978.2	-2,953.2	-1,425.1	1.83	-1.69	-0.69	0.2	-4.3
13,024.0	86.97	180.48	10,978.9	-2,966.2	-1,425.3	2.87	-2.69	-1.00	0.9	-4.5
13,038.0	86.58	180.33	10,979.7	-2,980.1	-1,425.4	2.98	-2.79	-1.07	1.6	-4.7
13,051.0	86.18	180.17	10,980.5	-2,993.1	-1,425.4	3.31	-3.08	-1.23	2.4	-4.9
13,065.0	85.82	180.02	10,981.5	-3,007.1	-1,425.4	2.78	-2.57	-1.07	3.3	-5.0
13,078.0	85.55	179.90	10,982.5	-3,020.0	-1,425.4	2.27	-2.08	-0.92	4.3	-5.0
13,092.0	86.73	180.05	10,983.4	-3,034.0	-1,425.4	8.50	8.43	1.07	5.2	-5.1



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
13,105.0	87.46	180.61	10,984.1	-3,047.0	-1,425.5	7.07	5.62	4.31	5.8	-5.3
13,119.0	87.69	180.58	10,984.6	-3,061.0	-1,425.6	1.66	1.64	-0.21	6.4	-5.5
13,132.0	88.05	180.57	10,985.1	-3,074.0	-1,425.8	2.77	2.77	-0.08	6.9	-5.7
13,146.0	88.47	180.57	10,985.6	-3,088.0	-1,425.9	3.00	3.00	0.00	7.3	-5.9
13,159.0	88.92	180.57	10,985.8	-3,101.0	-1,426.0	3.46	3.46	0.00	7.5	-6.1
13,173.0	89.35	180.57	10,986.1	-3,115.0	-1,426.2	3.07	3.07	0.00	7.7	-6.3
13,186.0	90.45	179.92	10,986.1	-3,128.0	-1,426.2	9.83	8.46	-5.00	7.7	-6.5
13,200.0	91.15	179.60	10,985.9	-3,142.0	-1,426.2	5.50	5.00	-2.29	7.5	-6.5
13,213.0	91.42	179.56	10,985.6	-3,155.0	-1,426.1	2.10	2.08	-0.31	7.2	-6.5
13,227.0	91.65	179.51	10,985.2	-3,169.0	-1,426.0	1.68	1.64	-0.36	6.8	-6.4
13,240.0	91.83	179.46	10,984.8	-3,181.9	-1,425.8	1.44	1.38	-0.38	6.3	-6.4
13,254.0	91.97	179.42	10,984.4	-3,195.9	-1,425.7	1.04	1.00	-0.29	5.8	-6.3
13,267.0	92.04	179.38	10,983.9	-3,208.9	-1,425.6	0.62	0.54	-0.31	5.4	-6.3
13,281.0	92.04	179.37	10,983.4	-3,222.9	-1,425.4	0.07	0.00	-0.07	4.8	-6.2
13,294.0	91.92	179.38	10,983.0	-3,235.9	-1,425.3	0.93	-0.92	0.08	4.4	-6.1
13,307.0	91.64	179.44	10,982.6	-3,248.9	-1,425.1	2.20	-2.15	0.46	3.9	-6.1
13,321.0	91.25	179.53	10,982.2	-3,262.9	-1,425.0	2.86	-2.79	0.64	3.5	-6.0
13,334.0	90.83	179.62	10,982.0	-3,275.9	-1,424.9	3.30	-3.23	0.69	3.3	-6.0
13,348.0	90.41	179.71	10,981.8	-3,289.9	-1,424.8	3.07	-3.00	0.64	3.1	-6.0
13,361.0	90.03	179.78	10,981.8	-3,302.9	-1,424.8	2.97	-2.92	0.54	3.0	-6.0
13,375.0	88.16	179.93	10,982.0	-3,316.9	-1,424.8	13.40	-13.36	1.07	3.2	-6.1
13,388.0	87.56	179.96	10,982.5	-3,329.9	-1,424.7	4.62	-4.62	0.23	3.7	-6.1
13,401.0	87.51	179.89	10,983.0	-3,342.9	-1,424.7	0.66	-0.38	-0.54	4.2	-6.2
13,415.0	87.53	179.77	10,983.6	-3,356.9	-1,424.7	0.87	0.14	-0.86	4.8	-6.2
13,428.0	87.59	179.64	10,984.2	-3,369.8	-1,424.6	1.10	0.46	-1.00	5.3	-6.2
13,442.0	87.66	179.50	10,984.8	-3,383.8	-1,424.5	1.12	0.50	-1.00	5.9	-6.2
13,455.0	87.71	179.37	10,985.3	-3,396.8	-1,424.4	1.07	0.38	-1.00	6.4	-6.2

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
13,469.0	88.47	180.15	10,985.8	-3,410.8	-1,424.3	7.78	5.43	5.57	6.8	-6.2
13,482.0	89.64	180.27	10,986.0	-3,423.8	-1,424.4	9.05	9.00	0.92	7.0	-6.3
13,495.0	90.88	180.09	10,985.9	-3,436.8	-1,424.4	9.64	9.54	-1.38	6.9	-6.4
13,509.0	90.66	180.00	10,985.7	-3,450.8	-1,424.4	1.70	-1.57	-0.64	6.7	-6.5
13,522.0	90.40	179.91	10,985.6	-3,463.8	-1,424.4	2.12	-2.00	-0.69	6.5	-6.6
13,536.0	90.11	179.81	10,985.5	-3,477.8	-1,424.4	2.19	-2.07	-0.71	6.4	-6.6
13,549.0	89.82	179.72	10,985.6	-3,490.8	-1,424.3	2.34	-2.23	-0.69	6.4	-6.7
13,563.0	89.54	179.62	10,985.6	-3,504.8	-1,424.2	2.12	-2.00	-0.71	6.5	-6.7
13,576.0	89.30	179.53	10,985.8	-3,517.8	-1,424.1	1.97	-1.85	-0.69	6.6	-6.6
13,590.0	89.11	179.43	10,986.0	-3,531.8	-1,424.0	1.53	-1.36	-0.71	6.7	-6.6
13,603.0	88.97	179.33	10,986.2	-3,544.8	-1,423.9	1.32	-1.08	-0.77	6.9	-6.5
13,617.0	88.88	179.23	10,986.4	-3,558.8	-1,423.7	0.96	-0.64	-0.71	7.2	-6.4
13,630.0	88.83	179.14	10,986.7	-3,571.8	-1,423.5	0.79	-0.38	-0.69	7.4	-6.3
13,644.0	88.83	179.06	10,987.0	-3,585.8	-1,423.3	0.57	0.00	-0.57	7.6	-6.2
13,657.0	89.78	178.68	10,987.1	-3,598.8	-1,423.0	7.87	7.31	-2.92	7.8	-6.0
13,671.0	90.82	178.64	10,987.1	-3,612.8	-1,422.7	7.43	7.43	-0.29	7.7	-5.8
13,684.0	91.07	178.59	10,986.9	-3,625.8	-1,422.4	1.96	1.92	-0.38	7.4	-5.5
13,698.0	91.38	178.55	10,986.6	-3,639.8	-1,422.0	2.23	2.21	-0.29	7.1	-5.2
13,711.0	91.73	178.52	10,986.2	-3,652.8	-1,421.7	2.70	2.69	-0.23	6.7	-5.0
13,725.0	92.10	178.50	10,985.7	-3,666.7	-1,421.4	2.65	2.64	-0.14	6.2	-4.7
13,738.0	92.46	178.51	10,985.2	-3,679.7	-1,421.0	2.77	2.77	0.08	5.7	-4.4
13,752.0	92.82	178.53	10,984.6	-3,693.7	-1,420.7	2.58	2.57	0.14	5.0	-4.2
13,765.0	93.13	178.60	10,983.9	-3,706.7	-1,420.3	2.44	2.38	0.54	4.3	-3.9
13,778.0	93.38	178.72	10,983.2	-3,719.7	-1,420.0	2.13	1.92	0.92	3.5	-3.7
13,792.0	93.58	178.88	10,982.3	-3,733.6	-1,419.7	1.83	1.43	1.14	2.6	-3.5
13,805.0	93.75	179.04	10,981.5	-3,746.6	-1,419.5	1.79	1.31	1.23	1.8	-3.3
13,819.0	93.91	179.21	10,980.5	-3,760.6	-1,419.3	1.67	1.14	1.21	0.8	-3.2

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)	
13,832.0	93.74	179.34	10,979.7	-3,773.5	-1,419.1	1.64	-1.31	1.00	-0.1	-3.1	
13,846.0	91.64	179.25	10,979.0	-3,787.5	-1,418.9	15.01	-15.00	-0.64	-0.8	-3.0	
13,859.0	91.63	179.33	10,978.6	-3,800.5	-1,418.8	0.62	-0.08	0.62	-1.2	-2.9	
13,873.0	91.81	179.40	10,978.2	-3,814.5	-1,418.6	1.38	1.29	0.50	-1.6	-2.8	
13,886.0	91.99	179.43	10,977.8	-3,827.5	-1,418.5	1.40	1.38	0.23	-2.1	-2.8	
13,900.0	92.17	179.45	10,977.3	-3,841.5	-1,418.4	1.29	1.29	0.14	-2.6	-2.7	
13,913.0	92.34	179.45	10,976.8	-3,854.5	-1,418.2	1.31	1.31	0.00	-3.1	-2.7	
13,927.0	92.49	179.45	10,976.2	-3,868.5	-1,418.1	1.07	1.07	0.00	-3.8	-2.6	
13,940.0	92.60	179.43	10,975.6	-3,881.5	-1,418.0	0.86	0.85	-0.15	-4.4	-2.6	
13,954.0	92.65	179.41	10,975.0	-3,895.4	-1,417.8	0.38	0.36	-0.14	-5.0	-2.5	
13,967.0	92.61	179.38	10,974.4	-3,908.4	-1,417.7	0.38	-0.31	-0.23	-5.7	-2.5	
13,981.0	92.52	179.34	10,973.7	-3,922.4	-1,417.5	0.70	-0.64	-0.29	-6.3	-2.4	
13,994.0	92.41	179.30	10,973.2	-3,935.4	-1,417.4	0.90	-0.85	-0.31	-6.9	-2.3	
14,007.0	92.31	179.26	10,972.7	-3,948.4	-1,417.2	0.83	-0.77	-0.31	-7.5	-2.2	
14,020.0	92.25	179.21	10,972.1	-3,961.4	-1,417.1	0.60	-0.46	-0.38	-8.0	-2.1	
14,034.0	90.42	179.39	10,971.8	-3,975.4	-1,416.9	13.13	-13.07	1.29	-8.4	-2.0	
14,047.0	89.03	179.43	10,971.9	-3,988.4	-1,416.7	10.70	-10.69	0.31	-8.3	-2.0	
14,061.0	89.18	179.36	10,972.1	-4,002.4	-1,416.6	1.18	1.07	-0.50	-8.1	-1.9	
14,074.0	89.37	179.28	10,972.3	-4,015.4	-1,416.4	1.59	1.46	-0.62	-8.0	-1.8	
14,088.0	89.57	179.20	10,972.4	-4,029.4	-1,416.3	1.54	1.43	-0.57	-7.9	-1.7	
14,101.0	89.78	179.13	10,972.5	-4,042.4	-1,416.1	1.70	1.62	-0.54	-7.9	-1.6	
14,115.0	89.97	179.06	10,972.5	-4,056.4	-1,415.8	1.45	1.36	-0.50	-7.9	-1.5	
14,128.0	90.11	179.00	10,972.5	-4,069.4	-1,415.6	1.17	1.08	-0.46	-7.9	-1.3	
14,142.0	90.17	178.97	10,972.4	-4,083.4	-1,415.4	0.48	0.43	-0.21	-8.0	-1.1	
14,155.0	90.11	178.98	10,972.4	-4,096.4	-1,415.1	0.47	-0.46	0.08	-8.0	-1.0	
14,169.0	89.96	179.01	10,972.4	-4,110.4	-1,414.9	1.09	-1.07	0.21	-8.1	-0.8	
14,182.0	89.79	179.05	10,972.4	-4,123.4	-1,414.7	1.34	-1.31	0.31	-8.1	-0.7	



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	PEDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
14,196.0	89.60	179.10	10,972.5	-4,137.4	-1,414.5	1.40	-1.36	0.36	-8.0	-0.5
14,209.0	89.43	179.15	10,972.6	-4,150.4	-1,414.3	1.36	-1.31	0.38	-7.9	-0.4
14,223.0	88.86	179.23	10,972.8	-4,164.3	-1,414.1	4.11	-4.07	0.57	-7.7	-0.3
14,236.0	88.20	179.30	10,973.2	-4,177.3	-1,413.9	5.11	-5.08	0.54	-7.4	-0.2
14,249.0	88.25	179.33	10,973.6	-4,190.3	-1,413.7	0.45	0.38	0.23	-7.1	-0.1
14,263.0	88.37	179.36	10,974.0	-4,204.3	-1,413.6	0.88	0.86	0.21	-6.7	0.0
14,276.0	88.54	179.38	10,974.3	-4,217.3	-1,413.4	1.32	1.31	0.15	-6.4	0.0
14,290.0	88.76	179.41	10,974.7	-4,231.3	-1,413.3	1.59	1.57	0.21	-6.1	0.1
14,303.0	89.02	179.44	10,974.9	-4,244.3	-1,413.2	2.01	2.00	0.23	-5.8	0.1
14,317.0	89.32	179.48	10,975.1	-4,258.3	-1,413.0	2.16	2.14	0.29	-5.7	0.2
14,330.0	89.69	179.53	10,975.2	-4,271.3	-1,412.9	2.87	2.85	0.38	-5.6	0.2
14,343.0	90.14	179.60	10,975.2	-4,284.3	-1,412.8	3.50	3.46	0.54	-5.6	0.3
14,357.0	90.63	179.68	10,975.1	-4,298.3	-1,412.7	3.55	3.50	0.57	-5.7	0.3
14,370.0	91.15	179.77	10,974.9	-4,311.3	-1,412.7	4.06	4.00	0.69	-5.9	0.2
14,384.0	91.66	179.86	10,974.6	-4,325.3	-1,412.6	3.70	3.64	0.64	-6.3	0.2
14,397.0	92.13	179.96	10,974.2	-4,338.3	-1,412.6	3.70	3.62	0.77	-6.8	0.2
14,411.0	92.54	180.07	10,973.6	-4,352.3	-1,412.6	3.03	2.93	0.79	-7.4	0.1
14,424.0	92.84	180.17	10,973.0	-4,365.3	-1,412.6	2.43	2.31	0.77	-8.0	0.0
14,438.0	92.96	180.27	10,972.3	-4,379.3	-1,412.7	1.12	0.86	0.71	-8.7	-0.2
14,451.0	92.13	180.22	10,971.7	-4,392.2	-1,412.7	6.40	-6.38	-0.38	-9.3	-0.3
14,465.0	90.71	180.05	10,971.4	-4,406.2	-1,412.8	10.22	-10.14	-1.21	-9.7	-0.4
14,478.0	90.61	180.15	10,971.2	-4,419.2	-1,412.8	1.09	-0.77	0.77	-9.9	-0.5
14,492.0	90.49	180.24	10,971.1	-4,433.2	-1,412.8	1.07	-0.86	0.64	-10.1	-0.6
14,505.0	90.00	179.95	10,971.0	-4,446.2	-1,412.9	4.38	-3.77	-2.23	-10.1	-0.7
14,519.0	89.90	180.01	10,971.0	-4,460.2	-1,412.9	0.83	-0.71	0.43	-10.2	-0.8
14,532.0	89.86	180.05	10,971.1	-4,473.2	-1,412.9	0.44	-0.31	0.31	-10.2	-0.9
14,546.0	89.86	180.06	10,971.1	-4,487.2	-1,412.9	0.07	0.00	0.07	-10.2	-1.0

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	PEDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
14,559.0	89.88	180.07	10,971.1	-4,500.2	-1,412.9	0.17	0.15	0.08	-10.2	-1.1
14,573.0	89.93	180.08	10,971.1	-4,514.2	-1,412.9	0.36	0.36	0.07	-10.2	-1.2
14,586.0	89.98	180.09	10,971.2	-4,527.2	-1,412.9	0.39	0.38	0.08	-10.2	-1.3
14,600.0	89.18	180.25	10,971.3	-4,541.2	-1,413.0	5.83	-5.71	1.14	-10.1	-1.4
14,613.0	89.25	180.26	10,971.4	-4,554.2	-1,413.0	0.54	0.54	0.08	-10.0	-1.5
14,627.0	89.32	180.29	10,971.6	-4,568.2	-1,413.1	0.54	0.50	0.21	-9.8	-1.7
14,640.0	89.40	180.33	10,971.8	-4,581.2	-1,413.2	0.69	0.62	0.31	-9.7	-1.8
14,654.0	89.48	180.37	10,971.9	-4,595.2	-1,413.3	0.64	0.57	0.29	-9.6	-2.0
14,667.0	89.57	180.42	10,972.0	-4,608.2	-1,413.3	0.79	0.69	0.38	-9.5	-2.2
14,681.0	89.65	180.46	10,972.1	-4,622.2	-1,413.4	0.64	0.57	0.29	-9.4	-2.3
14,694.0	89.73	180.50	10,972.2	-4,635.2	-1,413.6	0.69	0.62	0.31	-9.4	-2.5
14,708.0	89.82	180.53	10,972.2	-4,649.2	-1,413.7	0.68	0.64	0.21	-9.4	-2.7
14,721.0	89.89	180.55	10,972.3	-4,662.2	-1,413.8	0.56	0.54	0.15	-9.4	-2.9
14,735.0	89.97	180.56	10,972.3	-4,676.2	-1,413.9	0.58	0.57	0.07	-9.4	-3.1
14,748.0	90.07	180.57	10,972.3	-4,689.2	-1,414.1	0.77	0.77	0.08	-9.4	-3.4
14,762.0	90.19	180.57	10,972.2	-4,703.2	-1,414.2	0.86	0.86	0.00	-9.5	-3.6
14,775.0	90.34	180.58	10,972.2	-4,716.2	-1,414.3	1.16	1.15	0.08	-9.6	-3.8
14,789.0	89.24	180.03	10,972.2	-4,730.2	-1,414.4	8.78	-7.86	-3.93	-9.5	-3.9
14,802.0	89.53	180.05	10,972.4	-4,743.2	-1,414.4	2.24	2.23	0.15	-9.4	-4.0
14,815.0	89.94	180.08	10,972.4	-4,756.2	-1,414.4	3.16	3.15	0.23	-9.4	-4.1
14,829.0	90.43	180.12	10,972.4	-4,770.2	-1,414.5	3.51	3.50	0.29	-9.5	-4.2
14,842.0	90.94	180.17	10,972.2	-4,783.2	-1,414.5	3.94	3.92	0.38	-9.7	-4.3
14,856.0	91.46	180.23	10,971.9	-4,797.2	-1,414.5	3.74	3.71	0.43	-10.0	-4.5
14,869.0	91.95	180.29	10,971.5	-4,810.2	-1,414.6	3.80	3.77	0.46	-10.4	-4.6
14,883.0	92.38	180.37	10,971.0	-4,824.2	-1,414.7	3.12	3.07	0.57	-11.0	-4.8
14,896.0	92.69	180.47	10,970.4	-4,837.2	-1,414.8	2.51	2.38	0.77	-11.6	-4.9
14,909.0	92.81	180.60	10,969.8	-4,850.2	-1,414.9	1.36	0.92	1.00	-12.2	-5.1



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	PEDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
14,923.0	92.84	180.74	10,969.1	-4,864.2	-1,415.1	1.02	0.21	1.00	-13.0	-5.4
14,936.0	91.99	180.49	10,968.6	-4,877.1	-1,415.2	6.81	-6.54	-1.92	-13.6	-5.6
14,950.0	91.16	180.23	10,968.2	-4,891.1	-1,415.3	6.21	-5.93	-1.86	-14.0	-5.7
14,963.0	91.12	180.38	10,967.9	-4,904.1	-1,415.4	1.19	-0.31	1.15	-14.3	-5.9
14,977.0	90.16	180.59	10,967.8	-4,918.1	-1,415.5	7.02	-6.86	1.50	-14.5	-6.1
14,990.0	90.20	180.72	10,967.7	-4,931.1	-1,415.6	1.05	0.31	1.00	-14.6	-6.3
15,004.0	90.35	180.83	10,967.7	-4,945.1	-1,415.8	1.33	1.07	0.79	-14.8	-6.6
15,017.0	90.59	180.93	10,967.6	-4,958.1	-1,416.0	2.00	1.85	0.77	-14.9	-6.9
15,031.0	90.88	181.03	10,967.4	-4,972.1	-1,416.3	2.19	2.07	0.71	-15.1	-7.2
15,044.0	91.23	181.13	10,967.1	-4,985.1	-1,416.5	2.80	2.69	0.77	-15.4	-7.5
15,058.0	91.64	181.24	10,966.8	-4,999.1	-1,416.8	3.03	2.93	0.79	-15.8	-7.9
15,071.0	90.68	181.16	10,966.5	-5,012.1	-1,417.1	7.41	-7.38	-0.62	-16.2	-8.2
15,085.0	91.26	181.32	10,966.3	-5,026.1	-1,417.4	4.30	4.14	1.14	-16.4	-8.6
15,098.0	91.98	181.54	10,965.9	-5,039.1	-1,417.7	5.79	5.54	1.69	-16.9	-9.0
15,112.0	92.77	181.77	10,965.3	-5,053.1	-1,418.1	5.88	5.64	1.64	-17.5	-9.5
15,125.0	93.57	182.01	10,964.6	-5,066.0	-1,418.5	6.42	6.15	1.85	-18.3	-10.0
15,139.0	94.31	182.24	10,963.7	-5,080.0	-1,419.0	5.53	5.29	1.64	-19.3	-10.6
15,152.0	93.90	182.06	10,962.7	-5,093.0	-1,419.5	3.44	-3.15	-1.38	-20.3	-11.2
15,166.0	92.59	181.56	10,961.9	-5,106.9	-1,420.0	10.01	-9.36	-3.57	-21.1	-11.7
15,179.0	91.59	181.18	10,961.5	-5,119.9	-1,420.3	8.23	-7.69	-2.92	-21.6	-12.1
15,192.0	91.34	181.11	10,961.1	-5,132.9	-1,420.5	2.00	-1.92	-0.54	-22.0	-12.4
15,206.0	90.94	180.99	10,960.9	-5,146.9	-1,420.8	2.98	-2.86	-0.86	-22.4	-12.7
15,219.0	91.05	181.04	10,960.6	-5,159.9	-1,421.0	0.93	0.85	0.38	-22.6	-13.0
15,233.0	91.12	181.09	10,960.4	-5,173.9	-1,421.3	0.61	0.50	0.36	-23.0	-13.4
15,246.0	89.94	181.14	10,960.2	-5,186.9	-1,421.5	9.09	-9.08	0.38	-23.1	-13.7
15,260.0	88.41	180.97	10,960.5	-5,200.9	-1,421.8	11.00	-10.93	-1.21	-23.0	-14.0
15,273.0	87.23	180.87	10,960.9	-5,213.9	-1,422.0	9.11	-9.08	-0.77	-22.5	-14.3

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
15,286.0	87.09	180.91	10,961.6	-5,226.9	-1,422.2	1.12	-1.08	0.31	-22.0	-14.6
15,300.0	86.90	180.94	10,962.3	-5,240.8	-1,422.4	1.37	-1.36	0.21	-21.3	-14.9
15,313.0	86.68	180.97	10,963.1	-5,253.8	-1,422.6	1.71	-1.69	0.23	-20.6	-15.2
15,327.0	86.45	180.98	10,963.9	-5,267.8	-1,422.9	1.64	-1.64	0.07	-19.8	-15.5
15,340.0	86.23	180.98	10,964.7	-5,280.8	-1,423.1	1.69	-1.69	0.00	-19.0	-15.8
15,354.0	86.03	180.94	10,965.7	-5,294.7	-1,423.3	1.46	-1.43	-0.29	-18.1	-16.1
15,367.0	85.88	180.87	10,966.6	-5,307.7	-1,423.5	1.27	-1.15	-0.54	-17.3	-16.4
15,380.0	85.81	180.73	10,967.5	-5,320.7	-1,423.7	1.20	-0.54	-1.08	-16.4	-16.7
15,394.0	85.80	180.55	10,968.5	-5,334.6	-1,423.9	1.28	-0.07	-1.29	-15.4	-16.9
15,407.0	85.84	180.36	10,969.5	-5,347.6	-1,424.0	1.49	0.31	-1.46	-14.5	-17.1
15,421.0	85.93	180.17	10,970.5	-5,361.5	-1,424.1	1.50	0.64	-1.36	-13.6	-17.2
15,434.0	86.06	180.00	10,971.4	-5,374.5	-1,424.1	1.64	1.00	-1.31	-12.7	-17.3
15,448.0	86.55	179.31	10,972.3	-5,388.5	-1,424.0	6.04	3.50	-4.93	-11.9	-17.3
15,461.0	87.74	179.29	10,973.0	-5,401.5	-1,423.8	9.16	9.15	-0.15	-11.3	-17.2
15,475.0	88.22	179.26	10,973.5	-5,415.5	-1,423.6	3.44	3.43	-0.21	-10.8	-17.1
15,488.0	88.62	179.20	10,973.8	-5,428.5	-1,423.5	3.11	3.08	-0.46	-10.5	-17.0
15,502.0	89.05	179.16	10,974.1	-5,442.5	-1,423.3	3.08	3.07	-0.29	-10.3	-16.9
15,515.0	89.49	179.12	10,974.3	-5,455.4	-1,423.1	3.40	3.38	-0.31	-10.2	-16.8
15,529.0	89.91	179.09	10,974.3	-5,469.4	-1,422.9	3.01	3.00	-0.21	-10.2	-16.7
15,542.0	90.29	179.07	10,974.3	-5,482.4	-1,422.7	2.93	2.92	-0.15	-10.3	-16.5
15,556.0	90.59	179.06	10,974.2	-5,496.4	-1,422.4	2.14	2.14	-0.07	-10.4	-16.4
15,569.0	90.76	179.08	10,974.1	-5,509.4	-1,422.2	1.32	1.31	0.15	-10.6	-16.2
15,583.0	90.85	179.11	10,973.9	-5,523.4	-1,422.0	0.68	0.64	0.21	-10.9	-16.1
15,596.0	90.91	179.14	10,973.7	-5,536.4	-1,421.8	0.52	0.46	0.23	-11.1	-16.0
15,610.0	90.95	179.19	10,973.4	-5,550.4	-1,421.6	0.46	0.29	0.36	-11.4	-15.9
15,623.0	90.99	179.24	10,973.2	-5,563.4	-1,421.4	0.49	0.31	0.38	-11.7	-15.8
15,637.0	90.95	179.28	10,973.0	-5,577.4	-1,421.2	0.40	-0.29	0.29	-12.0	-15.7

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
15,650.0	89.35	178.95	10,972.9	-5,590.4	-1,421.0	12.57	-12.31	-2.54	-12.1	-15.5
15,663.0	87.78	178.52	10,973.3	-5,603.4	-1,420.7	12.52	-12.08	-3.31	-11.8	-15.3
15,677.0	88.03	178.62	10,973.8	-5,617.4	-1,420.4	1.92	1.79	0.71	-11.3	-15.1
15,690.0	88.32	178.72	10,974.2	-5,630.4	-1,420.1	2.36	2.23	0.77	-11.0	-14.8
15,704.0	88.65	178.84	10,974.6	-5,644.4	-1,419.8	2.51	2.36	0.86	-10.6	-14.6
15,717.0	88.99	178.96	10,974.8	-5,657.4	-1,419.5	2.77	2.62	0.92	-10.4	-14.4
15,731.0	89.37	179.07	10,975.0	-5,671.4	-1,419.3	2.83	2.71	0.79	-10.3	-14.3
15,744.0	89.52	179.20	10,975.2	-5,684.4	-1,419.1	1.53	1.15	1.00	-10.2	-14.2
15,758.0	88.23	179.35	10,975.4	-5,698.4	-1,418.9	9.28	-9.21	1.07	-10.0	-14.1
15,771.0	87.41	179.05	10,975.9	-5,711.4	-1,418.7	6.72	-6.31	-2.31	-9.5	-14.0
15,785.0	88.06	179.18	10,976.5	-5,725.3	-1,418.5	4.73	4.64	0.93	-9.1	-13.8
15,798.0	88.75	179.31	10,976.8	-5,738.3	-1,418.4	5.40	5.31	1.00	-8.7	-13.7
15,812.0	89.43	179.44	10,977.1	-5,752.3	-1,418.2	4.95	4.86	0.93	-8.6	-13.7
15,825.0	90.04	179.56	10,977.1	-5,765.3	-1,418.1	4.78	4.69	0.92	-8.6	-13.6
15,839.0	90.49	179.66	10,977.1	-5,779.3	-1,418.0	3.29	3.21	0.71	-8.7	-13.6
15,852.0	89.89	179.78	10,977.0	-5,792.3	-1,417.9	4.71	-4.62	0.92	-8.8	-13.6
15,866.0	89.07	179.91	10,977.1	-5,806.3	-1,417.9	5.93	-5.86	0.93	-8.7	-13.7
15,879.0	88.94	179.93	10,977.4	-5,819.3	-1,417.9	1.01	-1.00	0.15	-8.5	-13.7
15,893.0	88.73	179.93	10,977.6	-5,833.3	-1,417.9	1.50	-1.50	0.00	-8.3	-13.8
15,906.0	88.48	179.94	10,978.0	-5,846.3	-1,417.8	1.92	-1.92	0.08	-8.0	-13.8
15,920.0	88.24	179.95	10,978.4	-5,860.3	-1,417.8	1.72	-1.71	0.07	-7.7	-13.9
15,933.0	88.06	179.98	10,978.8	-5,873.3	-1,417.8	1.40	-1.38	0.23	-7.3	-14.0
15,947.0	87.20	179.69	10,979.4	-5,887.3	-1,417.8	6.48	-6.14	-2.07	-6.8	-14.0
15,960.0	86.51	179.46	10,980.1	-5,900.3	-1,417.7	5.59	-5.31	-1.77	-6.1	-14.0
15,974.0	86.57	179.56	10,980.9	-5,914.3	-1,417.6	0.83	0.43	0.71	-5.4	-14.0
15,987.0	86.68	179.67	10,981.7	-5,927.2	-1,417.5	1.20	0.85	0.85	-4.6	-13.9
16,001.0	86.82	179.76	10,982.5	-5,941.2	-1,417.4	1.19	1.00	0.64	-3.9	-14.0



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	PEDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
16,014.0	86.99	179.84	10,983.2	-5,954.2	-1,417.4	1.44	1.31	0.62	-3.3	-14.0
16,028.0	87.19	179.88	10,983.9	-5,968.2	-1,417.3	1.46	1.43	0.29	-2.6	-14.0
16,041.0	87.45	179.86	10,984.5	-5,981.2	-1,417.3	2.01	2.00	-0.15	-2.0	-14.1
16,055.0	87.74	179.80	10,985.1	-5,995.1	-1,417.3	2.12	2.07	-0.43	-1.5	-14.1
16,068.0	88.05	179.71	10,985.6	-6,008.1	-1,417.2	2.48	2.38	-0.69	-1.1	-14.1
16,081.0	88.37	179.61	10,986.0	-6,021.1	-1,417.1	2.58	2.46	-0.77	-0.7	-14.1
16,094.0	88.72	179.49	10,986.3	-6,034.1	-1,417.0	2.85	2.69	-0.92	-0.5	-14.1
16,108.0	89.07	179.36	10,986.6	-6,048.1	-1,416.9	2.67	2.50	-0.93	-0.2	-14.1
16,121.0	89.45	179.22	10,986.7	-6,061.1	-1,416.7	3.12	2.92	-1.08	-0.1	-14.0
16,134.0	89.85	179.07	10,986.8	-6,074.1	-1,416.5	3.29	3.08	-1.15	-0.1	-13.8
16,148.0	90.26	178.91	10,986.8	-6,088.1	-1,416.3	3.14	2.93	-1.14	-0.2	-13.7
16,161.0	90.66	178.76	10,986.7	-6,101.1	-1,416.0	3.29	3.08	-1.15	-0.3	-13.5
16,175.0	91.03	178.62	10,986.5	-6,115.1	-1,415.7	2.83	2.64	-1.00	-0.6	-13.3
16,188.0	91.62	178.71	10,986.2	-6,128.1	-1,415.4	4.59	4.54	0.69	-0.9	-13.0
16,202.0	92.82	178.57	10,985.7	-6,142.1	-1,415.1	8.63	8.57	-1.00	-1.5	-12.8
16,215.0	93.64	178.46	10,984.9	-6,155.1	-1,414.7	6.36	6.31	-0.85	-2.3	-12.5
16,228.0	93.89	178.38	10,984.1	-6,168.0	-1,414.4	2.02	1.92	-0.62	-3.2	-12.2
16,242.0	94.11	178.32	10,983.1	-6,182.0	-1,414.0	1.63	1.57	-0.43	-4.3	-11.9
16,255.0	94.31	178.28	10,982.1	-6,194.9	-1,413.6	1.57	1.54	-0.31	-5.3	-11.6
16,269.0	94.50	178.24	10,981.1	-6,208.9	-1,413.2	1.39	1.36	-0.29	-6.4	-11.3
16,282.0	94.67	178.21	10,980.0	-6,221.8	-1,412.8	1.33	1.31	-0.23	-7.5	-10.9
16,296.0	94.82	178.20	10,978.9	-6,235.8	-1,412.3	1.07	1.07	-0.07	-8.7	-10.6
16,309.0	95.05	178.15	10,977.7	-6,248.7	-1,411.9	1.81	1.77	-0.38	-9.9	-10.2
16,322.0	95.46	178.03	10,976.6	-6,261.7	-1,411.5	3.29	3.15	-0.92	-11.1	-9.9
16,336.0	95.53	178.09	10,975.2	-6,275.6	-1,411.0	0.66	0.50	0.43	-12.5	-9.5
16,349.0	95.58	178.15	10,974.0	-6,288.5	-1,410.6	0.60	0.38	0.46	-13.8	-9.2
16,363.0	95.62	178.22	10,972.6	-6,302.5	-1,410.1	0.57	0.29	0.50	-15.2	-8.8

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	PEDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
16,376.0	95.66	178.28	10,971.3	-6,315.4	-1,409.7	0.55	0.31	0.46	-16.6	-8.5
16,390.0	94.44	178.84	10,970.1	-6,329.3	-1,409.4	9.58	-8.71	4.00	-17.8	-8.2
16,403.0	94.36	178.92	10,969.1	-6,342.3	-1,409.1	0.87	-0.62	0.62	-18.9	-8.0
16,416.0	94.34	178.95	10,968.1	-6,355.3	-1,408.9	0.28	-0.15	0.23	-19.9	-7.9
16,430.0	94.32	178.97	10,967.0	-6,369.2	-1,408.7	0.20	-0.14	0.14	-21.0	-7.7
16,443.0	94.29	178.99	10,966.1	-6,382.2	-1,408.4	0.28	-0.23	0.15	-22.1	-7.5
16,457.0	94.27	178.99	10,965.0	-6,396.1	-1,408.2	0.14	-0.14	0.00	-23.2	-7.4
16,470.0	94.27	178.99	10,964.0	-6,409.1	-1,407.9	0.00	0.00	0.00	-24.2	-7.2
16,484.0	93.41	179.51	10,963.1	-6,423.1	-1,407.8	7.17	-6.14	3.71	-25.2	-7.1
16,497.0	91.95	179.50	10,962.5	-6,436.0	-1,407.7	11.23	-11.23	-0.08	-25.9	-7.1
16,511.0	90.81	179.51	10,962.2	-6,450.0	-1,407.5	8.14	-8.14	0.07	-26.2	-7.0
16,524.0	90.94	179.46	10,962.0	-6,463.0	-1,407.4	1.07	1.00	-0.38	-26.5	-7.0
16,538.0	91.09	179.40	10,961.7	-6,477.0	-1,407.3	1.15	1.07	-0.43	-26.8	-6.9
16,551.0	91.25	179.34	10,961.5	-6,490.0	-1,407.1	1.31	1.23	-0.46	-27.1	-6.9
16,565.0	91.40	179.27	10,961.1	-6,504.0	-1,407.0	1.18	1.07	-0.50	-27.5	-6.8
16,578.0	90.73	179.37	10,960.9	-6,517.0	-1,406.8	5.21	-5.15	0.77	-27.8	-6.7
16,592.0	89.46	179.46	10,960.9	-6,531.0	-1,406.7	9.09	-9.07	0.64	-27.9	-6.6
16,605.0	89.57	179.41	10,961.0	-6,544.0	-1,406.5	0.93	0.85	-0.38	-27.8	-6.6
16,619.0	89.67	179.36	10,961.1	-6,558.0	-1,406.4	0.80	0.71	-0.36	-27.8	-6.5
16,632.0	89.77	179.31	10,961.1	-6,571.0	-1,406.2	0.86	0.77	-0.38	-27.8	-6.4
16,646.0	89.87	179.25	10,961.2	-6,585.0	-1,406.1	0.83	0.71	-0.43	-27.8	-6.3
16,659.0	89.98	179.20	10,961.2	-6,598.0	-1,405.9	0.93	0.85	-0.38	-27.8	-6.2
16,673.0	90.09	179.15	10,961.2	-6,612.0	-1,405.7	0.86	0.79	-0.36	-27.9	-6.1
16,686.0	90.21	179.10	10,961.2	-6,625.0	-1,405.5	1.00	0.92	-0.38	-28.0	-6.0
16,700.0	90.34	179.05	10,961.1	-6,639.0	-1,405.3	0.99	0.93	-0.36	-28.1	-5.8
16,713.0	90.48	179.00	10,961.0	-6,652.0	-1,405.0	1.14	1.08	-0.38	-28.2	-5.7
16,727.0	90.63	178.95	10,960.9	-6,666.0	-1,404.8	1.13	1.07	-0.36	-28.4	-5.5



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	PEDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
16,740.0	90.78	178.90	10,960.7	-6,679.0	-1,404.5	1.22	1.15	-0.38	-28.6	-5.4
16,754.0	90.93	178.87	10,960.5	-6,693.0	-1,404.3	1.09	1.07	-0.21	-28.9	-5.2
16,767.0	91.06	178.85	10,960.3	-6,706.0	-1,404.0	1.01	1.00	-0.15	-29.2	-5.0
16,781.0	91.19	178.84	10,960.0	-6,720.0	-1,403.7	0.93	0.93	-0.07	-29.5	-4.8
16,794.0	91.30	178.87	10,959.7	-6,733.0	-1,403.5	0.88	0.85	0.23	-29.8	-4.6
16,808.0	91.39	178.92	10,959.4	-6,747.0	-1,403.2	0.74	0.64	0.36	-30.2	-4.4
16,821.0	91.48	178.98	10,959.0	-6,760.0	-1,403.0	0.83	0.69	0.46	-30.6	-4.3
16,835.0	91.57	179.04	10,958.7	-6,774.0	-1,402.7	0.77	0.64	0.43	-31.0	-4.1
16,848.0	91.66	179.10	10,958.3	-6,787.0	-1,402.5	0.83	0.69	0.46	-31.4	-4.0
16,862.0	90.36	179.38	10,958.1	-6,801.0	-1,402.3	9.50	-9.29	2.00	-31.7	-3.8
16,875.0	90.12	179.48	10,958.0	-6,814.0	-1,402.2	2.00	-1.85	0.77	-31.9	-3.8
16,888.0	90.26	179.51	10,958.0	-6,827.0	-1,402.1	1.10	1.08	0.23	-31.9	-3.8
16,902.0	90.41	179.53	10,957.9	-6,841.0	-1,402.0	1.08	1.07	0.14	-32.1	-3.7
16,915.0	90.57	179.55	10,957.8	-6,854.0	-1,401.9	1.24	1.23	0.15	-32.2	-3.7
16,929.0	90.73	179.57	10,957.6	-6,868.0	-1,401.7	1.15	1.14	0.14	-32.5	-3.7
16,942.0	90.89	179.58	10,957.4	-6,880.9	-1,401.7	1.23	1.23	0.08	-32.7	-3.6
16,956.0	91.05	179.60	10,957.2	-6,894.9	-1,401.6	1.15	1.14	0.14	-33.0	-3.6
16,969.0	91.19	179.62	10,956.9	-6,907.9	-1,401.5	1.09	1.08	0.15	-33.3	-3.6
16,982.0	91.32	179.65	10,956.7	-6,920.9	-1,401.4	1.03	1.00	0.23	-33.6	-3.6
16,996.0	91.44	179.68	10,956.3	-6,934.9	-1,401.3	0.88	0.86	0.21	-34.0	-3.6
17,009.0	91.55	179.72	10,956.0	-6,947.9	-1,401.2	0.90	0.85	0.31	-34.4	-3.6
17,023.0	91.65	179.75	10,955.6	-6,961.9	-1,401.2	0.75	0.71	0.21	-34.9	-3.6
17,036.0	91.74	179.77	10,955.2	-6,974.9	-1,401.1	0.71	0.69	0.15	-35.3	-3.6
17,050.0	90.39	179.87	10,954.9	-6,988.9	-1,401.1	9.67	-9.64	0.71	-35.6	-3.7
17,063.0	89.46	179.74	10,955.0	-7,001.9	-1,401.0	7.22	-7.15	-1.00	-35.7	-3.7
17,077.0	89.51	179.74	10,955.1	-7,015.9	-1,401.0	0.36	0.36	0.00	-35.6	-3.7
17,090.0	89.55	179.73	10,955.2	-7,028.9	-1,400.9	0.32	0.31	-0.08	-35.5	-3.7

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)	
17,104.0	89.59	179.72	10,955.3	-7,042.9	-1,400.8	0.29	0.29	-0.07	-35.5	-3.8	
17,117.0	89.63	179.71	10,955.4	-7,055.9	-1,400.8	0.32	0.31	-0.08	-35.4	-3.8	
17,131.0	89.68	179.71	10,955.5	-7,069.9	-1,400.7	0.36	0.36	0.00	-35.4	-3.8	
17,144.0	89.74	179.70	10,955.5	-7,082.9	-1,400.6	0.47	0.46	-0.08	-35.4	-3.8	
17,158.0	89.82	179.71	10,955.6	-7,096.9	-1,400.6	0.58	0.57	0.07	-35.4	-3.8	
17,171.0	89.93	179.73	10,955.6	-7,109.9	-1,400.5	0.86	0.85	0.15	-35.4	-3.8	
17,185.0	90.06	179.76	10,955.6	-7,123.9	-1,400.4	0.95	0.93	0.21	-35.5	-3.8	
17,198.0	90.21	179.80	10,955.6	-7,136.9	-1,400.4	1.19	1.15	0.31	-35.6	-3.9	
17,212.0	90.36	179.83	10,955.5	-7,150.9	-1,400.3	1.09	1.07	0.21	-35.7	-3.9	
17,225.0	90.50	179.86	10,955.4	-7,163.9	-1,400.3	1.10	1.08	0.23	-35.8	-3.9	
17,239.0	90.64	179.89	10,955.3	-7,177.9	-1,400.3	1.02	1.00	0.21	-36.0	-4.0	
17,252.0	90.76	179.90	10,955.1	-7,190.9	-1,400.2	0.93	0.92	0.08	-36.2	-4.0	
17,266.0	90.85	179.88	10,954.9	-7,204.9	-1,400.2	0.66	0.64	-0.14	-36.5	-4.1	
17,279.0	90.92	179.86	10,954.7	-7,217.9	-1,400.2	0.56	0.54	-0.15	-36.7	-4.1	
17,293.0	90.99	179.83	10,954.5	-7,231.9	-1,400.2	0.54	0.50	-0.21	-37.0	-4.2	
17,306.0	91.05	179.80	10,954.3	-7,244.9	-1,400.1	0.52	0.46	-0.23	-37.3	-4.2	
17,320.0	91.10	179.78	10,954.0	-7,258.9	-1,400.1	0.38	0.36	-0.14	-37.6	-4.2	
17,333.0	90.59	179.79	10,953.8	-7,271.9	-1,400.0	3.92	-3.92	0.08	-37.9	-4.3	
17,347.0	89.49	179.83	10,953.8	-7,285.9	-1,400.0	7.86	-7.86	0.29	-37.9	-4.3	
17,360.0	89.56	179.87	10,953.9	-7,298.9	-1,399.9	0.62	0.54	0.31	-37.9	-4.3	
17,374.0	89.64	179.93	10,954.0	-7,312.9	-1,399.9	0.71	0.57	0.43	-37.8	-4.4	
17,387.0	89.71	180.00	10,954.1	-7,325.9	-1,399.9	0.76	0.54	0.54	-37.8	-4.5	
17,401.0	89.80	180.08	10,954.1	-7,339.9	-1,399.9	0.86	0.64	0.57	-37.8	-4.6	
17,414.0	89.89	180.15	10,954.2	-7,352.9	-1,399.9	0.88	0.69	0.54	-37.8	-4.7	
17,428.0	89.99	180.22	10,954.2	-7,366.9	-1,400.0	0.87	0.71	0.50	-37.9	-4.8	
17,441.0	90.11	180.29	10,954.2	-7,379.9	-1,400.0	1.07	0.92	0.54	-37.9	-4.9	
17,454.0	90.26	180.34	10,954.1	-7,392.9	-1,400.1	1.22	1.15	0.38	-38.0	-5.1	

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)	
17,468.0	90.43	180.38	10,954.0	-7,406.9	-1,400.2	1.25	1.21	0.29	-38.2	-5.2	
17,481.0	90.60	180.42	10,953.9	-7,419.9	-1,400.3	1.34	1.31	0.31	-38.3	-5.4	
17,495.0	90.78	180.45	10,953.8	-7,433.9	-1,400.4	1.30	1.29	0.21	-38.6	-5.6	
17,508.0	90.95	180.47	10,953.6	-7,446.9	-1,400.5	1.32	1.31	0.15	-38.8	-5.8	
17,522.0	91.12	180.49	10,953.3	-7,460.9	-1,400.6	1.22	1.21	0.14	-39.1	-6.0	
17,535.0	91.27	180.49	10,953.0	-7,473.9	-1,400.7	1.15	1.15	0.00	-39.4	-6.2	
17,548.0	91.40	180.48	10,952.7	-7,486.9	-1,400.8	1.00	1.00	-0.08	-39.8	-6.3	
17,562.0	91.51	180.47	10,952.4	-7,500.9	-1,401.0	0.79	0.79	-0.07	-40.2	-6.5	
17,575.0	90.80	180.36	10,952.1	-7,513.9	-1,401.0	5.53	-5.46	-0.85	-40.5	-6.7	
17,589.0	89.31	180.02	10,952.1	-7,527.9	-1,401.1	10.92	-10.64	-2.43	-40.6	-6.8	
17,602.0	89.40	179.99	10,952.3	-7,540.9	-1,401.1	0.73	0.69	-0.23	-40.5	-6.9	
17,616.0	89.50	179.96	10,952.4	-7,554.9	-1,401.1	0.75	0.71	-0.21	-40.4	-7.0	
17,629.0	89.60	179.93	10,952.5	-7,567.9	-1,401.1	0.80	0.77	-0.23	-40.4	-7.0	
17,643.0	89.71	179.90	10,952.6	-7,581.9	-1,401.1	0.81	0.79	-0.21	-40.3	-7.1	
17,656.0	89.82	179.87	10,952.6	-7,594.9	-1,401.0	0.88	0.85	-0.23	-40.3	-7.2	
17,670.0	89.94	179.85	10,952.7	-7,608.9	-1,401.0	0.87	0.86	-0.14	-40.4	-7.2	
17,683.0	90.05	179.82	10,952.7	-7,621.9	-1,401.0	0.88	0.85	-0.23	-40.4	-7.2	
17,697.0	90.17	179.78	10,952.6	-7,635.9	-1,400.9	0.90	0.86	-0.29	-40.5	-7.3	
17,710.0	89.62	179.50	10,952.7	-7,648.9	-1,400.8	4.75	-4.23	-2.15	-40.5	-7.3	
17,724.0	89.09	179.28	10,952.8	-7,662.9	-1,400.7	4.10	-3.79	-1.57	-40.4	-7.2	
17,737.0	89.18	179.21	10,953.0	-7,675.9	-1,400.5	0.88	0.69	-0.54	-40.3	-7.1	
17,751.0	89.28	179.13	10,953.2	-7,689.9	-1,400.3	0.91	0.71	-0.57	-40.2	-7.0	
17,764.0	89.36	179.05	10,953.4	-7,702.9	-1,400.1	0.87	0.62	-0.62	-40.0	-6.9	
17,778.0	89.45	178.96	10,953.5	-7,716.9	-1,399.9	0.91	0.64	-0.64	-40.0	-6.7	
17,791.0	89.53	178.88	10,953.6	-7,729.9	-1,399.6	0.87	0.62	-0.62	-39.9	-6.5	
17,805.0	89.61	178.79	10,953.7	-7,743.9	-1,399.3	0.86	0.57	-0.64	-39.8	-6.3	
17,818.0	89.68	178.72	10,953.8	-7,756.8	-1,399.0	0.76	0.54	-0.54	-39.8	-6.1	



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #529H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3671.0usft
Site:	Modelo 3 Fed Com	MD Reference:	kb = 26' @ 3671.0usft
Well:	#529H	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)
17,831.0	89.74	178.66	10,953.9	-7,769.8	-1,398.7	0.65	0.46	-0.46	-39.8	-5.9
17,845.0	89.80	178.60	10,953.9	-7,783.8	-1,398.4	0.61	0.43	-0.43	-39.8	-5.6
17,858.0	89.85	178.56	10,954.0	-7,796.8	-1,398.1	0.49	0.38	-0.31	-39.8	-5.4
17,872.0	89.91	178.52	10,954.0	-7,810.8	-1,397.7	0.52	0.43	-0.29	-39.8	-5.1
17,885.0	89.98	178.48	10,954.0	-7,823.8	-1,397.4	0.62	0.54	-0.31	-39.9	-4.9
17,899.0	88.52	178.43	10,954.2	-7,837.8	-1,397.0	10.43	-10.43	-0.36	-39.8	-4.6
17,912.0	88.61	178.41	10,954.5	-7,850.8	-1,396.7	0.71	0.69	-0.15	-39.5	-4.3
17,926.0	88.72	178.41	10,954.8	-7,864.8	-1,396.3	0.79	0.79	0.00	-39.2	-4.0
17,939.0	88.84	178.41	10,955.1	-7,877.8	-1,395.9	0.92	0.92	0.00	-39.0	-3.7
17,953.0	88.97	178.41	10,955.4	-7,891.8	-1,395.5	0.93	0.93	0.00	-38.8	-3.4
17,966.0	89.10	178.42	10,955.6	-7,904.8	-1,395.2	1.00	1.00	0.08	-38.6	-3.1
17,980.0	89.23	178.43	10,955.8	-7,918.8	-1,394.8	0.93	0.93	0.07	-38.5	-2.8
17,993.0	89.35	178.44	10,956.0	-7,931.8	-1,394.4	0.93	0.92	0.08	-38.3	-2.5
18,007.0	89.46	178.44	10,956.1	-7,945.8	-1,394.0	0.79	0.79	0.00	-38.3	-2.2
18,101.0	90.66	178.74	10,956.0	-8,039.7	-1,391.7	1.32	1.28	0.32	-38.7	-0.4
18,195.0	88.90	178.92	10,956.4	-8,133.7	-1,389.8	1.88	-1.87	0.19	-38.7	0.9
18,289.0	89.77	179.00	10,957.5	-8,227.7	-1,388.1	0.93	0.93	0.09	-38.0	2.1
18,384.0	89.87	179.21	10,957.8	-8,322.7	-1,386.6	0.24	0.11	0.22	-38.1	3.0
18,478.0	90.50	179.47	10,957.5	-8,416.7	-1,385.5	0.73	0.67	0.28	-38.8	3.6
Last MWD Survey (MD=18478.0')										
18,667.0	90.50	179.47	10,955.8	-8,605.7	-1,383.8	0.00	0.00	0.00	-41.2	4.2
Projection to Bit (MD=18667.0')										



Final PVA

Company: Midland
Project: Lea County, NM (NAD 83 NME)
Site: Modelo 3 Fed Com
Well: #529H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #529H
TVD Reference: kb = 26' @ 3671.0usft
MD Reference: kb = 26' @ 3671.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: PEDM

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,066.4	7,862.8	-796.3	-1,376.7	LL Crossing, MD:8066.4', TVD:7862.8', N/S:-796.3', E/W:-1376.7', INC:7.76
10,550.0	10,339.2	-836.5	-1,528.3	KOP, MD:10550.0', TVD:10339.2', N/S:-836.5', E/W:-1528.3', INC:2.58
10,805.8	10,582.7	-897.8	-1,502.9	FTP Crossing, MD:10805.8', TVD:10582.7', N/S:-897.8', E/W:-1502.9', INC:30.6'
18,478.0	10,957.5	-8,416.7	-1,385.5	Last MWD Survey (MD=18478.0')
18,667.0	10,955.8	-8,605.7	-1,383.8	Projection to Bit (MD=18667.0')

Checked By: _____ Approved By: _____ Date: _____

I CERTIFY THIS SURVEY TO BE TRUE AND CORRECT TO THE BEST OF MY BELIEF AND KNOWLEDGE
 KAY MADDOX 06/08/2022



Lea County, NM (NAD 83 NME)

Modelo 3 Fed Com #529H

Plan #1

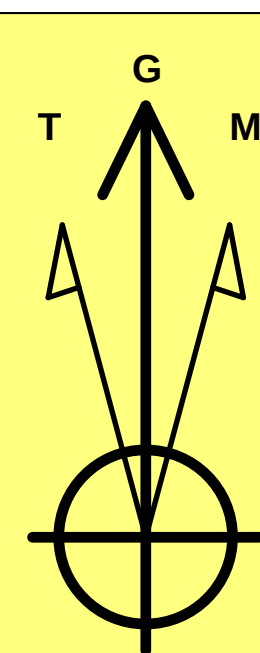
PROJECT DETAILS: Lea County, NM (NAD 83 NME)

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

WELL DETAILS: #529H

3645.0
Northing 452243.00 Easting 749410.00 Latitude 32° 14' 29.399 N Longitude 103° 39' 37.233 W
kb = 26' @ 3671.0usft

Azimuths to Grid North
True North: -0.36°
Magnetic North: 6.18°
Magnetic Field
Strength: 47450.2nT
Dip Angle: 59.89°
Date: 11/15/2021
Model: IGRF2020



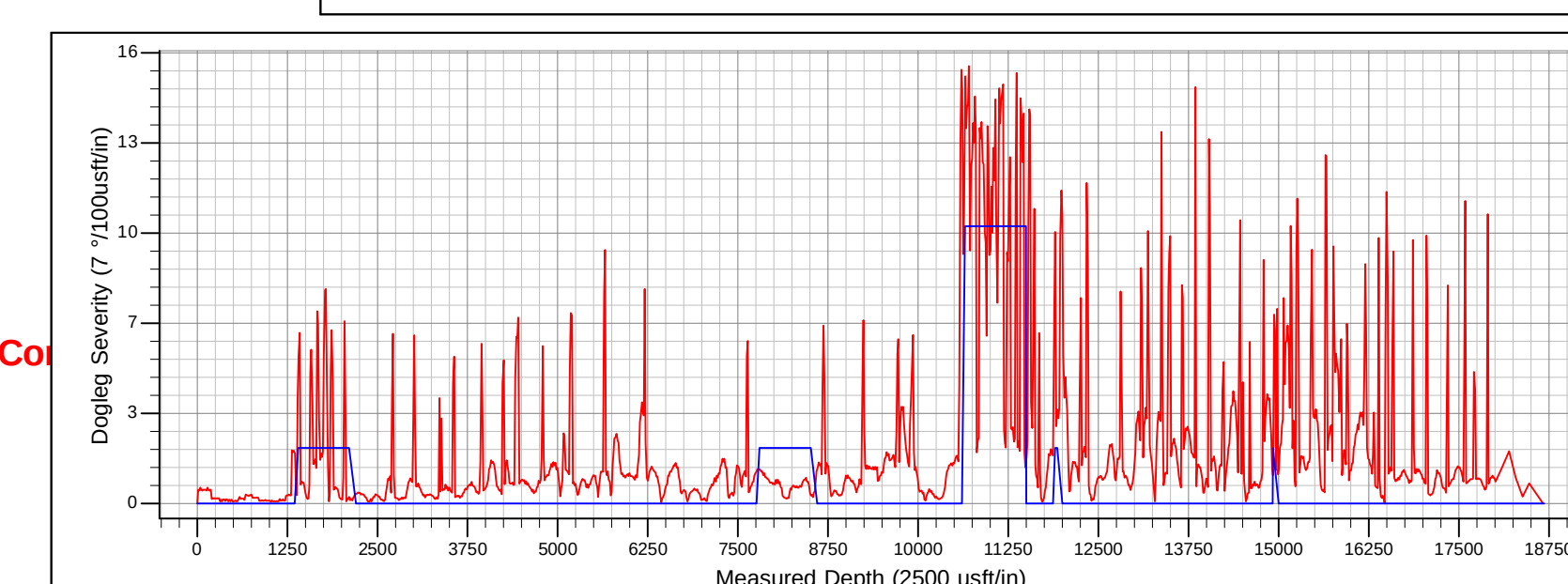
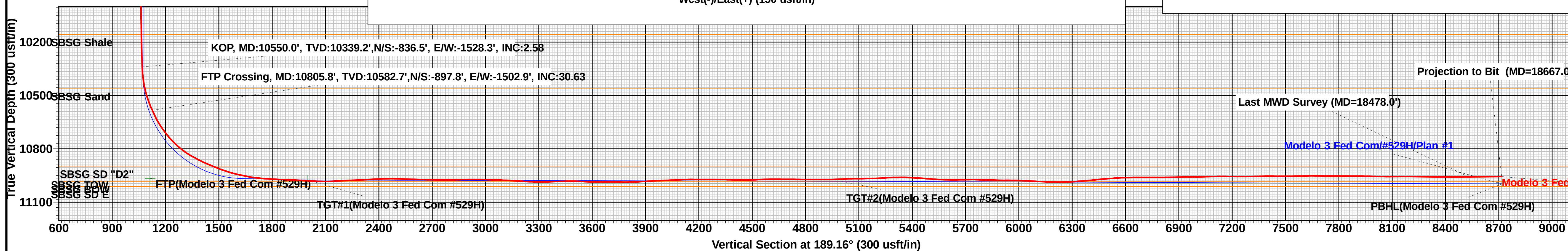
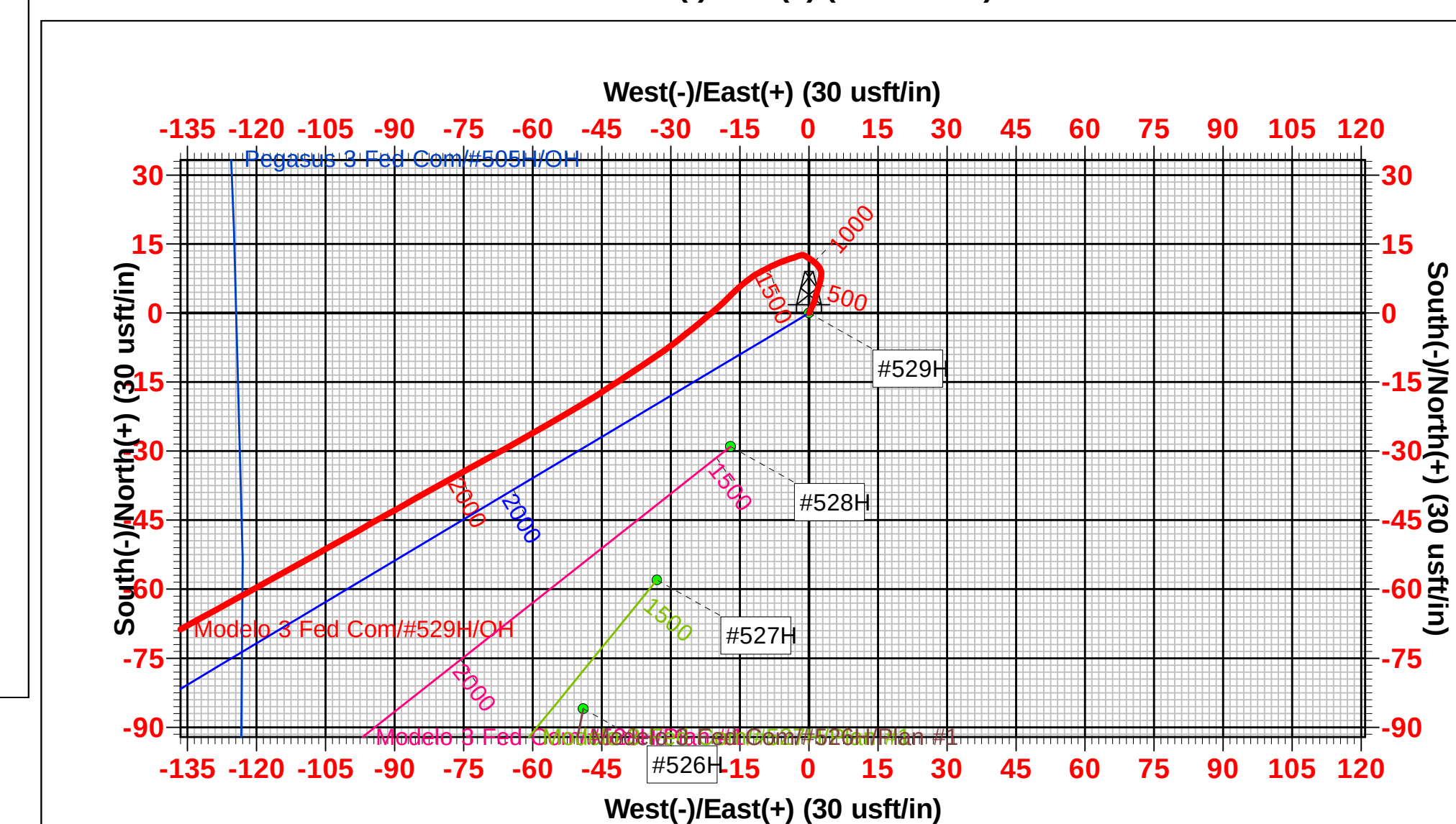
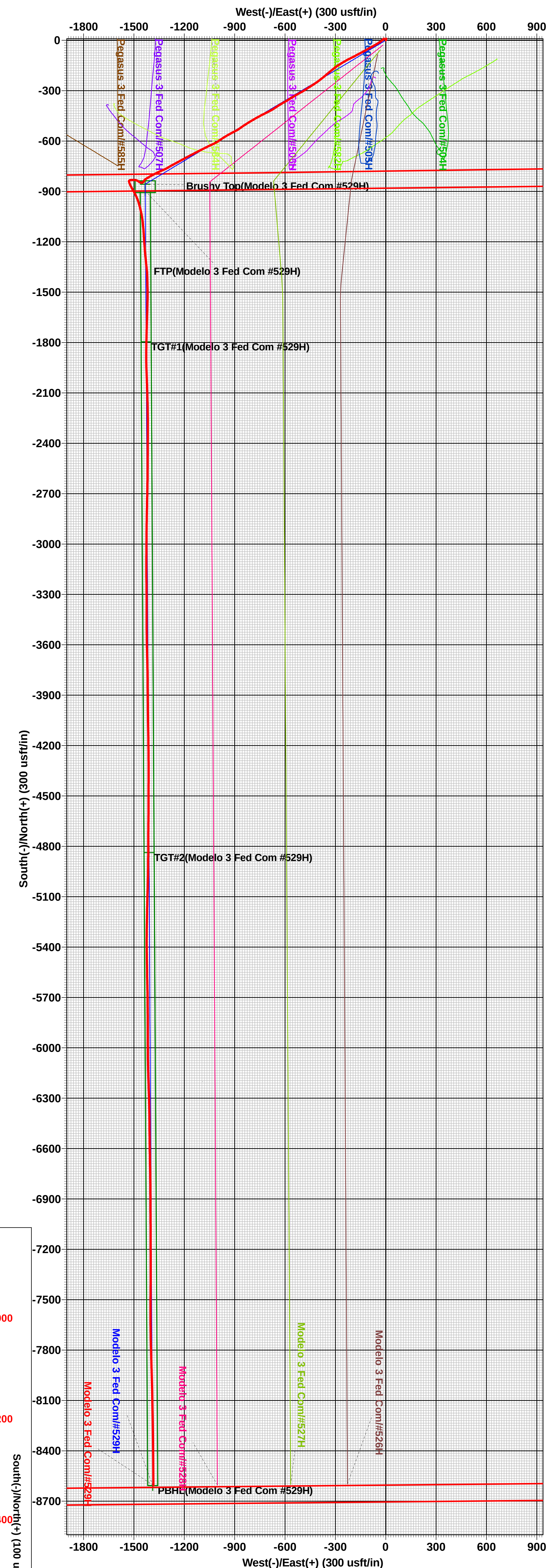
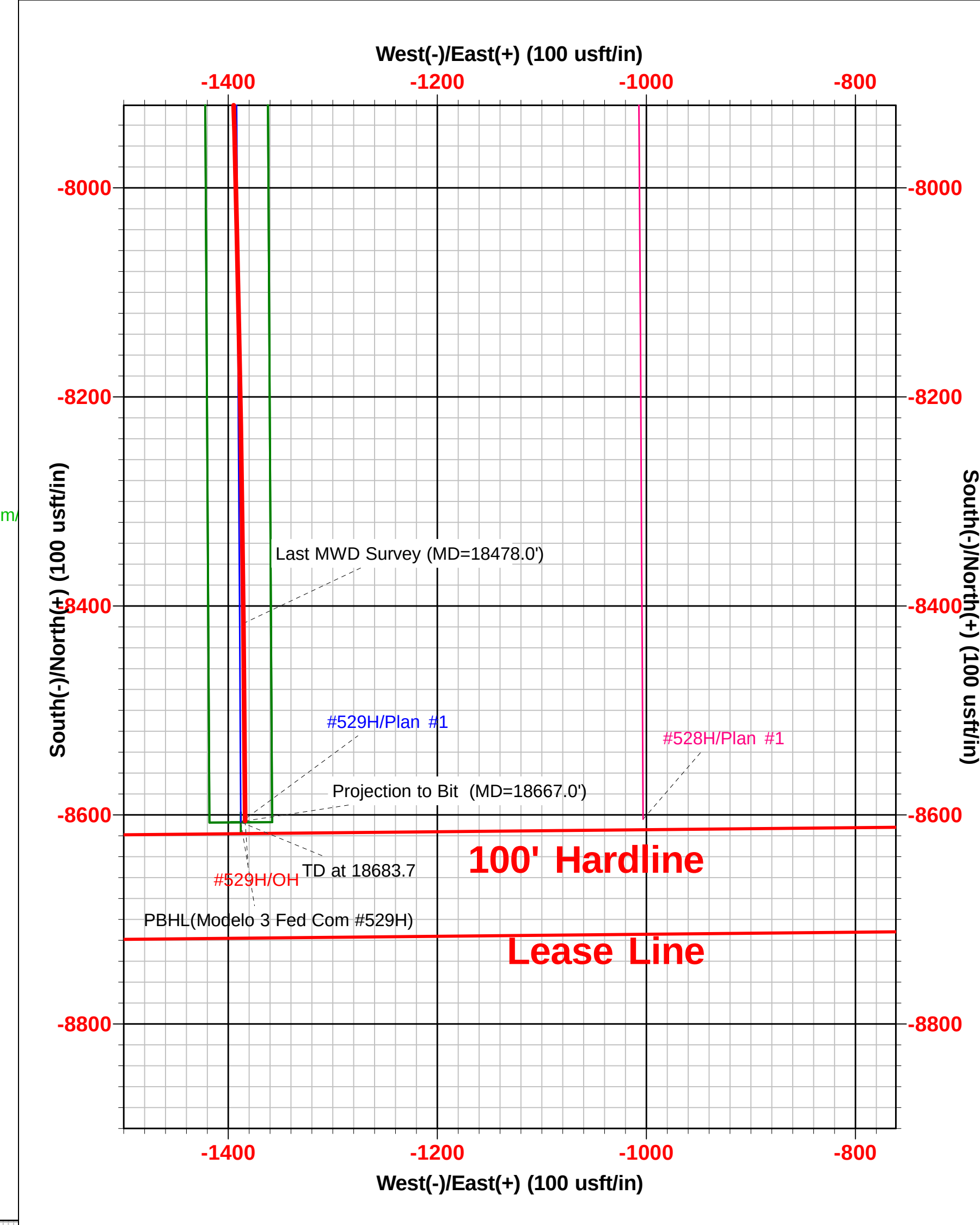
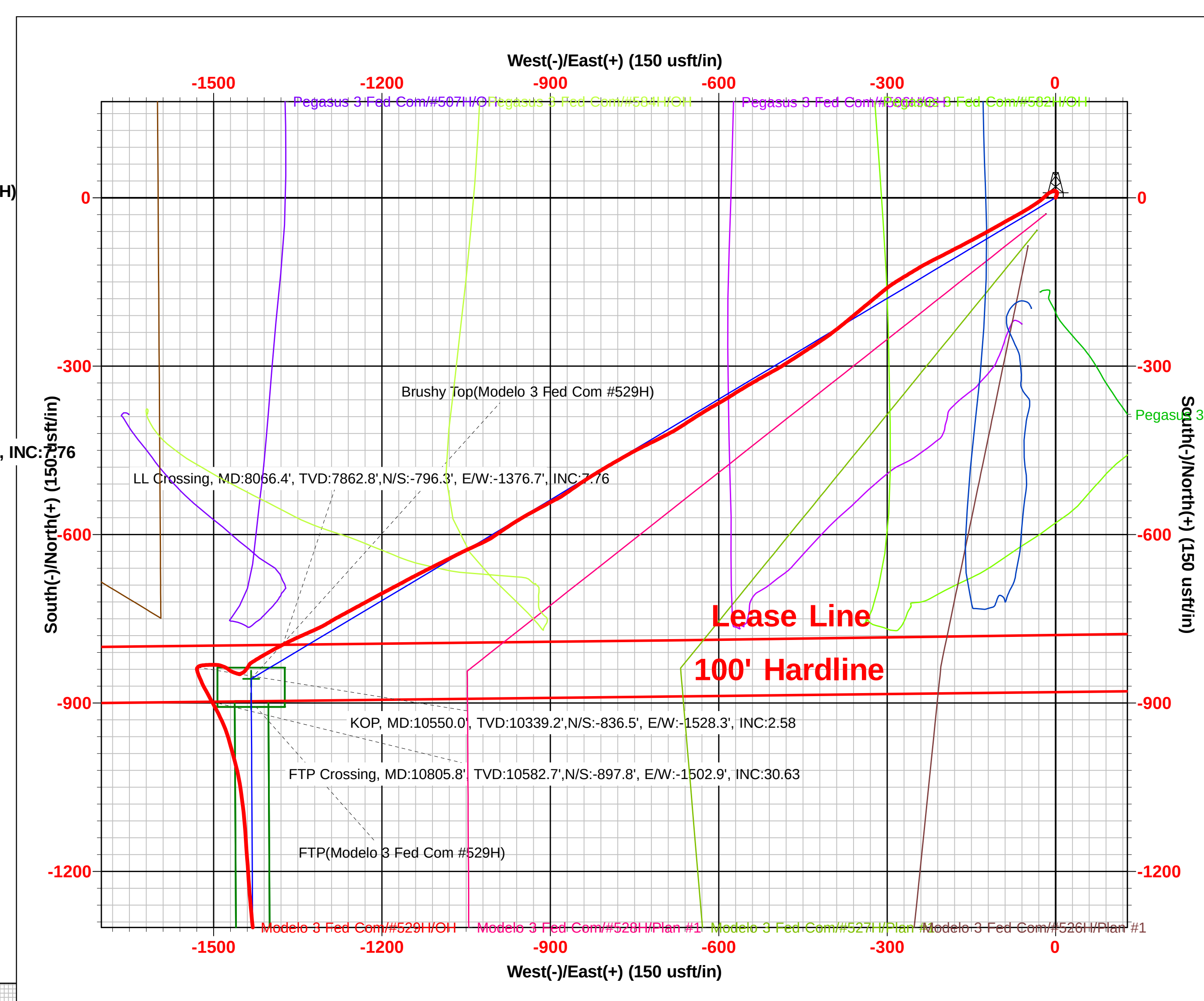
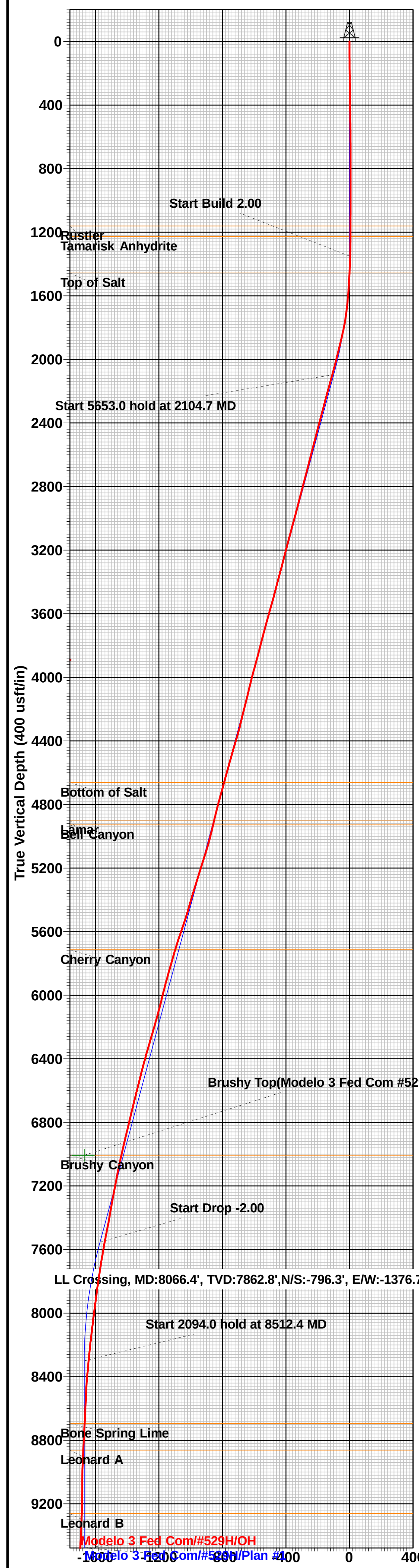
To convert a Magnetic Direction to a Grid Direction, Add 6.18°
To convert a Magnetic Direction to a True Direction, Add 6.54° East
To convert a True Direction to a Grid Direction, Subtract 0.36°

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1350.0	0.00	0.00	1350.0	0.0	0.0	0.00	0.00	0.0	
2104.7	15.09	239.12	2096.0	-50.7	-84.8	2.00	239.12	63.6	
7757.7	15.09	239.12	7554.0	-806.3	-1348.2	0.00	0.00	1010.6	
8512.4	0.00	0.00	8300.0	-857.0	-1433.0	2.00	180.00	1074.2	
10606.4	0.00	0.00	10394.0	-857.0	-1433.0	0.00	0.00	1074.2	
11494.0	88.76	179.66	10966.8	-1417.6	-1429.7	10.00	179.66	1627.1	
11872.2	88.76	179.66	10975.0	-1795.6	-1427.5	0.00	0.00	2000.0	TGT#1(Modelo 3 Fed Com #529H)
11928.0	89.88	179.67	10975.7	-1851.5	-1427.2	2.00	0.18	2055.1	TGT#2(Modelo 3 Fed Com #529H)
14913.8	89.88	179.67	10982.0	-4837.2	-1409.9	0.00	0.00	5000.0	
14919.2	89.77	179.67	10982.0	-4842.5	-1409.8	2.00	-179.98	5005.2	
18683.7	89.77	179.67	10997.0	-8607.0	-1388.0	0.00	0.00	8718.2	PBHL(Modelo 3 Fed Com #529H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top(Modelo 3 Fed Com #529H)	7007.0	-857.0	-1433.0	451386.00	747977.00
FTP(Modelo 3 Fed Com #529H)	10967.0	-897.0	-1433.0	451346.00	747977.00
TGT#1(Modelo 3 Fed Com #529H)	10975.0	-1795.6	-1427.5	450447.40	747982.50
TGT#2(Modelo 3 Fed Com #529H)	10982.0	-4837.2	-1409.9	447405.80	748000.14
PBHL(Modelo 3 Fed Com #529H)	10997.0	-8607.0	-1388.0	443636.00	748022.00



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		
								MODELO 3 FEDERAL COM 6. Well Number: 529H		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER _____										
8. Name of Operator							9. OGRID			
EOG RESOURCES INC							7377			
10. Address of Operator							11. Pool name or Wildcat			
PO BOX 2267 MIDLAND, TEXAS 79702							TRISTE DRAW; BONE SPRING			
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	O	3	24S	32E		779	SOUTH	1975	EAST	LEA
BH:	F	15	24S	32E		2527	NORTH	1874	WEST	LEA
13. Date Spudded	14. Date T.D. Reached		15. Date Rig Released		16. Date Completed (Ready to Produce)			17. Elevations (DF and RKB, RT, GR, etc.)		
12/23/2021	01/21/2022		01/22/2022		05/26/2022			3650' GL		
18. Total Measured Depth of Well			19. Plug Back Measured Depth		20. Was Directional Survey Made?			21. Type Electric and Other Logs Run		
MD 18,667' TVD 10,955'			MD 18,641' 10,955'		YES			None		
22. Producing Interval(s), of this completion - Top, Bottom, Name										
BONE SPRING 11,156 - 18,641'										
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		1261'		17 1/2"		950 CL C/CIRC		
9 5/8"		40# J-55		5071'		12 1/4"		1320 CL C/CIRC		
5 1/2"		20# HCP-110		18,649'		8 3/4"		2770 CL C&H/TOC 2530		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)						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
11,156 - 18,641' 3 1/8", 1596 holes						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						11,156 - 18,641'		FRAC W/18,625,667 lbs proppant, 247,929 bbls load fld		
PRODUCTION										
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)				
05/26/2022		Flowing				Producing				
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio			
06/04/2022	24			1192	1922	5006	1613			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)				
	1001					45				
29. Disposition of Gas (Sold, used for fuel, vented, etc.)								30. Test Witnessed By		
SOLD										
31. List Attachments										
C-102, C-104, Directional Survey, H spacing										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.										
33. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude _____ Longitude _____ NAD 1927 1983										
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief Signature Kay Maddox Name Kay Maddox Title Senior Regulatory Specialist Date 06/21/2022 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	1185'	T. Canyon	Brushy	7135'	T. Ojo Alamo	T. Penn A "
T. Salt		1510'	T. Strawn			T. Kirtland	T. Penn. "B"
B. Salt		4685'	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	9930'		T. Entrada	
T. Wolfcamp			T. 2nd BS Sand	10,515'		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 119296

ACKNOWLEDGMENTS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 119296
	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

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

CONDITIONS

Action 119296

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 119296
	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.	8/28/2025