

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

Submit one copy to appropriate District Office

Oil Conservation Division
1220 South St. Francis Dr.

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE MINERAL AUTHORIZATION TO TRANSPORT

¹ Operator name and Address EOG RESOURCES INC PO BOX 2267 MIDLAND, TEXAS 79702		² OGRID Number 7377	
		³ Reason for Filing Code/ Effective Date NW 03/02/2022	
⁴ API Number 30 - 025 -49383	⁵ Pool Name BOBCAT DRAW; UPPER WOLFCAMP		⁶ Pool Code 98094
⁷ Property Code 331512	⁸ Property Name APPALOOSA 18 FEDERAL COM		⁹ Well Number 701H

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
M	18	25S	34E		235	SOUTH	825	WEST	LEA

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	7	25S	34E		2531	SOUTH	344	WEST	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 10/31/2021	²² Ready Date 03/02/2022	²³ TD 20,138	²⁴ PBTD 20,111	²⁵ Perforations 12,638 - 20,111'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
12 1/4"	9 5/8"	1077'	465 SXS CL C/CIRC		
8 3/4"	7 5/8"	11,794'	1537 SXS CL C&H/CIRC		
6 3/4"	5 1/2"	20,120'	745 SXS CL H TOC 11,822 CBL PRESS TEST- ATTACHED		

V. Well Test Data

³¹ Date New Oil 03/02/2022	³² Gas Delivery Date 03/02/2022	³³ Test Date 03/11/2022	³⁴ Test Length 24 HRS	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 662
³⁷ Choke Size 128	³⁸ Oil 3482	³⁹ Water 4975	⁴⁰ Gas 5966		⁴¹ Test Method

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: Kay Maddox Printed name: Kay Maddox Title: SENIOR REGULATORY SPECIALIST E-mail Address: kay_maddox@eogresources.com Date: 03/30/2022	Phone: 432-638-8475	OIL CONSERVATION DIVISION	
	Approved by: <i>PATRICIA MARTINEZ</i>		
	Title: <i>PETROLEUM SPECIALIST</i>		
	Approval Date: <i>11/17/2023</i>		

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- 49383	² Pool Code 98094	³ Pool Name Bobcat Draw; Upper Wolfcamp
⁴ Property Code 331512	⁵ Property Name APPALOOSA 18 FED COM	⁶ Well Number 701H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3336'

¹⁰Surface Location

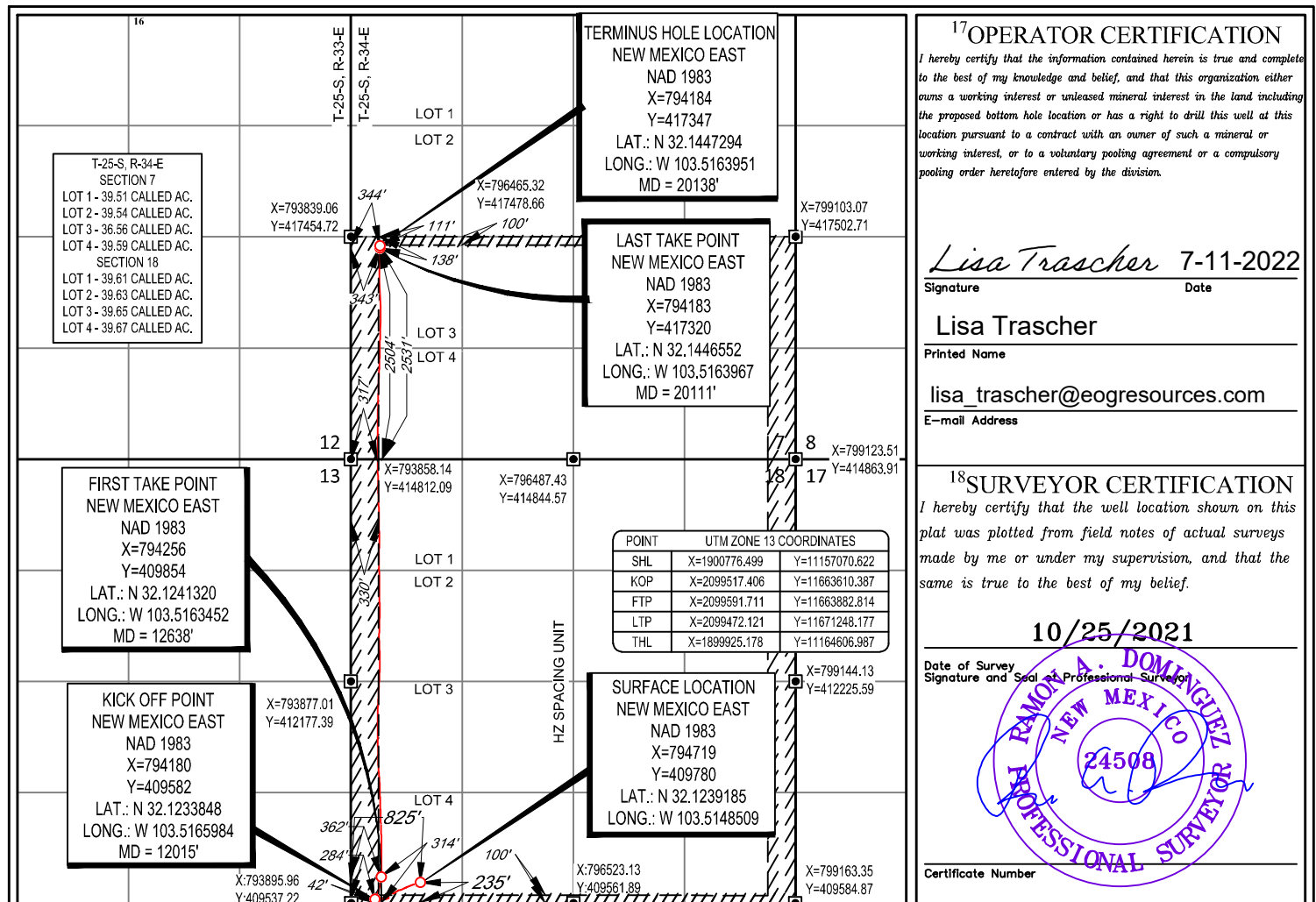
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	18	25-S	34-E	-	235'	SOUTH	825'	WEST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	7	25-S	34-E	-	2531'	SOUTH	344'	WEST	LEA

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
957.71			2135

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.





Midland

Lea County, NM (NAD 83 NME)

Appaloosa 18 Fed Com

#701H

OH

Design: OH

Final PVA

06 January, 2022

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	PEDM

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Appaloosa 18 Fed Com		
Site Position:		Northing:	409,826.00 usft
From:	Map	Easting:	795,034.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 7' 26.538 N
		Longitude:	103° 30' 49.799 W
		Grid Convergence:	0.44 °

Well		#701H				
Well Position	+N/-S	0.0 usft	Northing:	409,780.00 usft	Latitude:	32° 7' 26.107 N
	+E/-W	0.0 usft	Easting:	794,719.00 usft	Longitude:	103° 30' 53.466 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,336.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	12/15/2021	6.45	59.80	47,388.93959320

Design	OH			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	355.85

Survey Program	Date	1/6/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
199.0	20,138.0	MS MWD (OH)	MWD+IGRF+SAG+FDIR	OWSG MWD + IGRF or WMM + Sag Correction + FDI

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Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	PEDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	
199.0	0.51	227.00	199.0	-0.6	-0.6	0.26	0.26	0.00	-0.9	0.0	
294.0	0.68	220.01	294.0	-1.3	-1.3	0.19	0.18	-7.36	-1.9	-0.2	
469.0	0.38	167.05	469.0	-2.7	-1.9	0.31	-0.17	-30.26	-2.2	-2.4	
656.0	0.15	171.31	656.0	-3.5	-1.7	0.12	-0.12	2.28	-3.2	-2.2	
752.0	0.31	87.88	752.0	-3.6	-1.4	0.34	0.17	-86.91	1.5	-3.6	
848.0	0.23	104.12	848.0	-3.7	-1.0	0.11	-0.08	16.92	0.0	-3.8	
943.0	0.59	119.22	943.0	-4.0	-0.3	0.39	0.38	15.89	-1.6	-3.6	
1,015.0	0.48	90.36	1,015.0	-4.2	0.3	0.40	-0.15	-40.08	-0.3	-4.1	
1,030.0	0.47	93.23	1,030.0	-4.2	0.4	0.17	-0.07	19.13	-0.6	-4.1	
1,045.0	0.47	96.17	1,045.0	-4.2	0.5	0.16	0.00	19.60	-1.0	-4.1	
1,060.0	0.46	99.18	1,060.0	-4.2	0.6	0.18	-0.07	20.07	-1.3	-4.0	
1,075.0	0.46	102.24	1,075.0	-4.2	0.8	0.16	0.00	20.40	-1.6	-3.9	
1,090.0	0.46	105.33	1,090.0	-4.2	0.9	0.17	0.00	20.60	-2.0	-3.8	
1,105.0	0.46	108.41	1,105.0	-4.3	1.0	0.16	0.00	20.53	-2.3	-3.7	
1,120.0	0.47	111.45	1,120.0	-4.3	1.1	0.18	0.07	20.27	-2.7	-3.6	
1,135.0	0.47	114.44	1,135.0	-4.4	1.2	0.16	0.00	19.93	-3.1	-3.3	
1,150.0	0.48	117.34	1,150.0	-4.4	1.3	0.17	0.07	19.33	-3.5	-3.0	
1,164.0	0.21	151.54	1,164.0	-4.5	1.4	2.34	-1.93	244.29	-4.7	-0.2	
1,177.0	0.27	236.85	1,177.0	-4.5	1.4	2.52	0.46	656.23	-0.3	4.7	
1,191.0	0.62	260.52	1,191.0	-4.5	1.3	2.77	2.50	169.07	1.9	4.4	
1,204.0	1.95	267.02	1,204.0	-4.6	1.0	10.28	10.23	50.00	2.6	4.0	
1,218.0	2.27	262.26	1,218.0	-4.6	0.5	2.60	2.29	-34.00	2.2	4.1	
1,231.0	2.59	264.26	1,230.9	-4.7	-0.1	2.55	2.46	15.38	2.4	3.8	
1,245.0	2.91	265.82	1,244.9	-4.7	-0.7	2.35	2.29	11.14	2.4	3.6	
1,259.0	2.87	265.29	1,258.9	-4.8	-1.4	0.34	-0.29	-3.79	2.4	3.4	
1,272.0	2.83	264.70	1,271.9	-4.8	-2.1	0.38	-0.31	-4.54	2.4	3.2	

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
1,286.0	2.80	264.07	1,285.9	-4.9	-2.8	0.31	-0.21	-4.50	2.6	3.0
1,299.0	2.76	263.43	1,298.9	-5.0	-3.4	0.39	-0.31	-4.92	2.7	2.8
1,313.0	2.73	262.78	1,312.8	-5.1	-4.1	0.31	-0.21	-4.64	3.0	2.6
1,326.0	3.47	266.36	1,325.8	-5.1	-4.8	5.88	5.69	27.54	3.4	2.1
1,340.0	4.73	265.50	1,339.8	-5.2	-5.8	9.01	9.00	-6.14	3.5	1.9
1,354.0	5.32	264.29	1,353.7	-5.3	-7.0	4.28	4.21	-8.64	3.4	1.6
1,368.0	5.31	264.02	1,367.7	-5.4	-8.3	0.19	-0.07	-1.93	3.3	1.3
1,382.0	5.30	263.75	1,381.6	-5.6	-9.6	0.19	-0.07	-1.93	3.3	1.0
1,395.0	5.29	263.48	1,394.6	-5.7	-10.7	0.21	-0.08	-2.08	3.4	0.6
1,409.0	5.26	263.22	1,408.5	-5.8	-12.0	0.27	-0.21	-1.86	3.5	0.3
1,423.0	5.21	262.97	1,422.4	-6.0	-13.3	0.39	-0.36	-1.79	3.6	0.0
1,437.0	5.12	262.72	1,436.4	-6.2	-14.5	0.66	-0.64	-1.79	3.8	-0.4
1,451.0	4.96	262.53	1,450.3	-6.3	-15.8	1.15	-1.14	-1.36	4.0	-0.7
1,464.0	4.78	262.35	1,463.3	-6.5	-16.9	1.39	-1.38	-1.38	4.2	-1.0
1,478.0	4.58	262.16	1,477.2	-6.6	-18.0	1.43	-1.43	-1.36	4.5	-1.3
1,491.0	4.39	261.95	1,490.2	-6.8	-19.0	1.47	-1.46	-1.62	4.8	-1.6
1,505.0	4.21	261.69	1,504.2	-6.9	-20.0	1.29	-1.29	-1.86	5.2	-1.9
1,518.0	5.38	262.08	1,517.1	-7.1	-21.1	9.00	9.00	3.00	5.4	-2.3
1,532.0	5.67	260.79	1,531.1	-7.3	-22.4	2.25	2.07	-9.21	5.5	-2.5
1,546.0	5.62	260.42	1,545.0	-7.5	-23.8	0.44	-0.36	-2.64	5.6	-2.7
1,559.0	5.60	260.02	1,557.9	-7.7	-25.1	0.34	-0.15	-3.08	5.7	-2.9
1,573.0	5.59	259.60	1,571.9	-7.9	-26.4	0.30	-0.07	-3.00	5.8	-3.2
1,586.0	5.61	259.19	1,584.8	-8.2	-27.6	0.34	0.15	-3.15	5.9	-3.4
1,600.0	5.63	258.81	1,598.7	-8.4	-29.0	0.30	0.14	-2.71	6.0	-3.6
1,613.0	5.67	258.48	1,611.7	-8.7	-30.2	0.40	0.31	-2.54	6.1	-3.8
1,627.0	5.72	258.25	1,625.6	-9.0	-31.6	0.39	0.36	-1.64	6.1	-4.0
1,640.0	5.79	258.14	1,638.5	-9.2	-32.9	0.55	0.54	-0.85	6.2	-4.2



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)	
1,654.0	5.86	258.11	1,652.5	-9.5	-34.3	0.50	0.50	-0.21	6.2	-4.4	
1,667.0	5.94	258.12	1,665.4	-9.8	-35.6	0.62	0.62	0.08	6.2	-4.7	
1,681.0	6.02	258.13	1,679.3	-10.1	-37.0	0.57	0.57	0.07	6.2	-4.9	
1,694.0	6.09	258.12	1,692.2	-10.4	-38.3	0.54	0.54	-0.08	6.1	-5.1	
1,708.0	7.09	258.59	1,706.1	-10.7	-39.9	7.15	7.14	3.36	5.9	-5.4	
1,721.0	8.63	260.46	1,719.0	-11.0	-41.7	12.01	11.85	14.38	5.3	-5.8	
1,735.0	10.25	261.92	1,732.8	-11.4	-43.9	11.70	11.57	10.43	4.3	-6.3	
1,748.0	10.41	261.79	1,745.6	-11.7	-46.2	1.24	1.23	-1.00	3.3	-6.6	
1,762.0	10.44	261.69	1,759.4	-12.1	-48.8	0.25	0.21	-0.71	2.2	-6.9	
1,776.0	10.48	261.57	1,773.2	-12.4	-51.3	0.33	0.29	-0.86	1.1	-7.2	
1,790.0	10.51	261.43	1,786.9	-12.8	-53.8	0.28	0.21	-1.00	0.0	-7.5	
1,803.0	10.54	261.28	1,799.7	-13.2	-56.1	0.31	0.23	-1.15	-1.1	-7.8	
1,817.0	10.57	261.10	1,813.5	-13.6	-58.7	0.32	0.21	-1.29	-2.2	-8.1	
1,831.0	10.60	260.87	1,827.2	-14.0	-61.2	0.37	0.21	-1.64	-3.3	-8.4	
1,844.0	10.63	260.62	1,840.0	-14.4	-63.6	0.42	0.23	-1.92	-4.3	-8.7	
1,858.0	10.66	260.33	1,853.8	-14.8	-66.1	0.44	0.21	-2.07	-5.5	-9.1	
1,871.0	10.69	260.02	1,866.5	-15.2	-68.5	0.50	0.23	-2.38	-6.5	-9.4	
1,885.0	10.72	259.67	1,880.3	-15.7	-71.1	0.51	0.21	-2.50	-7.6	-9.7	
1,898.0	10.75	259.29	1,893.1	-16.1	-73.4	0.59	0.23	-2.92	-8.6	-10.0	
1,912.0	10.79	258.84	1,906.8	-16.6	-76.0	0.67	0.29	-3.21	-9.8	-10.3	
1,925.0	10.83	258.30	1,919.6	-17.1	-78.4	0.84	0.31	-4.15	-10.8	-10.6	
1,939.0	10.87	257.72	1,933.3	-17.6	-81.0	0.83	0.29	-4.14	-11.9	-11.0	
1,952.0	10.91	257.12	1,946.1	-18.2	-83.4	0.92	0.31	-4.62	-12.9	-11.3	
1,966.0	10.95	256.53	1,959.9	-18.8	-86.0	0.85	0.29	-4.21	-14.0	-11.6	
1,979.0	11.00	255.98	1,972.6	-19.4	-88.4	0.89	0.38	-4.23	-15.0	-12.0	
1,993.0	10.80	250.08	1,986.4	-20.1	-90.9	8.09	-1.43	-42.14	-14.9	-13.6	
2,006.0	10.82	248.63	1,999.1	-21.0	-93.2	2.10	0.15	-11.15	-15.6	-14.0	



Final PVA

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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2,020.0	10.88	248.24	2,012.9	-22.0	-95.6	0.68	0.43	-2.79	-16.7	-14.1
2,033.0	10.94	247.89	2,025.6	-22.9	-97.9	0.69	0.46	-2.69	-17.8	-14.2
2,047.0	11.00	247.59	2,039.4	-23.9	-100.4	0.59	0.43	-2.14	-18.9	-14.2
2,061.0	11.06	247.33	2,053.1	-24.9	-102.8	0.56	0.43	-1.86	-20.1	-14.3
2,075.0	11.12	247.11	2,066.9	-26.0	-105.3	0.52	0.43	-1.57	-21.2	-14.3
2,088.0	11.19	246.94	2,079.6	-26.9	-107.6	0.59	0.54	-1.31	-22.4	-14.3
2,102.0	11.26	246.82	2,093.4	-28.0	-110.2	0.53	0.50	-0.86	-23.6	-14.3
2,116.0	11.34	246.78	2,107.1	-29.1	-112.7	0.57	0.57	-0.29	-24.9	-14.3
2,129.0	11.42	246.80	2,119.8	-30.1	-115.0	0.62	0.62	0.15	-26.1	-14.2
2,143.0	11.50	246.85	2,133.6	-31.2	-117.6	0.58	0.57	0.36	-27.5	-14.2
2,157.0	11.57	246.92	2,147.3	-32.3	-120.2	0.51	0.50	0.50	-28.9	-14.1
2,171.0	11.63	247.01	2,161.0	-33.4	-122.8	0.45	0.43	0.64	-30.2	-14.0
2,184.0	11.67	247.13	2,173.7	-34.4	-125.2	0.36	0.31	0.92	-31.6	-13.9
2,198.0	11.68	247.25	2,187.4	-35.5	-127.8	0.19	0.07	0.86	-33.0	-13.8
2,212.0	11.63	247.39	2,201.1	-36.6	-130.4	0.41	-0.36	1.00	-34.4	-13.6
2,225.0	11.56	247.53	2,213.9	-37.6	-132.8	0.58	-0.54	1.08	-35.7	-13.5
2,239.0	11.47	247.67	2,227.6	-38.7	-135.4	0.67	-0.64	1.00	-37.1	-13.4
2,252.0	11.38	247.78	2,240.3	-39.6	-137.8	0.71	-0.69	0.85	-38.3	-13.3
2,266.0	11.28	247.87	2,254.1	-40.7	-140.3	0.73	-0.71	0.64	-39.6	-13.2
2,279.0	10.15	248.07	2,266.8	-41.6	-142.6	8.70	-8.69	1.54	-40.8	-13.0
2,293.0	8.99	248.20	2,280.6	-42.5	-144.7	8.29	-8.29	0.93	-41.7	-12.9
2,307.0	8.89	248.06	2,294.5	-43.3	-146.7	0.73	-0.71	-1.00	-42.4	-13.0
2,320.0	8.80	247.87	2,307.3	-44.0	-148.6	0.73	-0.69	-1.46	-43.0	-13.1
2,334.0	8.70	247.64	2,321.2	-44.8	-150.6	0.76	-0.71	-1.64	-43.6	-13.2
2,348.0	8.61	247.37	2,335.0	-45.6	-152.5	0.71	-0.64	-1.93	-44.2	-13.4
2,362.0	8.52	247.07	2,348.8	-46.4	-154.4	0.72	-0.64	-2.14	-44.7	-13.6
2,375.0	8.44	246.75	2,361.7	-47.2	-156.2	0.71	-0.62	-2.46	-45.2	-13.8



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
2,389.0	8.36	246.41	2,375.5	-48.0	-158.1	0.67	-0.57	-2.43	-45.7	-14.0
2,403.0	8.31	246.06	2,389.4	-48.8	-159.9	0.51	-0.36	-2.50	-46.2	-14.2
2,416.0	8.26	245.69	2,402.3	-49.6	-161.6	0.56	-0.38	-2.85	-46.7	-14.4
2,430.0	8.22	245.32	2,416.1	-50.4	-163.5	0.47	-0.29	-2.64	-47.1	-14.6
2,443.0	8.18	244.96	2,429.0	-51.2	-165.1	0.50	-0.31	-2.77	-47.5	-14.8
2,457.0	8.14	244.62	2,442.8	-52.0	-166.9	0.45	-0.29	-2.43	-48.0	-15.0
2,470.0	8.11	244.31	2,455.7	-52.8	-168.6	0.41	-0.23	-2.38	-48.4	-15.2
2,484.0	8.06	244.07	2,469.6	-53.7	-170.4	0.43	-0.36	-1.71	-48.8	-15.3
2,498.0	8.02	243.94	2,483.4	-54.5	-172.1	0.31	-0.29	-0.93	-49.3	-15.2
2,511.0	7.96	243.87	2,496.3	-55.3	-173.8	0.47	-0.46	-0.54	-49.7	-15.2
2,525.0	7.90	243.85	2,510.2	-56.2	-175.5	0.43	-0.43	-0.14	-50.2	-15.1
2,538.0	7.85	243.87	2,523.1	-57.0	-177.1	0.39	-0.38	0.15	-50.6	-14.9
2,552.0	7.78	243.93	2,536.9	-57.8	-178.8	0.50	-0.50	0.43	-51.1	-14.7
2,565.0	7.72	244.03	2,549.8	-58.6	-180.4	0.47	-0.46	0.77	-51.5	-14.5
2,579.0	7.66	244.18	2,563.7	-59.4	-182.1	0.45	-0.43	1.07	-52.0	-14.3
2,593.0	7.59	244.38	2,577.6	-60.2	-183.7	0.53	-0.50	1.43	-52.4	-14.0
2,606.0	7.53	244.62	2,590.4	-60.9	-185.3	0.52	-0.46	1.85	-52.9	-13.7
2,620.0	7.46	244.89	2,604.3	-61.7	-186.9	0.56	-0.50	1.93	-53.3	-13.3
2,634.0	7.40	245.16	2,618.2	-62.5	-188.6	0.50	-0.43	1.93	-53.7	-12.9
2,648.0	7.33	245.42	2,632.1	-63.2	-190.2	0.55	-0.50	1.86	-54.1	-12.6
2,661.0	7.26	245.67	2,645.0	-63.9	-191.7	0.59	-0.54	1.92	-54.5	-12.3
2,675.0	7.19	245.86	2,658.9	-64.6	-193.3	0.53	-0.50	1.36	-54.8	-12.0
2,689.0	7.11	245.95	2,672.8	-65.4	-194.9	0.58	-0.57	0.64	-55.1	-11.9
2,702.0	7.04	245.97	2,685.7	-66.0	-196.4	0.54	-0.54	0.15	-55.4	-11.8
2,716.0	6.96	245.95	2,699.6	-66.7	-197.9	0.57	-0.57	-0.14	-55.6	-11.7
2,730.0	6.88	245.88	2,713.5	-67.4	-199.5	0.57	-0.57	-0.50	-55.8	-11.7
2,744.0	6.80	245.79	2,727.4	-68.1	-201.0	0.58	-0.57	-0.64	-56.0	-11.7



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)	
2,757.0	6.71	245.64	2,740.3	-68.7	-202.4	0.71	-0.69	-1.15	-56.2	-11.8	
2,771.0	6.63	245.45	2,754.2	-69.4	-203.9	0.59	-0.57	-1.36	-56.3	-11.9	
2,785.0	6.54	245.19	2,768.1	-70.0	-205.3	0.68	-0.64	-1.86	-56.4	-12.0	
2,798.0	6.45	244.88	2,781.0	-70.7	-206.6	0.74	-0.69	-2.38	-56.4	-12.3	
2,812.0	6.35	244.54	2,794.9	-71.3	-208.1	0.76	-0.71	-2.43	-56.5	-12.5	
2,826.0	6.25	244.18	2,808.8	-72.0	-209.4	0.77	-0.71	-2.57	-56.5	-12.7	
2,840.0	6.15	243.82	2,822.7	-72.7	-210.8	0.77	-0.71	-2.57	-56.4	-12.9	
2,853.0	6.03	243.45	2,835.7	-73.3	-212.0	0.97	-0.92	-2.85	-56.4	-13.2	
2,867.0	5.89	243.11	2,849.6	-73.9	-213.3	1.03	-1.00	-2.43	-56.3	-13.4	
2,880.0	5.73	242.89	2,862.5	-74.5	-214.5	1.24	-1.23	-1.69	-56.2	-13.4	
2,894.0	5.56	242.72	2,876.5	-75.2	-215.7	1.22	-1.21	-1.21	-56.1	-13.4	
2,907.0	5.38	242.58	2,889.4	-75.7	-216.8	1.39	-1.38	-1.08	-55.9	-13.4	
2,921.0	5.21	242.47	2,903.3	-76.3	-218.0	1.22	-1.21	-0.79	-55.8	-13.4	
2,934.0	5.04	242.42	2,916.3	-76.9	-219.0	1.31	-1.31	-0.38	-55.6	-13.3	
2,948.0	4.88	242.42	2,930.2	-77.4	-220.1	1.14	-1.14	0.00	-55.3	-13.1	
2,961.0	4.75	242.52	2,943.2	-77.9	-221.1	1.00	-1.00	0.77	-55.1	-12.9	
2,975.0	4.66	242.76	2,957.1	-78.5	-222.1	0.66	-0.64	1.71	-54.8	-12.5	
2,988.0	4.60	243.09	2,970.1	-78.9	-223.0	0.50	-0.46	2.54	-54.6	-12.0	
3,002.0	4.55	243.49	2,984.1	-79.4	-224.0	0.42	-0.36	2.86	-54.3	-11.5	
3,015.0	4.51	243.94	2,997.0	-79.9	-224.9	0.41	-0.31	3.46	-54.1	-10.9	
3,029.0	4.46	244.45	3,011.0	-80.4	-225.9	0.46	-0.36	3.64	-53.8	-10.3	
3,042.0	4.52	247.11	3,023.9	-80.8	-226.8	1.67	0.46	20.46	-53.9	-7.8	
3,056.0	5.50	259.21	3,037.9	-81.1	-228.0	10.26	7.00	86.43	-54.1	3.5	
3,070.0	6.89	262.78	3,051.8	-81.3	-229.5	10.30	9.93	25.50	-53.9	6.5	
3,083.0	6.99	263.67	3,064.7	-81.5	-231.1	1.13	0.77	6.85	-54.0	7.0	
3,097.0	6.85	264.37	3,078.6	-81.7	-232.7	1.17	-1.00	5.00	-54.2	7.3	
3,110.0	6.69	265.15	3,091.5	-81.9	-234.3	1.42	-1.23	6.00	-54.3	7.7	

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
3,124.0	6.51	266.01	3,105.4	-82.0	-235.9	1.47	-1.29	6.14	-54.4	8.1
3,137.0	6.31	266.91	3,118.3	-82.1	-237.3	1.72	-1.54	6.92	-54.5	8.5
3,151.0	6.09	267.86	3,132.3	-82.1	-238.8	1.73	-1.57	6.79	-54.4	8.9
3,165.0	5.80	268.64	3,146.2	-82.2	-240.3	2.15	-2.07	5.57	-54.4	9.2
3,178.0	5.49	269.38	3,159.1	-82.2	-241.6	2.45	-2.38	5.69	-54.3	9.4
3,192.0	5.17	270.06	3,173.1	-82.2	-242.9	2.33	-2.29	4.86	-54.1	9.6
3,206.0	4.86	270.63	3,187.0	-82.2	-244.1	2.24	-2.21	4.07	-53.9	9.6
3,220.0	4.57	270.96	3,201.0	-82.2	-245.2	2.08	-2.07	2.36	-53.6	9.3
3,233.0	5.00	260.24	3,213.9	-82.3	-246.3	7.62	3.31	-82.46	-54.1	-1.1
3,247.0	6.02	250.96	3,227.8	-82.6	-247.6	9.65	7.29	-66.29	-53.1	-9.9
3,261.0	5.85	250.02	3,241.8	-83.1	-249.0	1.40	-1.21	-6.71	-52.9	-10.8
3,274.0	5.70	248.73	3,254.7	-83.6	-250.2	1.53	-1.15	-9.92	-52.6	-12.0
3,288.0	5.56	247.21	3,268.6	-84.1	-251.5	1.46	-1.00	-10.86	-52.2	-13.4
3,301.0	5.45	245.53	3,281.6	-84.6	-252.6	1.50	-0.85	-12.92	-51.7	-14.8
3,315.0	5.36	243.80	3,295.5	-85.1	-253.8	1.33	-0.64	-12.36	-51.1	-16.3
3,328.0	5.28	242.11	3,308.5	-85.7	-254.9	1.35	-0.62	-13.00	-50.4	-17.6
3,342.0	5.22	240.59	3,322.4	-86.3	-256.0	1.08	-0.43	-10.86	-49.8	-18.8
3,356.0	5.15	239.56	3,336.3	-86.9	-257.1	0.83	-0.50	-7.36	-49.3	-19.4
3,369.0	5.10	238.75	3,349.3	-87.5	-258.1	0.68	-0.38	-6.23	-48.8	-19.9
3,383.0	5.06	238.08	3,363.2	-88.2	-259.1	0.51	-0.29	-4.79	-48.4	-20.2
3,397.0	5.03	237.50	3,377.2	-88.8	-260.2	0.42	-0.21	-4.14	-48.0	-20.4
3,411.0	5.00	236.96	3,391.1	-89.5	-261.2	0.40	-0.21	-3.86	-47.6	-20.5
3,424.0	4.96	236.45	3,404.1	-90.1	-262.2	0.46	-0.31	-3.92	-47.2	-20.7
3,438.0	5.05	236.21	3,418.0	-90.8	-263.2	0.66	0.64	-1.71	-46.9	-20.5
3,452.0	6.66	238.94	3,431.9	-91.6	-264.4	11.67	11.50	19.50	-47.8	-18.0
3,465.0	8.31	240.61	3,444.8	-92.4	-265.8	12.80	12.69	12.85	-48.7	-16.4
3,479.0	9.49	240.06	3,458.7	-93.5	-267.7	8.45	8.43	-3.93	-49.2	-16.7

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
3,492.0	9.46	239.54	3,471.5	-94.6	-269.6	0.70	-0.23	-4.00	-49.9	-16.9
3,506.0	9.43	238.98	3,485.3	-95.7	-271.5	0.69	-0.21	-4.00	-50.6	-17.1
3,519.0	9.40	238.44	3,498.1	-96.8	-273.4	0.72	-0.23	-4.15	-51.2	-17.4
3,533.0	9.34	237.96	3,511.9	-98.0	-275.3	0.70	-0.43	-3.43	-51.9	-17.5
3,547.0	9.24	237.64	3,525.8	-99.2	-277.2	0.80	-0.71	-2.29	-52.7	-17.5
3,560.0	9.12	237.41	3,538.6	-100.3	-279.0	0.97	-0.92	-1.77	-53.3	-17.5
3,574.0	8.99	237.24	3,552.4	-101.5	-280.8	0.95	-0.93	-1.21	-54.1	-17.3
3,588.0	8.86	237.12	3,566.2	-102.7	-282.6	0.94	-0.93	-0.86	-54.8	-17.2
3,602.0	8.73	237.03	3,580.1	-103.9	-284.4	0.93	-0.93	-0.64	-55.5	-16.9
3,615.0	8.60	236.97	3,592.9	-104.9	-286.1	1.00	-1.00	-0.46	-56.1	-16.7
3,629.0	8.49	236.91	3,606.8	-106.1	-287.8	0.79	-0.79	-0.43	-56.7	-16.5
3,643.0	8.42	236.85	3,620.6	-107.2	-289.6	0.50	-0.50	-0.43	-57.3	-16.2
3,656.0	8.36	236.79	3,633.5	-108.2	-291.1	0.47	-0.46	-0.46	-57.9	-16.0
3,670.0	8.31	236.72	3,647.3	-109.4	-292.8	0.36	-0.36	-0.50	-58.5	-15.8
3,683.0	8.27	236.65	3,660.2	-110.4	-294.4	0.32	-0.31	-0.54	-59.0	-15.5
3,697.0	8.22	236.57	3,674.1	-111.5	-296.1	0.37	-0.36	-0.57	-59.6	-15.3
3,710.0	8.17	236.46	3,686.9	-112.5	-297.6	0.40	-0.38	-0.85	-60.1	-15.1
3,724.0	8.11	236.31	3,700.8	-113.6	-299.3	0.45	-0.43	-1.07	-60.6	-15.0
3,738.0	8.03	236.06	3,714.6	-114.7	-300.9	0.62	-0.57	-1.79	-61.1	-14.9
3,751.0	7.93	235.78	3,727.5	-115.7	-302.4	0.83	-0.77	-2.15	-61.5	-14.9
3,765.0	7.81	235.51	3,741.4	-116.8	-304.0	0.90	-0.86	-1.93	-61.9	-14.8
3,779.0	7.68	235.30	3,755.3	-117.9	-305.5	0.95	-0.93	-1.50	-62.3	-14.7
3,793.0	7.53	235.21	3,769.1	-118.9	-307.1	1.07	-1.07	-0.64	-62.7	-14.5
3,806.0	7.76	245.69	3,782.0	-119.8	-308.6	10.85	1.77	80.62	-64.7	-2.7
3,820.0	7.70	248.45	3,795.9	-120.5	-310.3	2.69	-0.43	19.71	-65.2	0.5
3,834.0	7.45	249.12	3,809.8	-121.2	-312.0	1.89	-1.79	4.79	-65.5	1.3
3,847.0	7.16	250.06	3,822.7	-121.7	-313.6	2.41	-2.23	7.23	-65.8	2.3

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
3,861.0	6.86	251.24	3,836.6	-122.3	-315.2	2.38	-2.14	8.43	-66.0	3.6
3,875.0	6.55	252.64	3,850.5	-122.8	-316.7	2.50	-2.21	10.00	-66.1	5.2
3,889.0	6.26	254.26	3,864.4	-123.3	-318.2	2.44	-2.07	11.57	-66.0	6.9
3,902.0	5.97	256.08	3,877.3	-123.6	-319.6	2.68	-2.23	14.00	-65.8	8.8
3,916.0	5.71	258.07	3,891.2	-123.9	-321.0	2.35	-1.86	14.21	-65.4	10.9
3,930.0	5.46	259.69	3,905.2	-124.2	-322.3	2.11	-1.79	11.57	-65.0	12.5
3,943.0	5.23	261.41	3,918.1	-124.4	-323.5	2.16	-1.77	13.23	-64.5	14.1
3,957.0	5.02	263.24	3,932.1	-124.6	-324.7	1.90	-1.50	13.07	-63.8	15.8
3,970.0	4.83	265.16	3,945.0	-124.7	-325.8	1.93	-1.46	14.77	-63.1	17.6
3,984.0	4.65	267.16	3,959.0	-124.8	-327.0	1.75	-1.29	14.29	-62.2	19.3
3,997.0	4.49	269.21	3,971.9	-124.8	-328.0	1.76	-1.23	15.77	-61.2	21.1
4,011.0	5.08	263.40	3,985.9	-124.9	-329.2	5.45	4.21	-41.50	-62.8	14.4
4,025.0	6.48	262.04	3,999.8	-125.1	-330.6	10.05	10.00	-9.71	-63.1	12.6
4,038.0	8.20	262.68	4,012.7	-125.3	-332.2	13.25	13.23	4.92	-63.3	13.0
4,052.0	8.22	263.96	4,026.5	-125.5	-334.2	1.31	0.14	9.14	-63.6	14.0
4,066.0	8.13	265.41	4,040.4	-125.7	-336.2	1.61	-0.64	10.36	-63.8	15.2
4,080.0	8.05	266.89	4,054.3	-125.8	-338.2	1.59	-0.57	10.57	-64.0	16.4
4,093.0	7.96	268.28	4,067.1	-125.9	-340.0	1.64	-0.69	10.69	-64.1	17.5
4,107.0	7.86	269.45	4,081.0	-125.9	-341.9	1.35	-0.71	8.36	-64.3	18.3
4,121.0	7.73	270.13	4,094.9	-125.9	-343.8	1.14	-0.93	4.86	-64.6	18.6
4,134.0	7.57	270.51	4,107.8	-125.9	-345.5	1.29	-1.23	2.92	-65.0	18.5
4,148.0	7.41	270.71	4,121.6	-125.9	-347.4	1.16	-1.14	1.43	-65.4	18.2
4,162.0	7.24	270.77	4,135.5	-125.9	-349.1	1.22	-1.21	0.43	-65.8	17.7
4,176.0	7.08	270.74	4,149.4	-125.9	-350.9	1.14	-1.14	-0.21	-66.2	17.2
4,189.0	6.93	270.69	4,162.3	-125.9	-352.5	1.15	-1.15	-0.38	-66.5	16.6
4,203.0	6.79	270.66	4,176.2	-125.8	-354.1	1.00	-1.00	-0.21	-66.8	16.0
4,217.0	6.67	270.81	4,190.1	-125.8	-355.8	0.87	-0.86	1.07	-67.1	15.6

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
4,230.0	6.58	271.02	4,203.0	-125.8	-357.3	0.72	-0.69	1.62	-67.3	15.4
4,244.0	6.49	271.23	4,216.9	-125.8	-358.9	0.67	-0.64	1.50	-67.4	15.1
4,257.0	6.40	271.42	4,229.9	-125.7	-360.3	0.71	-0.69	1.46	-67.6	14.8
4,271.0	6.31	271.56	4,243.8	-125.7	-361.9	0.65	-0.64	1.00	-67.8	14.4
4,284.0	6.22	271.62	4,256.7	-125.6	-363.3	0.69	-0.69	0.46	-67.9	13.9
4,298.0	6.11	271.55	4,270.6	-125.6	-364.8	0.79	-0.79	-0.50	-68.1	13.3
4,312.0	6.44	268.65	4,284.5	-125.6	-366.3	3.27	2.36	-20.71	-68.8	9.3
4,325.0	7.74	262.60	4,297.4	-125.7	-367.9	11.52	10.00	-46.54	-69.7	1.7
4,339.0	8.57	259.94	4,311.3	-126.0	-369.9	6.51	5.93	-19.00	-70.2	-1.9
4,352.0	8.39	259.50	4,324.2	-126.4	-371.8	1.47	-1.38	-3.38	-70.8	-2.7
4,366.0	8.19	258.96	4,338.0	-126.8	-373.8	1.53	-1.43	-3.86	-71.4	-3.6
4,379.0	7.95	258.33	4,350.9	-127.1	-375.5	1.97	-1.85	-4.85	-71.8	-4.6
4,393.0	7.66	257.59	4,364.7	-127.5	-377.4	2.19	-2.07	-5.29	-72.2	-5.8
4,407.0	7.29	256.93	4,378.6	-127.9	-379.2	2.71	-2.64	-4.71	-72.5	-6.8
4,420.0	6.85	256.16	4,391.5	-128.3	-380.7	3.46	-3.38	-5.92	-72.7	-8.0
4,434.0	6.39	255.25	4,405.4	-128.7	-382.3	3.37	-3.29	-6.50	-72.7	-9.3
4,447.0	5.91	254.12	4,418.4	-129.0	-383.6	3.81	-3.69	-8.69	-72.5	-10.8
4,461.0	5.41	252.70	4,432.3	-129.4	-385.0	3.71	-3.57	-10.14	-72.2	-12.7
4,474.0	4.91	250.86	4,445.2	-129.8	-386.1	4.05	-3.85	-14.15	-71.5	-15.1
4,488.0	4.41	248.40	4,459.2	-130.2	-387.2	3.85	-3.57	-17.57	-70.5	-18.2
4,502.0	3.89	246.11	4,473.2	-130.6	-388.1	3.90	-3.71	-16.36	-69.3	-20.9
4,515.0	3.39	242.96	4,486.1	-130.9	-388.8	4.14	-3.85	-24.23	-67.5	-24.5
4,529.0	2.90	238.65	4,500.1	-131.3	-389.5	3.88	-3.50	-30.79	-64.8	-29.3
4,542.0	2.46	232.71	4,513.1	-131.7	-390.0	4.00	-3.38	-45.69	-60.7	-35.5
4,556.0	2.09	224.65	4,527.1	-132.0	-390.4	3.49	-2.64	-57.57	-54.4	-43.1
4,569.0	1.82	214.33	4,540.1	-132.4	-390.7	3.40	-2.08	-79.38	-45.1	-51.4
4,583.0	1.67	202.79	4,554.1	-132.7	-390.9	2.72	-1.07	-82.43	-33.3	-58.4

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)	
4,597.0	1.46	195.72	4,568.1	-133.1	-391.0	2.04	-1.50	-50.50	-25.4	-60.9	
4,610.0	1.33	188.33	4,581.1	-133.4	-391.1	1.71	-1.00	-56.85	-17.0	-62.5	
4,624.0	1.48	180.50	4,595.1	-133.7	-391.1	1.74	1.07	-55.93	-8.1	-62.9	
4,637.0	1.65	175.07	4,608.1	-134.1	-391.1	1.73	1.31	-41.77	-2.2	-62.1	
4,651.0	1.84	170.72	4,622.0	-134.5	-391.1	1.65	1.36	-31.07	2.4	-60.6	
4,664.0	2.04	167.19	4,635.0	-134.9	-391.0	1.79	1.54	-27.15	5.9	-59.0	
4,678.0	2.25	164.28	4,649.0	-135.5	-390.8	1.69	1.50	-20.79	8.5	-57.2	
4,692.0	2.44	161.42	4,663.0	-136.0	-390.7	1.59	1.36	-20.43	10.8	-55.3	
4,705.0	2.70	158.86	4,676.0	-136.6	-390.5	2.19	2.00	-19.69	12.6	-53.4	
4,719.0	2.99	156.62	4,690.0	-137.2	-390.2	2.22	2.07	-16.00	13.9	-51.4	
4,733.0	3.32	154.66	4,704.0	-137.9	-389.9	2.48	2.36	-14.00	14.8	-49.5	
4,747.0	3.66	152.85	4,717.9	-138.7	-389.5	2.55	2.43	-12.93	15.3	-47.6	
4,760.0	4.00	151.08	4,730.9	-139.4	-389.1	2.77	2.62	-13.62	15.7	-45.8	
4,774.0	4.33	149.20	4,744.9	-140.3	-388.6	2.55	2.36	-13.43	15.9	-43.8	
4,788.0	4.64	147.06	4,758.8	-141.2	-388.0	2.52	2.21	-15.29	16.1	-41.8	
4,801.0	4.94	144.95	4,771.8	-142.1	-387.4	2.68	2.31	-16.23	16.2	-39.9	
4,815.0	5.23	143.00	4,785.7	-143.1	-386.7	2.41	2.07	-13.93	15.9	-37.9	
4,828.0	5.52	141.26	4,798.7	-144.1	-385.9	2.56	2.23	-13.38	15.4	-36.1	
4,842.0	5.81	139.79	4,812.6	-145.2	-385.1	2.32	2.07	-10.50	14.4	-34.4	
4,855.0	6.09	138.64	4,825.5	-146.2	-384.2	2.34	2.15	-8.85	13.3	-32.8	
4,869.0	6.36	137.87	4,839.5	-147.3	-383.2	2.02	1.93	-5.50	11.7	-31.3	
4,883.0	6.61	137.37	4,853.4	-148.5	-382.1	1.83	1.79	-3.57	9.8	-29.8	
4,896.0	6.85	137.19	4,866.3	-149.6	-381.1	1.85	1.85	-1.38	7.9	-28.5	
4,910.0	7.06	137.21	4,880.2	-150.8	-379.9	1.50	1.50	0.14	5.6	-27.1	
4,923.0	7.24	137.39	4,893.1	-152.0	-378.8	1.40	1.38	1.38	3.5	-25.9	
4,937.0	7.38	137.67	4,907.0	-153.4	-377.6	1.03	1.00	2.00	1.1	-24.5	
4,950.0	7.62	143.26	4,919.8	-154.7	-376.5	5.91	1.85	43.00	-3.3	-23.1	



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
4,964.0	8.05	153.33	4,933.7	-156.3	-375.5	10.26	3.07	71.93	-9.3	-20.6
4,978.0	8.53	161.28	4,947.6	-158.1	-374.8	8.87	3.43	56.79	-13.9	-17.5
4,991.0	8.74	163.39	4,960.4	-160.0	-374.2	2.92	1.62	16.23	-16.4	-15.6
5,005.0	8.48	164.56	4,974.3	-162.0	-373.6	2.24	-1.86	8.36	-18.6	-13.9
5,018.0	8.19	165.94	4,987.1	-163.8	-373.1	2.71	-2.23	10.62	-20.6	-12.1
5,032.0	7.91	167.39	5,001.0	-165.7	-372.7	2.47	-2.00	10.36	-22.7	-10.1
5,045.0	7.66	169.96	5,013.9	-167.5	-372.3	3.30	-1.92	19.77	-24.6	-7.7
5,059.0	7.40	177.64	5,027.7	-169.3	-372.1	7.42	-1.86	54.86	-26.8	-2.8
5,073.0	6.55	189.92	5,041.6	-171.0	-372.2	12.23	-6.07	87.71	-27.7	4.4
5,086.0	6.19	194.54	5,054.6	-172.4	-372.5	4.82	-2.77	35.54	-27.9	7.7
5,100.0	6.04	195.39	5,068.5	-173.8	-372.9	1.25	-1.07	6.07	-28.4	9.3
5,114.0	5.90	196.26	5,082.4	-175.2	-373.3	1.19	-1.00	6.21	-28.8	10.9
5,128.0	5.76	197.19	5,096.3	-176.6	-373.7	1.21	-1.00	6.64	-29.2	12.6
5,141.0	5.63	198.18	5,109.3	-177.8	-374.1	1.25	-1.00	7.62	-29.4	14.1
5,155.0	5.23	198.57	5,123.2	-179.1	-374.5	2.87	-2.86	2.79	-29.7	15.5
5,169.0	5.10	199.80	5,137.2	-180.3	-374.9	1.22	-0.93	8.79	-29.6	17.2
5,182.0	4.62	219.49	5,150.1	-181.2	-375.5	13.28	-3.69	151.46	-22.0	27.0
5,196.0	4.65	233.23	5,164.1	-182.0	-376.3	7.91	0.21	98.14	-14.7	32.0
5,210.0	4.56	235.11	5,178.0	-182.6	-377.2	1.26	-0.64	13.43	-13.3	32.8
5,224.0	4.49	237.14	5,192.0	-183.3	-378.1	1.25	-0.50	14.50	-11.8	33.6
5,237.0	4.42	239.15	5,204.9	-183.8	-379.0	1.32	-0.54	15.46	-10.3	34.2
5,251.0	4.50	241.48	5,218.9	-184.3	-379.9	1.41	0.57	16.64	-8.5	34.9
5,265.0	5.50	245.22	5,232.8	-184.9	-381.0	7.51	7.14	26.71	-6.0	35.5
5,278.0	6.08	251.15	5,245.8	-185.4	-382.2	6.40	4.46	45.62	-2.3	35.9
5,292.0	7.20	257.46	5,259.7	-185.8	-383.8	9.54	8.00	45.07	1.5	35.8
5,306.0	7.17	257.95	5,273.6	-186.2	-385.5	0.49	-0.21	3.50	1.5	35.6
5,320.0	7.14	258.39	5,287.5	-186.5	-387.2	0.45	-0.21	3.14	1.4	35.3



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
5,333.0	7.11	258.75	5,300.4	-186.8	-388.8	0.41	-0.23	2.77	1.4	35.1
5,347.0	7.09	258.99	5,314.2	-187.2	-390.5	0.26	-0.14	1.71	1.2	34.8
5,361.0	7.08	259.05	5,328.1	-187.5	-392.2	0.09	-0.07	0.43	1.0	34.6
5,374.0	7.07	258.98	5,341.0	-187.8	-393.7	0.10	-0.08	-0.54	0.7	34.3
5,388.0	7.07	258.80	5,354.9	-188.1	-395.4	0.16	0.00	-1.29	0.3	34.1
5,402.0	7.08	258.52	5,368.8	-188.5	-397.1	0.26	0.07	-2.00	-0.2	33.8
5,416.0	7.09	258.14	5,382.7	-188.8	-398.8	0.34	0.07	-2.71	-0.7	33.6
5,429.0	7.10	257.64	5,395.6	-189.2	-400.4	0.48	0.08	-3.85	-1.2	33.4
5,443.0	7.13	257.00	5,409.5	-189.5	-402.1	0.61	0.21	-4.57	-1.9	33.2
5,457.0	7.16	256.12	5,423.4	-190.0	-403.8	0.81	0.21	-6.29	-2.7	32.9
5,470.0	7.19	255.13	5,436.3	-190.4	-405.3	0.98	0.23	-7.62	-3.5	32.7
5,484.0	7.23	254.11	5,450.2	-190.8	-407.0	0.96	0.29	-7.29	-4.4	32.5
5,498.0	7.27	253.15	5,464.1	-191.3	-408.7	0.91	0.29	-6.86	-5.3	32.3
5,512.0	7.31	252.32	5,478.0	-191.8	-410.4	0.80	0.29	-5.93	-6.0	32.1
5,525.0	7.23	253.46	5,490.9	-192.3	-412.0	1.27	-0.62	8.77	-5.7	32.2
5,539.0	7.05	256.92	5,504.8	-192.8	-413.7	3.33	-1.29	24.71	-4.0	32.3
5,553.0	7.05	256.95	5,518.7	-193.2	-415.4	0.03	0.00	0.21	-4.3	32.1
5,566.0	7.24	261.90	5,531.5	-193.5	-416.9	4.95	1.46	38.08	-1.8	32.1
5,580.0	7.79	270.23	5,545.4	-193.6	-418.8	8.71	3.93	59.50	2.3	31.6
5,593.0	8.09	273.72	5,558.3	-193.5	-420.6	4.37	2.31	26.85	3.7	30.9
5,607.0	8.09	274.18	5,572.2	-193.4	-422.5	0.46	0.00	3.29	3.3	30.3
5,620.0	8.09	274.62	5,585.0	-193.2	-424.4	0.48	0.00	3.38	2.9	29.7
5,634.0	8.09	274.94	5,598.9	-193.1	-426.3	0.32	0.00	2.29	2.4	29.0
5,648.0	8.08	274.99	5,612.8	-192.9	-428.3	0.09	-0.07	0.36	1.8	28.4
5,661.0	8.08	274.87	5,625.6	-192.7	-430.1	0.13	0.00	-0.92	1.1	27.8
5,675.0	8.07	274.64	5,639.5	-192.6	-432.1	0.24	-0.07	-1.64	0.3	27.1
5,689.0	8.05	274.36	5,653.4	-192.4	-434.0	0.31	-0.14	-2.00	-0.5	26.5



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
5,703.0	8.03	274.06	5,667.2	-192.3	-436.0	0.33	-0.14	-2.14	-1.2	25.9
5,716.0	8.00	273.79	5,680.1	-192.2	-437.8	0.37	-0.23	-2.08	-1.9	25.3
5,730.0	7.96	273.60	5,694.0	-192.0	-439.7	0.34	-0.29	-1.36	-2.6	24.7
5,744.0	7.90	273.58	5,707.8	-191.9	-441.6	0.43	-0.43	-0.14	-3.2	24.1
5,757.0	7.82	273.64	5,720.7	-191.8	-443.4	0.62	-0.62	0.46	-3.8	23.5
5,771.0	7.75	273.73	5,734.6	-191.7	-445.3	0.51	-0.50	0.64	-4.3	22.9
5,785.0	7.67	273.80	5,748.4	-191.6	-447.2	0.58	-0.57	0.50	-4.8	22.3
5,799.0	7.61	273.79	5,762.3	-191.4	-449.0	0.43	-0.43	-0.07	-5.3	21.7
5,812.0	7.56	273.63	5,775.2	-191.3	-450.8	0.42	-0.38	-1.23	-5.9	21.1
5,826.0	7.55	273.25	5,789.1	-191.2	-452.6	0.36	-0.07	-2.71	-6.5	20.4
5,840.0	7.58	273.06	5,803.0	-191.1	-454.4	0.28	0.21	-1.36	-7.1	19.8
5,853.0	7.40	279.67	5,815.8	-190.9	-456.1	6.77	-1.38	50.85	-5.3	19.9
5,867.0	7.14	279.71	5,829.7	-190.6	-457.9	1.86	-1.86	0.29	-5.8	19.2
5,881.0	7.25	278.32	5,843.6	-190.4	-459.6	1.47	0.79	-9.93	-6.8	18.3
5,895.0	7.38	276.91	5,857.5	-190.1	-461.4	1.58	0.93	-10.07	-7.7	17.4
5,908.0	7.50	275.61	5,870.4	-189.9	-463.0	1.59	0.92	-10.00	-8.6	16.6
5,922.0	7.59	274.54	5,884.3	-189.8	-464.9	1.19	0.64	-7.64	-9.4	15.8
5,936.0	7.60	273.86	5,898.2	-189.6	-466.7	0.65	0.07	-4.86	-10.1	15.1
5,949.0	7.57	273.44	5,911.0	-189.5	-468.4	0.48	-0.23	-3.23	-10.7	14.4
5,963.0	7.52	273.19	5,924.9	-189.4	-470.3	0.43	-0.36	-1.79	-11.2	13.8
5,977.0	7.46	273.03	5,938.8	-189.3	-472.1	0.45	-0.43	-1.14	-11.8	13.1
5,991.0	7.40	272.89	5,952.7	-189.2	-473.9	0.45	-0.43	-1.00	-12.3	12.5
6,004.0	7.35	272.74	5,965.6	-189.1	-475.5	0.41	-0.38	-1.15	-12.7	11.9
6,018.0	7.05	273.49	5,979.5	-189.1	-477.3	2.25	-2.14	5.36	-13.0	11.5
6,032.0	6.36	276.31	5,993.4	-188.9	-478.9	5.46	-4.93	20.14	-12.8	11.5
6,045.0	6.02	278.93	6,006.3	-188.7	-480.3	3.40	-2.62	20.15	-12.5	11.4
6,059.0	6.07	278.26	6,020.2	-188.5	-481.8	0.62	0.36	-4.79	-12.8	10.5

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
6,072.0	6.14	277.50	6,033.1	-188.3	-483.1	0.82	0.54	-5.85	-13.1	9.7
6,086.0	6.21	276.68	6,047.1	-188.1	-484.6	0.80	0.50	-5.86	-13.5	8.8
6,099.0	6.27	275.75	6,060.0	-188.0	-486.0	0.90	0.46	-7.15	-13.8	8.0
6,113.0	6.31	274.70	6,073.9	-187.8	-487.6	0.87	0.29	-7.50	-14.2	7.1
6,127.0	6.30	273.39	6,087.8	-187.7	-489.1	1.03	-0.07	-9.36	-14.5	6.2
6,140.0	6.00	277.56	6,100.7	-187.6	-490.5	4.14	-2.31	32.08	-14.2	6.6
6,154.0	5.64	286.15	6,114.7	-187.3	-491.9	6.72	-2.57	61.36	-13.3	7.9
6,168.0	5.47	291.98	6,128.6	-186.9	-493.2	4.21	-1.21	41.64	-12.8	8.2
6,182.0	5.37	290.20	6,142.5	-186.4	-494.4	1.40	-0.71	-12.71	-13.2	6.9
6,195.0	5.27	288.35	6,155.5	-186.0	-495.5	1.53	-0.77	-14.23	-13.6	5.6
6,209.0	5.18	286.57	6,169.4	-185.6	-496.7	1.32	-0.64	-12.71	-14.0	4.3
6,223.0	5.08	285.17	6,183.4	-185.3	-497.9	1.14	-0.71	-10.00	-14.3	3.2
6,236.0	4.99	283.94	6,196.3	-185.0	-499.1	1.08	-0.69	-9.46	-14.6	2.2
6,250.0	4.91	282.83	6,210.3	-184.7	-500.2	0.89	-0.57	-7.93	-14.9	1.3
6,264.0	4.84	281.78	6,224.2	-184.5	-501.4	0.81	-0.50	-7.50	-15.2	0.4
6,278.0	4.77	280.79	6,238.2	-184.2	-502.5	0.78	-0.50	-7.07	-15.5	-0.4
6,291.0	4.71	279.83	6,251.1	-184.0	-503.6	0.77	-0.46	-7.38	-15.8	-1.1
6,305.0	4.16	285.08	6,265.1	-183.8	-504.7	4.88	-3.93	37.50	-16.2	-0.1
6,319.0	3.34	285.16	6,279.1	-183.6	-505.5	5.86	-5.86	0.57	-16.5	-0.5
6,332.0	2.46	278.99	6,292.0	-183.4	-506.2	7.17	-6.77	-47.46	-16.4	-2.7
6,346.0	2.24	275.80	6,306.0	-183.3	-506.7	1.83	-1.57	-22.79	-16.1	-3.9
6,359.0	2.18	273.80	6,319.0	-183.3	-507.2	0.75	-0.46	-15.38	-16.0	-4.7
6,373.0	2.12	271.75	6,333.0	-183.3	-507.8	0.70	-0.43	-14.64	-15.8	-5.5
6,386.0	2.05	269.73	6,346.0	-183.3	-508.2	0.78	-0.54	-15.54	-15.6	-6.3
6,400.0	1.99	267.83	6,360.0	-183.3	-508.7	0.64	-0.43	-13.57	-15.5	-6.9
6,414.0	1.91	266.37	6,374.0	-183.3	-509.2	0.67	-0.57	-10.43	-15.5	-7.4
6,427.0	1.13	268.50	6,387.0	-183.3	-509.6	6.01	-6.00	16.38	-15.8	-6.9

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)	
6,441.0	0.26	167.31	6,401.0	-183.4	-509.7	8.63	-6.21	-722.79	9.9	-14.1	
6,455.0	0.39	142.72	6,415.0	-183.4	-509.7	1.34	0.93	-175.64	14.7	-8.6	
6,469.0	0.46	123.38	6,429.0	-183.5	-509.6	1.13	0.50	-138.14	16.6	-3.2	
6,482.0	0.56	109.94	6,442.0	-183.5	-509.5	1.19	0.77	-103.38	16.7	0.8	
6,496.0	0.68	100.98	6,456.0	-183.6	-509.3	1.10	0.86	-64.00	16.3	3.4	
6,510.0	0.67	97.49	6,470.0	-183.6	-509.2	0.30	-0.07	-24.93	15.9	4.4	
6,523.0	0.65	93.83	6,483.0	-183.6	-509.0	0.36	-0.15	-28.15	15.4	5.4	
6,537.0	0.64	90.03	6,497.0	-183.6	-508.9	0.31	-0.07	-27.14	14.9	6.4	
6,551.0	0.64	86.13	6,511.0	-183.6	-508.7	0.31	0.00	-27.86	14.2	7.4	
6,565.0	0.63	82.16	6,525.0	-183.6	-508.5	0.32	-0.07	-28.36	13.5	8.3	
6,578.0	0.63	78.18	6,538.0	-183.6	-508.4	0.34	0.00	-30.62	12.8	9.2	
6,592.0	0.64	74.22	6,552.0	-183.5	-508.3	0.32	0.07	-28.29	12.0	10.1	
6,606.0	0.66	73.86	6,566.0	-183.5	-508.1	0.15	0.14	-2.57	11.7	10.2	
6,619.0	0.67	73.53	6,579.0	-183.5	-508.0	0.08	0.08	-2.54	11.5	10.2	
6,633.0	0.69	73.23	6,593.0	-183.4	-507.8	0.15	0.14	-2.14	11.3	10.3	
6,646.0	0.72	72.95	6,606.0	-183.4	-507.6	0.23	0.23	-2.15	11.1	10.3	
6,660.0	0.74	72.70	6,620.0	-183.3	-507.5	0.14	0.14	-1.79	10.9	10.4	
6,673.0	0.76	72.47	6,633.0	-183.3	-507.3	0.16	0.15	-1.77	10.7	10.4	
6,687.0	0.78	72.26	6,647.0	-183.2	-507.1	0.14	0.14	-1.50	10.4	10.5	
6,701.0	0.75	71.13	6,661.0	-183.1	-507.0	0.24	-0.21	-8.07	10.0	10.7	
6,714.0	0.73	69.95	6,674.0	-183.1	-506.8	0.19	-0.15	-9.08	9.7	10.9	
6,728.0	0.71	68.69	6,688.0	-183.0	-506.6	0.18	-0.14	-9.00	9.2	11.1	
6,742.0	0.69	67.36	6,702.0	-183.0	-506.5	0.18	-0.14	-9.50	8.8	11.3	
6,756.0	0.66	65.96	6,716.0	-182.9	-506.3	0.24	-0.21	-10.00	8.4	11.5	
6,769.0	0.64	64.48	6,729.0	-182.8	-506.2	0.20	-0.15	-11.38	7.9	11.7	
6,783.0	0.62	62.92	6,743.0	-182.8	-506.1	0.19	-0.14	-11.14	7.4	11.9	
6,797.0	0.62	64.04	6,757.0	-182.7	-505.9	0.09	0.00	8.00	7.5	11.8	

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)	
6,810.0	0.62	65.17	6,770.0	-182.6	-505.8	0.09	0.00	8.69	7.6	11.6	
6,824.0	0.62	66.33	6,783.9	-182.6	-505.7	0.09	0.00	8.29	7.7	11.5	
6,837.0	0.62	67.51	6,796.9	-182.5	-505.5	0.10	0.00	9.08	7.8	11.3	
6,851.0	0.62	68.70	6,810.9	-182.5	-505.4	0.09	0.00	8.50	7.9	11.2	
6,864.0	0.62	69.91	6,823.9	-182.4	-505.3	0.10	0.00	9.31	8.0	11.0	
6,878.0	0.62	71.12	6,837.9	-182.4	-505.1	0.09	0.00	8.64	8.0	10.8	
6,892.0	0.61	71.23	6,851.9	-182.3	-505.0	0.07	-0.07	0.79	7.9	10.8	
6,905.0	0.61	71.35	6,864.9	-182.3	-504.8	0.01	0.00	0.92	7.8	10.8	
6,919.0	0.61	71.49	6,878.9	-182.2	-504.7	0.01	0.00	1.00	7.7	10.8	
6,933.0	0.60	71.64	6,892.9	-182.2	-504.6	0.07	-0.07	1.07	7.6	10.7	
6,947.0	0.60	71.80	6,906.9	-182.1	-504.4	0.01	0.00	1.14	7.4	10.7	
6,960.0	0.60	71.97	6,919.9	-182.1	-504.3	0.01	0.00	1.31	7.3	10.7	
6,974.0	0.60	72.16	6,933.9	-182.0	-504.1	0.01	0.00	1.36	7.2	10.7	
6,988.0	0.61	71.13	6,947.9	-182.0	-504.0	0.11	0.07	-7.36	6.9	10.8	
7,001.0	0.63	70.16	6,960.9	-182.0	-503.9	0.17	0.15	-7.46	6.6	10.9	
7,015.0	0.64	69.24	6,974.9	-181.9	-503.7	0.10	0.07	-6.57	6.2	11.0	
7,029.0	0.66	68.38	6,988.9	-181.8	-503.6	0.16	0.14	-6.14	5.9	11.1	
7,043.0	0.67	67.58	7,002.9	-181.8	-503.4	0.10	0.07	-5.71	5.6	11.2	
7,056.0	0.69	66.83	7,015.9	-181.7	-503.3	0.17	0.15	-5.77	5.3	11.3	
7,070.0	0.71	66.12	7,029.9	-181.7	-503.1	0.16	0.14	-5.07	5.0	11.3	
7,084.0	0.69	64.74	7,043.9	-181.6	-503.0	0.19	-0.14	-9.86	4.5	11.4	
7,098.0	0.68	63.32	7,057.9	-181.5	-502.8	0.14	-0.07	-10.14	4.1	11.5	
7,112.0	0.67	61.85	7,071.9	-181.4	-502.7	0.14	-0.07	-10.50	3.6	11.6	
7,125.0	0.66	60.35	7,084.9	-181.4	-502.5	0.15	-0.08	-11.54	3.2	11.7	
7,139.0	0.65	58.82	7,098.9	-181.3	-502.4	0.14	-0.07	-10.93	2.7	11.8	
7,153.0	0.64	57.25	7,112.9	-181.2	-502.3	0.15	-0.07	-11.21	2.2	11.9	
7,167.0	0.63	55.65	7,126.9	-181.1	-502.1	0.15	-0.07	-11.43	1.7	11.9	

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
7,181.0	0.57	55.13	7,140.9	-181.0	-502.0	0.43	-0.43	-3.71	1.5	11.9
7,194.0	0.51	54.51	7,153.9	-181.0	-501.9	0.46	-0.46	-4.77	1.2	12.0
7,208.0	0.45	53.77	7,167.9	-180.9	-501.8	0.43	-0.43	-5.29	0.9	12.0
7,221.0	0.39	52.83	7,180.9	-180.8	-501.8	0.46	-0.46	-7.23	0.6	12.0
7,235.0	0.34	51.61	7,194.9	-180.8	-501.7	0.36	-0.36	-8.71	0.3	12.0
7,248.0	0.28	49.94	7,207.9	-180.7	-501.6	0.47	-0.46	-12.85	-0.1	12.0
7,262.0	0.22	47.47	7,221.9	-180.7	-501.6	0.44	-0.43	-17.64	-0.7	12.0
7,276.0	0.17	44.24	7,235.9	-180.7	-501.5	0.37	-0.36	-23.07	-1.4	11.9
7,289.0	0.12	38.32	7,248.9	-180.6	-501.5	0.40	-0.38	-45.54	-2.7	11.7
7,303.0	0.07	24.25	7,262.9	-180.6	-501.5	0.39	-0.36	-100.50	-5.5	10.7
7,316.0	0.04	337.47	7,275.9	-180.6	-501.5	0.40	-0.23	-359.85	-11.6	3.3
7,330.0	0.06	277.43	7,289.9	-180.6	-501.5	0.38	0.14	-428.86	-8.7	-8.3
7,343.0	0.10	258.48	7,302.9	-180.6	-501.5	0.36	0.31	-145.77	-5.5	-10.7
7,357.0	0.15	251.24	7,316.9	-180.6	-501.6	0.37	0.36	-51.71	-4.1	-11.3
7,371.0	0.22	233.79	7,330.9	-180.6	-501.6	0.64	0.50	-124.64	-0.6	-12.1
7,384.0	0.29	224.62	7,343.9	-180.7	-501.6	0.62	0.54	-70.54	1.3	-12.0
7,398.0	0.37	219.20	7,357.9	-180.7	-501.7	0.61	0.57	-38.71	2.3	-11.8
7,412.0	0.45	215.66	7,371.9	-180.8	-501.8	0.60	0.57	-25.29	2.9	-11.7
7,426.0	0.53	213.16	7,385.9	-180.9	-501.8	0.59	0.57	-17.86	3.3	-11.5
7,439.0	0.61	211.29	7,398.9	-181.0	-501.9	0.63	0.62	-14.38	3.6	-11.4
7,453.0	0.69	209.84	7,412.9	-181.2	-502.0	0.58	0.57	-10.36	3.7	-11.3
7,467.0	0.72	210.15	7,426.9	-181.3	-502.1	0.22	0.21	2.21	3.5	-11.3
7,480.0	0.74	210.41	7,439.9	-181.4	-502.1	0.16	0.15	2.00	3.3	-11.4
7,494.0	0.77	210.63	7,453.9	-181.6	-502.2	0.22	0.21	1.57	3.0	-11.4
7,507.0	0.80	210.82	7,466.9	-181.8	-502.3	0.23	0.23	1.46	2.8	-11.4
7,521.0	0.82	210.97	7,480.9	-181.9	-502.4	0.14	0.14	1.07	2.6	-11.4
7,534.0	0.85	211.09	7,493.9	-182.1	-502.5	0.23	0.23	0.92	2.4	-11.4



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
7,548.0	0.87	211.19	7,507.9	-182.3	-502.6	0.14	0.14	0.71	2.1	-11.4
7,562.0	0.89	210.25	7,521.9	-182.5	-502.8	0.18	0.14	-6.71	2.1	-11.4
7,575.0	0.91	209.33	7,534.9	-182.6	-502.9	0.19	0.15	-7.08	2.1	-11.3
7,589.0	0.93	208.43	7,548.9	-182.8	-503.0	0.18	0.14	-6.43	2.0	-11.3
7,603.0	0.95	207.54	7,562.9	-183.0	-503.1	0.18	0.14	-6.36	2.0	-11.3
7,617.0	0.96	206.67	7,576.9	-183.2	-503.2	0.13	0.07	-6.21	1.9	-11.2
7,630.0	0.98	205.82	7,589.9	-183.4	-503.3	0.19	0.15	-6.54	1.9	-11.2
7,644.0	1.00	204.97	7,603.9	-183.7	-503.4	0.18	0.14	-6.07	1.8	-11.2
7,658.0	1.04	206.78	7,617.9	-183.9	-503.5	0.37	0.29	12.93	1.2	-11.2
7,671.0	1.09	208.43	7,630.9	-184.1	-503.6	0.45	0.38	12.69	0.6	-11.3
7,685.0	1.13	209.94	7,644.9	-184.3	-503.7	0.35	0.29	10.79	0.1	-11.3
7,699.0	1.18	211.32	7,658.9	-184.6	-503.9	0.41	0.36	9.86	-0.5	-11.3
7,713.0	1.22	212.58	7,672.9	-184.8	-504.0	0.34	0.29	9.00	-1.0	-11.2
7,726.0	1.27	213.74	7,685.9	-185.1	-504.2	0.43	0.38	8.92	-1.5	-11.2
7,740.0	1.31	214.81	7,699.9	-185.3	-504.4	0.33	0.29	7.64	-2.1	-11.2
7,754.0	1.37	214.98	7,713.9	-185.6	-504.5	0.43	0.43	1.21	-2.4	-11.2
7,767.0	1.44	215.19	7,726.9	-185.8	-504.7	0.54	0.54	1.62	-2.8	-11.2
7,781.0	1.52	215.39	7,740.9	-186.1	-504.9	0.57	0.57	1.43	-3.2	-11.2
7,795.0	1.59	215.51	7,754.9	-186.5	-505.2	0.50	0.50	0.86	-3.6	-11.1
7,809.0	1.65	215.51	7,768.9	-186.8	-505.4	0.43	0.43	0.00	-4.0	-11.1
7,822.0	1.70	215.34	7,781.9	-187.1	-505.6	0.39	0.38	-1.31	-4.3	-11.2
7,836.0	1.72	214.92	7,795.8	-187.4	-505.9	0.17	0.14	-3.00	-4.7	-11.2
7,850.0	1.70	214.02	7,809.8	-187.8	-506.1	0.24	-0.14	-6.43	-4.9	-11.3
7,863.0	1.65	212.74	7,822.8	-188.1	-506.3	0.48	-0.38	-9.85	-5.0	-11.4
7,877.0	1.59	211.13	7,836.8	-188.4	-506.5	0.54	-0.43	-11.50	-5.1	-11.5
7,891.0	1.52	209.20	7,850.8	-188.8	-506.7	0.62	-0.50	-13.79	-5.1	-11.7
7,905.0	1.44	206.96	7,864.8	-189.1	-506.9	0.71	-0.57	-16.00	-5.0	-11.9



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)	
7,918.0	1.37	204.42	7,877.8	-189.4	-507.0	0.72	-0.54	-19.54	-4.8	-12.1	
7,932.0	1.30	201.62	7,891.8	-189.7	-507.1	0.68	-0.50	-20.00	-4.5	-12.3	
7,946.0	1.23	199.43	7,905.8	-189.9	-507.2	0.61	-0.50	-15.64	-4.4	-12.5	
7,959.0	1.16	197.09	7,918.8	-190.2	-507.3	0.66	-0.54	-18.00	-4.1	-12.7	
7,973.0	1.10	194.61	7,932.8	-190.5	-507.4	0.55	-0.43	-17.71	-3.8	-12.9	
7,987.0	1.04	192.01	7,946.8	-190.7	-507.5	0.55	-0.43	-18.57	-3.5	-13.0	
8,001.0	0.99	189.37	7,960.8	-191.0	-507.5	0.49	-0.36	-18.86	-3.2	-13.2	
8,014.0	0.95	186.84	7,973.8	-191.2	-507.5	0.45	-0.31	-19.46	-2.8	-13.3	
8,028.0	0.91	184.63	7,987.8	-191.4	-507.6	0.38	-0.29	-15.79	-2.5	-13.4	
8,042.0	0.94	186.57	8,001.8	-191.6	-507.6	0.31	0.21	13.86	-3.2	-13.3	
8,055.0	0.97	188.39	8,014.8	-191.9	-507.6	0.33	0.23	14.00	-3.8	-13.2	
8,069.0	1.00	190.08	8,028.8	-192.1	-507.7	0.30	0.21	12.07	-4.4	-13.1	
8,082.0	1.02	191.66	8,041.8	-192.3	-507.7	0.26	0.15	12.15	-5.0	-12.9	
8,096.0	1.05	193.13	8,055.8	-192.6	-507.7	0.29	0.21	10.50	-5.6	-12.8	
8,109.0	1.08	194.51	8,068.8	-192.8	-507.8	0.30	0.23	10.62	-6.2	-12.7	
8,123.0	1.11	195.79	8,082.8	-193.1	-507.9	0.28	0.21	9.14	-6.7	-12.5	
8,137.0	1.15	197.13	8,096.8	-193.3	-508.0	0.34	0.29	9.57	-7.3	-12.4	
8,150.0	1.20	198.62	8,109.8	-193.6	-508.0	0.45	0.38	11.46	-7.9	-12.2	
8,164.0	1.25	200.13	8,123.8	-193.9	-508.1	0.43	0.36	10.79	-8.5	-11.9	
8,178.0	1.31	201.59	8,137.8	-194.1	-508.2	0.49	0.43	10.43	-9.1	-11.7	
8,192.0	1.35	202.97	8,151.8	-194.4	-508.4	0.37	0.29	9.86	-9.7	-11.5	
8,205.0	1.48	205.21	8,164.8	-194.7	-508.5	1.09	1.00	17.23	-10.5	-11.1	
8,219.0	1.58	206.25	8,178.8	-195.1	-508.7	0.74	0.71	7.43	-11.0	-10.9	
8,233.0	1.58	207.62	8,192.7	-195.4	-508.8	0.27	0.00	9.79	-11.7	-10.6	
8,246.0	1.58	209.05	8,205.7	-195.7	-509.0	0.30	0.00	11.00	-12.3	-10.3	
8,260.0	1.57	210.50	8,219.7	-196.1	-509.2	0.29	-0.07	10.36	-12.9	-10.0	
8,274.0	1.56	211.97	8,233.7	-196.4	-509.4	0.30	-0.07	10.50	-13.6	-9.7	



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)	
8,288.0	1.55	213.41	8,247.7	-196.7	-509.6	0.29	-0.07	10.29	-14.2	-9.3	
8,301.0	1.54	214.78	8,260.7	-197.0	-509.8	0.29	-0.08	10.54	-14.8	-9.0	
8,315.0	1.55	215.98	8,274.7	-197.3	-510.0	0.24	0.07	8.57	-15.3	-8.7	
8,329.0	1.56	216.95	8,288.7	-197.6	-510.2	0.20	0.07	6.93	-15.9	-8.4	
8,342.0	1.58	217.79	8,301.7	-197.9	-510.5	0.23	0.15	6.46	-16.3	-8.2	
8,356.0	1.61	218.55	8,315.7	-198.2	-510.7	0.26	0.21	5.43	-16.8	-7.9	
8,370.0	1.64	219.30	8,329.7	-198.5	-511.0	0.26	0.21	5.36	-17.3	-7.7	
8,384.0	1.68	220.09	8,343.7	-198.8	-511.2	0.33	0.29	5.64	-17.8	-7.5	
8,397.0	1.72	220.99	8,356.7	-199.1	-511.5	0.37	0.31	6.92	-18.3	-7.2	
8,411.0	1.77	222.06	8,370.7	-199.4	-511.7	0.43	0.36	7.64	-18.9	-6.9	
8,425.0	1.83	223.53	8,384.7	-199.8	-512.0	0.54	0.43	10.50	-19.5	-6.4	
8,438.0	1.90	225.11	8,397.7	-200.1	-512.3	0.67	0.54	12.15	-20.1	-5.8	
8,452.0	1.97	226.67	8,411.7	-200.4	-512.7	0.63	0.50	11.14	-20.7	-5.3	
8,466.0	2.03	228.13	8,425.6	-200.7	-513.0	0.56	0.43	10.43	-21.3	-4.7	
8,480.0	2.09	229.44	8,439.6	-201.1	-513.4	0.54	0.43	9.36	-21.9	-4.2	
8,493.0	2.15	230.55	8,452.6	-201.4	-513.8	0.56	0.46	8.54	-22.5	-3.8	
8,507.0	2.18	231.39	8,466.6	-201.7	-514.2	0.31	0.21	6.00	-23.1	-3.5	
8,521.0	2.18	231.85	8,480.6	-202.0	-514.6	0.12	0.00	3.29	-23.6	-3.3	
8,534.0	2.17	232.03	8,493.6	-202.3	-515.0	0.09	-0.08	1.38	-24.1	-3.2	
8,548.0	2.14	232.02	8,507.6	-202.7	-515.4	0.21	-0.21	-0.07	-24.7	-3.2	
8,562.0	2.10	231.92	8,521.6	-203.0	-515.8	0.29	-0.29	-0.71	-25.2	-3.2	
8,576.0	2.07	231.78	8,535.6	-203.3	-516.2	0.22	-0.21	-1.00	-25.7	-3.3	
8,589.0	2.03	231.69	8,548.6	-203.6	-516.6	0.31	-0.31	-0.69	-26.1	-3.3	
8,603.0	2.00	231.73	8,562.6	-203.9	-517.0	0.21	-0.21	0.29	-26.6	-3.3	
8,617.0	1.97	232.14	8,576.5	-204.2	-517.4	0.24	-0.21	2.93	-27.1	-3.1	
8,630.0	1.95	232.70	8,589.5	-204.5	-517.7	0.21	-0.15	4.31	-27.6	-2.9	
8,644.0	1.94	233.36	8,603.5	-204.7	-518.1	0.18	-0.07	4.71	-28.1	-2.5	

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
8,657.0	1.92	234.05	8,616.5	-205.0	-518.4	0.24	-0.15	5.31	-28.6	-2.2
8,671.0	1.90	234.73	8,630.5	-205.3	-518.8	0.22	-0.14	4.86	-29.1	-1.9
8,684.0	1.89	235.35	8,643.5	-205.5	-519.2	0.18	-0.08	4.77	-29.5	-1.5
8,698.0	1.87	235.86	8,657.5	-205.8	-519.6	0.19	-0.14	3.64	-30.0	-1.3
8,712.0	1.84	236.12	8,671.5	-206.0	-519.9	0.22	-0.21	1.86	-30.5	-1.1
8,725.0	1.81	236.23	8,684.5	-206.3	-520.3	0.23	-0.23	0.85	-30.9	-1.1
8,739.0	1.78	236.19	8,698.5	-206.5	-520.6	0.21	-0.21	-0.29	-31.3	-1.1
8,752.0	1.76	236.00	8,711.5	-206.7	-521.0	0.16	-0.15	-1.46	-31.7	-1.2
8,766.0	1.73	235.65	8,725.5	-207.0	-521.3	0.23	-0.21	-2.50	-32.1	-1.4
8,779.0	1.71	235.09	8,738.5	-207.2	-521.6	0.20	-0.15	-4.31	-32.5	-1.7
8,793.0	1.70	234.26	8,752.5	-207.4	-522.0	0.19	-0.07	-5.93	-32.9	-2.2
8,807.0	1.71	233.03	8,766.5	-207.7	-522.3	0.27	0.07	-8.79	-33.3	-2.9
8,820.0	1.72	231.60	8,779.4	-207.9	-522.6	0.34	0.08	-11.00	-33.6	-3.7
8,834.0	1.74	230.11	8,793.4	-208.2	-523.0	0.35	0.14	-10.64	-33.9	-4.6
8,848.0	1.76	228.67	8,807.4	-208.5	-523.3	0.35	0.14	-10.29	-34.2	-5.5
8,862.0	1.78	227.38	8,821.4	-208.8	-523.6	0.32	0.14	-9.21	-34.5	-6.2
8,875.0	1.80	226.35	8,834.4	-209.0	-523.9	0.29	0.15	-7.92	-34.8	-6.9
8,889.0	1.81	225.74	8,848.4	-209.3	-524.2	0.15	0.07	-4.36	-35.1	-7.2
8,903.0	1.80	225.87	8,862.4	-209.6	-524.5	0.08	-0.07	0.93	-35.6	-7.2
8,916.0	1.78	226.45	8,875.4	-209.9	-524.8	0.21	-0.15	4.46	-36.1	-6.8
8,930.0	1.76	227.33	8,889.4	-210.2	-525.1	0.24	-0.14	6.29	-36.6	-6.2
8,944.0	1.73	228.37	8,903.4	-210.5	-525.5	0.31	-0.21	7.43	-37.1	-5.6
8,958.0	1.71	229.44	8,917.4	-210.8	-525.8	0.27	-0.14	7.64	-37.7	-4.9
8,971.0	1.69	230.41	8,930.4	-211.0	-526.1	0.27	-0.15	7.46	-38.1	-4.2
8,985.0	1.68	231.13	8,944.4	-211.3	-526.4	0.17	-0.07	5.14	-38.6	-3.7
8,999.0	1.67	231.32	8,958.4	-211.5	-526.7	0.08	-0.07	1.36	-39.0	-3.6
9,012.0	1.67	231.21	8,971.4	-211.8	-527.0	0.02	0.00	-0.85	-39.4	-3.7



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
9,026.0	1.68	230.91	8,985.3	-212.0	-527.3	0.10	0.07	-2.14	-39.8	-3.9
9,040.0	1.68	230.49	8,999.3	-212.3	-527.6	0.09	0.00	-3.00	-40.1	-4.2
9,054.0	1.69	229.97	9,013.3	-212.6	-528.0	0.13	0.07	-3.71	-40.5	-4.6
9,067.0	1.69	229.40	9,026.3	-212.8	-528.2	0.13	0.00	-4.38	-40.8	-5.0
9,081.0	1.68	228.78	9,040.3	-213.1	-528.6	0.15	-0.07	-4.43	-41.2	-5.4
9,095.0	1.67	228.17	9,054.3	-213.4	-528.9	0.15	-0.07	-4.36	-41.6	-5.9
9,108.0	1.64	227.54	9,067.3	-213.6	-529.1	0.27	-0.23	-4.85	-41.9	-6.3
9,122.0	1.61	226.85	9,081.3	-213.9	-529.4	0.26	-0.21	-4.93	-42.2	-6.8
9,136.0	1.58	226.08	9,095.3	-214.1	-529.7	0.26	-0.21	-5.50	-42.5	-7.4
9,150.0	1.55	225.19	9,109.3	-214.4	-530.0	0.28	-0.21	-6.36	-42.7	-8.0
9,163.0	1.51	224.12	9,122.3	-214.7	-530.2	0.38	-0.31	-8.23	-42.9	-8.8
9,177.0	1.47	222.82	9,136.3	-214.9	-530.5	0.37	-0.29	-9.29	-43.1	-9.8
9,191.0	1.43	221.31	9,150.3	-215.2	-530.7	0.40	-0.29	-10.79	-43.2	-11.0
9,204.0	1.39	219.54	9,163.3	-215.4	-530.9	0.45	-0.31	-13.62	-43.1	-12.3
9,218.0	1.35	217.59	9,177.3	-215.7	-531.1	0.44	-0.29	-13.93	-43.0	-13.8
9,231.0	1.31	215.52	9,190.3	-215.9	-531.3	0.48	-0.31	-15.92	-42.8	-15.3
9,245.0	1.28	213.42	9,204.3	-216.2	-531.5	0.40	-0.21	-15.00	-42.5	-16.9
9,258.0	1.26	211.41	9,217.3	-216.4	-531.7	0.38	-0.15	-15.46	-42.2	-18.4
9,272.0	1.25	209.69	9,231.3	-216.7	-531.8	0.28	-0.07	-12.29	-41.9	-19.6
9,286.0	1.25	208.51	9,245.3	-217.0	-532.0	0.18	0.00	-8.43	-41.8	-20.5
9,299.0	1.25	207.61	9,258.3	-217.2	-532.1	0.15	0.00	-6.92	-41.8	-21.1
9,313.0	1.27	206.87	9,272.3	-217.5	-532.2	0.18	0.14	-5.29	-41.8	-21.7
9,327.0	1.28	206.21	9,286.2	-217.8	-532.4	0.13	0.07	-4.71	-41.9	-22.2
9,341.0	1.29	205.53	9,300.2	-218.1	-532.5	0.13	0.07	-4.86	-41.9	-22.7
9,354.0	1.30	204.75	9,313.2	-218.3	-532.6	0.16	0.08	-6.00	-41.9	-23.2
9,368.0	1.30	203.74	9,327.2	-218.6	-532.8	0.16	0.00	-7.21	-41.8	-24.0
9,382.0	1.28	202.24	9,341.2	-218.9	-532.9	0.28	-0.14	-10.71	-41.5	-25.1



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
9,395.0	1.25	200.48	9,354.2	-219.2	-533.0	0.38	-0.23	-13.54	-41.0	-26.3
9,409.0	1.22	198.60	9,368.2	-219.5	-533.1	0.36	-0.21	-13.43	-40.4	-27.7
9,423.0	1.19	196.78	9,382.2	-219.7	-533.2	0.35	-0.21	-13.00	-39.8	-28.9
9,437.0	1.16	195.24	9,396.2	-220.0	-533.3	0.31	-0.21	-11.00	-39.3	-30.0
9,450.0	1.14	194.30	9,409.2	-220.3	-533.3	0.21	-0.15	-7.23	-39.0	-30.6
9,464.0	1.13	194.42	9,423.2	-220.5	-533.4	0.07	-0.07	0.86	-39.4	-30.6
9,478.0	1.14	196.20	9,437.2	-220.8	-533.5	0.26	0.07	12.71	-40.6	-29.3
9,491.0	1.18	198.76	9,450.2	-221.0	-533.5	0.50	0.31	19.69	-42.1	-27.5
9,505.0	1.22	201.59	9,464.2	-221.3	-533.6	0.51	0.29	20.21	-43.7	-25.3
9,519.0	1.27	204.31	9,478.2	-221.6	-533.8	0.55	0.36	19.43	-45.2	-23.2
9,533.0	1.31	206.68	9,492.2	-221.9	-533.9	0.48	0.29	16.93	-46.4	-21.3
9,546.0	1.10	210.58	9,505.2	-222.1	-534.0	1.73	-1.62	30.00	-48.0	-18.1
9,560.0	0.68	219.73	9,519.2	-222.3	-534.2	3.16	-3.00	65.36	-50.5	-10.2
9,574.0	0.70	222.58	9,533.2	-222.4	-534.3	0.28	0.14	20.36	-51.1	-7.7
9,587.0	0.71	225.27	9,546.2	-222.5	-534.4	0.27	0.08	20.69	-51.6	-5.3
9,601.0	0.73	227.82	9,560.2	-222.7	-534.5	0.27	0.14	18.21	-52.0	-3.0
9,615.0	0.75	230.23	9,574.2	-222.8	-534.6	0.26	0.14	17.21	-52.2	-0.8
9,629.0	0.77	232.50	9,588.2	-222.9	-534.8	0.26	0.14	16.21	-52.4	1.3
9,642.0	0.79	234.64	9,601.2	-223.0	-534.9	0.27	0.15	16.46	-52.5	3.2
9,656.0	0.81	236.65	9,615.2	-223.1	-535.1	0.25	0.14	14.36	-52.5	5.1
9,670.0	0.91	234.98	9,629.2	-223.2	-535.3	0.74	0.71	-11.93	-52.9	3.5
9,683.0	1.01	233.62	9,642.2	-223.4	-535.4	0.79	0.77	-10.46	-53.2	2.3
9,697.0	1.10	232.49	9,656.2	-223.5	-535.6	0.66	0.64	-8.07	-53.4	1.2
9,711.0	1.20	231.53	9,670.2	-223.7	-535.9	0.73	0.71	-6.86	-53.7	0.3
9,725.0	1.30	230.70	9,684.2	-223.9	-536.1	0.73	0.71	-5.93	-54.0	-0.4
9,738.0	0.77	222.10	9,697.2	-224.0	-536.3	4.24	-4.08	-66.15	-53.6	-8.5
9,752.0	0.74	220.91	9,711.2	-224.2	-536.4	0.24	-0.21	-8.50	-53.6	-9.7

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
9,766.0	0.77	228.32	9,725.2	-224.3	-536.5	0.73	0.21	52.93	-54.6	-2.7
9,779.0	0.81	235.09	9,738.2	-224.4	-536.7	0.78	0.31	52.08	-54.7	3.8
9,793.0	0.86	241.13	9,752.2	-224.5	-536.8	0.72	0.36	43.14	-54.2	9.6
9,807.0	0.91	246.44	9,766.2	-224.6	-537.0	0.69	0.36	37.93	-53.3	14.5
9,821.0	0.98	251.09	9,780.2	-224.7	-537.3	0.74	0.50	33.21	-52.2	18.8
9,834.0	0.37	272.17	9,793.2	-224.7	-537.4	4.99	-4.69	162.15	-42.1	36.4
9,848.0	0.23	300.07	9,807.2	-224.7	-537.5	1.42	-1.00	199.29	-20.2	51.8
9,862.0	0.29	297.09	9,821.2	-224.7	-537.5	0.44	0.43	-21.29	-22.9	50.7
9,875.0	0.36	295.19	9,834.2	-224.7	-537.6	0.54	0.54	-14.62	-24.7	49.9
9,889.0	0.42	293.89	9,848.2	-224.6	-537.7	0.43	0.43	-9.29	-25.9	49.3
9,903.0	0.48	292.94	9,862.2	-224.6	-537.8	0.43	0.43	-6.79	-26.8	48.9
9,917.0	0.54	292.22	9,876.2	-224.5	-537.9	0.43	0.43	-5.14	-27.6	48.6
9,930.0	0.61	291.67	9,889.2	-224.5	-538.0	0.54	0.54	-4.23	-28.2	48.3
9,944.0	0.67	291.22	9,903.2	-224.4	-538.2	0.43	0.43	-3.21	-28.7	48.1
9,958.0	0.69	282.48	9,917.2	-224.4	-538.3	0.75	0.14	-62.43	-35.8	43.1
9,971.0	0.72	274.38	9,930.2	-224.4	-538.5	0.80	0.23	-62.31	-41.7	37.7
9,985.0	0.77	267.14	9,944.2	-224.4	-538.7	0.76	0.36	-51.71	-46.3	32.1
9,999.0	0.82	260.80	9,958.2	-224.4	-538.8	0.72	0.36	-45.29	-49.8	26.8
10,013.0	0.89	255.33	9,972.2	-224.4	-539.1	0.77	0.50	-39.07	-52.3	21.9
10,026.0	0.96	250.63	9,985.2	-224.5	-539.3	0.79	0.54	-36.15	-54.1	17.5
10,040.0	1.04	246.60	9,999.2	-224.6	-539.5	0.76	0.57	-28.79	-55.5	13.7
10,054.0	1.02	253.57	10,013.2	-224.7	-539.7	0.91	-0.14	49.79	-53.7	20.3
10,067.0	1.01	261.85	10,026.1	-224.7	-539.9	1.13	-0.08	63.69	-50.4	27.8
10,081.0	1.03	270.43	10,040.1	-224.7	-540.2	1.10	0.14	61.29	-45.9	35.1
10,094.0	1.06	278.38	10,053.1	-224.7	-540.4	1.14	0.23	61.15	-40.9	41.1
10,108.0	1.09	285.03	10,067.1	-224.6	-540.7	0.92	0.21	47.50	-36.1	45.6
10,121.0	1.12	289.95	10,080.1	-224.6	-540.9	0.77	0.23	37.85	-32.3	48.5

Company: Midland
Project: Lea County, NM (NAD 83 NME)
Site: Appaloosa 18 Fed Com
Well: #701H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 26' @ 3362.0usft
MD Reference: KB = 26' @ 3362.0usft
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)	
10,135.0	1.17	298.82	10,094.1	-224.5	-541.2	1.31	0.36	63.36	-24.7	52.9	
10,149.0	1.27	316.88	10,108.1	-224.3	-541.4	2.82	0.71	129.00	-7.4	58.0	
10,162.0	1.11	323.24	10,121.1	-224.1	-541.6	1.59	-1.23	48.92	-1.2	58.5	
10,176.0	1.14	311.89	10,135.1	-223.9	-541.8	1.60	0.21	-81.07	-12.9	57.1	
10,190.0	1.24	300.54	10,149.1	-223.7	-542.0	1.83	0.71	-81.07	-24.2	53.4	
10,204.0	1.40	291.62	10,163.1	-223.6	-542.3	1.86	1.14	-63.71	-32.5	49.0	
10,217.0	1.58	285.88	10,176.1	-223.5	-542.6	1.80	1.38	-44.15	-37.6	45.5	
10,231.0	1.73	283.31	10,190.1	-223.3	-543.0	1.20	1.07	-18.36	-40.0	43.7	
10,245.0	1.78	280.93	10,204.1	-223.3	-543.4	0.63	0.36	-17.00	-42.2	42.0	
10,258.0	1.88	280.42	10,217.1	-223.2	-543.8	0.78	0.77	-3.92	-43.0	41.7	
10,272.0	1.99	280.92	10,231.1	-223.1	-544.3	0.79	0.79	3.57	-43.1	42.0	
10,285.0	2.13	281.90	10,244.1	-223.0	-544.7	1.11	1.08	7.54	-42.8	42.8	
10,299.0	2.26	283.05	10,258.1	-222.9	-545.3	0.98	0.93	8.21	-42.5	43.6	
10,312.0	2.16	283.25	10,271.1	-222.8	-545.8	0.77	-0.77	1.54	-42.9	43.8	
10,326.0	2.04	281.96	10,285.1	-222.7	-546.3	0.92	-0.86	-9.21	-44.3	42.8	
10,340.0	2.09	284.14	10,299.0	-222.5	-546.8	0.67	0.36	15.57	-43.2	44.5	
10,353.0	2.13	286.17	10,312.0	-222.4	-547.2	0.65	0.31	15.62	-42.1	46.0	
10,367.0	2.16	288.03	10,326.0	-222.3	-547.7	0.54	0.21	13.29	-41.1	47.3	
10,381.0	2.20	289.66	10,340.0	-222.1	-548.2	0.53	0.29	11.64	-40.2	48.5	
10,395.0	2.24	290.95	10,354.0	-221.9	-548.7	0.46	0.29	9.21	-39.7	49.4	
10,408.0	2.22	294.38	10,367.0	-221.7	-549.2	1.04	-0.15	26.38	-37.2	51.7	
10,422.0	1.89	303.27	10,381.0	-221.5	-549.6	3.27	-2.36	63.50	-29.2	56.8	
10,436.0	1.85	306.84	10,395.0	-221.2	-550.0	0.88	-0.29	25.50	-26.1	58.6	
10,449.0	2.01	307.06	10,408.0	-220.9	-550.4	1.23	1.23	1.69	-26.3	58.7	
10,463.0	2.18	307.09	10,422.0	-220.6	-550.8	1.21	1.21	0.21	-26.8	58.7	
10,477.0	2.36	306.98	10,435.9	-220.3	-551.2	1.29	1.29	-0.79	-27.5	58.6	
10,491.0	2.52	306.73	10,449.9	-219.9	-551.7	1.15	1.14	-1.79	-28.3	58.5	

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
10,504.0	2.40	307.79	10,462.9	-219.6	-552.1	0.99	-0.92	8.15	-27.8	59.0
10,518.0	2.50	307.07	10,476.9	-219.2	-552.6	0.75	0.71	-5.14	-29.1	58.7
10,532.0	2.49	312.17	10,490.9	-218.9	-553.1	1.59	-0.07	36.43	-24.4	61.1
10,545.0	2.48	310.55	10,503.9	-218.5	-553.5	0.55	-0.08	-12.46	-26.7	60.3
10,559.0	2.44	308.71	10,517.9	-218.1	-554.0	0.63	-0.29	-13.14	-29.2	59.4
10,572.0	2.14	313.07	10,530.9	-217.8	-554.4	2.67	-2.31	33.54	-25.1	61.5
10,586.0	1.98	313.58	10,544.9	-217.4	-554.7	1.15	-1.14	3.64	-25.1	61.7
10,599.0	1.89	310.64	10,557.8	-217.1	-555.0	1.03	-0.69	-22.62	-28.6	60.3
10,613.0	1.80	307.27	10,571.8	-216.8	-555.4	1.01	-0.64	-24.07	-32.6	58.5
10,627.0	1.69	304.12	10,585.8	-216.6	-555.7	1.04	-0.79	-22.50	-36.2	56.7
10,640.0	1.58	299.22	10,598.8	-216.4	-556.1	1.37	-0.85	-37.69	-41.3	53.3
10,654.0	1.50	291.21	10,612.8	-216.2	-556.4	1.64	-0.57	-57.21	-48.7	47.0
10,668.0	1.41	287.06	10,626.8	-216.1	-556.7	0.99	-0.64	-29.64	-52.3	43.4
10,682.0	1.34	282.80	10,640.8	-216.0	-557.1	0.88	-0.50	-30.43	-55.7	39.4
10,695.0	1.28	278.84	10,653.8	-216.0	-557.3	0.84	-0.46	-30.46	-58.6	35.4
10,709.0	1.32	272.98	10,667.8	-215.9	-557.7	0.99	0.29	-41.86	-62.2	29.2
10,723.0	1.29	272.36	10,681.8	-215.9	-558.0	0.24	-0.21	-4.43	-62.9	28.5
10,736.0	1.27	272.68	10,694.8	-215.9	-558.3	0.16	-0.15	2.46	-63.0	28.9
10,750.0	1.27	273.60	10,708.8	-215.9	-558.6	0.15	0.00	6.57	-62.8	29.9
10,764.0	1.28	274.86	10,722.8	-215.9	-558.9	0.21	0.07	9.00	-62.5	31.3
10,778.0	1.29	276.26	10,736.8	-215.8	-559.2	0.24	0.07	10.00	-62.0	32.8
10,791.0	1.31	277.66	10,749.8	-215.8	-559.5	0.29	0.15	10.77	-61.5	34.3
10,805.0	1.32	278.92	10,763.8	-215.8	-559.8	0.22	0.07	9.00	-61.0	35.7
10,819.0	1.32	279.88	10,777.8	-215.7	-560.1	0.16	0.00	6.86	-60.7	36.7
10,832.0	1.31	280.65	10,790.8	-215.7	-560.4	0.16	-0.08	5.92	-60.5	37.5
10,846.0	1.30	281.32	10,804.8	-215.6	-560.7	0.13	-0.07	4.79	-60.4	38.2
10,860.0	1.28	281.98	10,818.8	-215.5	-561.0	0.18	-0.14	4.71	-60.3	38.9

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
10,874.0	1.25	282.70	10,832.8	-215.5	-561.4	0.24	-0.21	5.14	-60.1	39.7
10,887.0	1.22	283.57	10,845.8	-215.4	-561.6	0.27	-0.23	6.69	-59.8	40.6
10,901.0	1.18	284.74	10,859.8	-215.3	-561.9	0.34	-0.29	8.36	-59.2	41.8
10,915.0	1.11	286.07	10,873.8	-215.3	-562.2	0.53	-0.50	9.50	-58.5	43.1
10,928.0	1.03	287.77	10,886.8	-215.2	-562.4	0.66	-0.62	13.08	-57.5	44.9
10,942.0	0.95	289.87	10,900.8	-215.1	-562.6	0.63	-0.57	15.00	-56.0	46.9
10,955.0	0.86	292.39	10,913.8	-215.0	-562.8	0.76	-0.69	19.38	-54.1	49.4
10,969.0	0.79	295.32	10,927.7	-215.0	-563.0	0.58	-0.50	20.93	-51.7	52.1
10,982.0	0.71	298.54	10,940.7	-214.9	-563.2	0.70	-0.62	24.77	-48.9	54.9
10,996.0	0.65	301.75	10,954.7	-214.8	-563.3	0.51	-0.43	22.93	-45.9	57.6
11,010.0	0.69	297.65	10,968.7	-214.7	-563.5	0.45	0.29	-29.29	-50.1	54.1
11,023.0	0.73	293.99	10,981.7	-214.6	-563.6	0.47	0.31	-28.15	-53.6	50.8
11,037.0	0.77	290.74	10,995.7	-214.6	-563.8	0.42	0.29	-23.21	-56.5	47.7
11,051.0	0.82	287.83	11,009.7	-214.5	-564.0	0.46	0.36	-20.79	-59.1	44.8
11,065.0	0.86	285.23	11,023.7	-214.5	-564.1	0.39	0.29	-18.57	-61.3	42.0
11,078.0	0.91	282.91	11,036.7	-214.4	-564.3	0.47	0.38	-17.85	-63.1	39.5
11,092.0	0.96	280.81	11,050.7	-214.4	-564.6	0.43	0.36	-15.00	-64.7	37.2
11,106.0	0.84	279.75	11,064.7	-214.3	-564.8	0.87	-0.86	-7.57	-65.6	36.0
11,119.0	0.72	278.50	11,077.7	-214.3	-565.0	0.93	-0.92	-9.62	-66.6	34.5
11,133.0	0.60	276.75	11,091.7	-214.3	-565.1	0.87	-0.86	-12.50	-67.8	32.5
11,147.0	0.48	274.15	11,105.7	-214.3	-565.2	0.87	-0.86	-18.57	-69.3	29.3
11,161.0	0.52	288.97	11,119.7	-214.2	-565.4	0.96	0.29	105.86	-59.6	46.1
11,174.0	0.76	316.88	11,132.7	-214.1	-565.5	2.97	1.85	214.69	-31.2	68.7
11,188.0	0.98	329.52	11,146.7	-214.0	-565.6	2.08	1.57	90.29	-15.7	73.9
11,202.0	0.78	326.78	11,160.7	-213.8	-565.7	1.46	-1.43	-19.57	-19.4	73.0
11,215.0	0.64	343.05	11,173.7	-213.6	-565.8	1.88	-1.08	125.15	1.7	75.6
11,229.0	0.57	5.39	11,187.7	-213.5	-565.8	1.74	-0.50	159.57	30.1	69.3

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)	
11,243.0	0.61	28.95	11,201.7	-213.4	-565.8	1.74	0.29	168.29	55.2	51.5	
11,257.0	0.73	47.36	11,215.7	-213.2	-565.7	1.75	0.86	131.50	68.5	31.4	
11,270.0	0.90	59.72	11,228.7	-213.1	-565.5	1.87	1.31	95.08	73.4	16.1	
11,284.0	1.10	67.87	11,242.7	-213.0	-565.3	1.75	1.43	58.21	74.7	5.5	
11,298.0	1.23	69.43	11,256.7	-212.9	-565.0	0.96	0.93	11.14	74.6	3.5	
11,311.0	1.38	70.90	11,269.7	-212.8	-564.7	1.18	1.15	11.31	74.3	1.6	
11,325.0	1.53	71.97	11,283.7	-212.7	-564.4	1.09	1.07	7.64	74.0	0.2	
11,339.0	1.67	72.45	11,297.7	-212.6	-564.0	1.00	1.00	3.43	73.6	-0.4	
11,353.0	2.07	75.58	11,311.7	-212.5	-563.6	2.95	2.86	22.36	73.0	-4.4	
11,366.0	2.37	78.16	11,324.7	-212.4	-563.1	2.43	2.31	19.85	72.2	-7.7	
11,380.0	2.67	80.16	11,338.7	-212.2	-562.5	2.23	2.14	14.29	71.3	-10.2	
11,394.0	2.67	77.36	11,352.7	-212.1	-561.9	0.93	0.00	-20.00	71.1	-6.7	
11,407.0	2.67	73.92	11,365.6	-212.0	-561.3	1.23	0.00	-26.46	70.7	-2.5	
11,421.0	2.68	70.16	11,379.6	-211.8	-560.7	1.26	0.07	-26.86	70.1	2.2	
11,435.0	2.71	66.42	11,393.6	-211.5	-560.0	1.27	0.21	-26.71	69.1	6.7	
11,449.0	2.76	63.09	11,407.6	-211.2	-559.4	1.19	0.36	-23.79	68.0	10.7	
11,462.0	2.84	60.57	11,420.6	-210.9	-558.9	1.13	0.62	-19.38	66.8	13.7	
11,476.0	2.95	59.34	11,434.6	-210.6	-558.3	0.90	0.79	-8.79	65.8	15.1	
11,490.0	3.12	58.62	11,448.5	-210.2	-557.6	1.24	1.21	-5.14	64.8	15.9	
11,503.0	3.33	58.60	11,461.5	-209.8	-557.0	1.62	1.62	-0.15	64.1	15.9	
11,517.0	3.56	58.92	11,475.5	-209.4	-556.3	1.65	1.64	2.29	63.3	15.6	
11,530.0	3.80	59.37	11,488.5	-209.0	-555.6	1.86	1.85	3.46	62.6	15.1	
11,544.0	4.02	59.83	11,502.4	-208.5	-554.8	1.59	1.57	3.29	61.8	14.6	
11,557.0	4.20	60.23	11,515.4	-208.0	-553.9	1.40	1.38	3.08	61.0	14.2	
11,571.0	4.30	60.51	11,529.4	-207.5	-553.0	0.73	0.71	2.00	60.0	13.9	
11,585.0	4.29	60.59	11,543.3	-207.0	-552.1	0.08	-0.07	0.57	59.0	13.8	
11,598.0	4.21	60.38	11,556.3	-206.5	-551.3	0.63	-0.62	-1.62	58.0	14.0	

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)	
11,612.0	4.07	59.97	11,570.3	-206.0	-550.4	1.02	-1.00	-2.93	56.8	14.4	
11,626.0	3.90	59.42	11,584.2	-205.5	-549.6	1.24	-1.21	-3.93	55.7	15.0	
11,640.0	3.72	58.79	11,598.2	-205.0	-548.8	1.32	-1.29	-4.50	54.6	15.6	
11,653.0	3.52	58.13	11,611.2	-204.6	-548.1	1.57	-1.54	-5.08	53.6	16.2	
11,667.0	3.32	57.54	11,625.1	-204.2	-547.4	1.45	-1.43	-4.21	52.6	16.7	
11,681.0	3.12	57.49	11,639.1	-203.7	-546.7	1.43	-1.43	-0.36	51.8	16.8	
11,695.0	2.93	57.60	11,653.1	-203.3	-546.1	1.36	-1.36	0.79	51.1	16.7	
11,709.0	2.74	57.73	11,667.1	-203.0	-545.5	1.36	-1.36	0.93	50.5	16.5	
11,722.0	2.55	57.74	11,680.1	-202.6	-545.0	1.46	-1.46	0.08	49.9	16.5	
11,736.0	2.37	57.38	11,694.1	-202.3	-544.5	1.29	-1.29	-2.57	49.2	16.8	
11,750.0	2.20	56.32	11,708.0	-202.0	-544.0	1.25	-1.21	-7.57	48.3	17.7	
11,764.0	2.05	53.65	11,722.0	-201.7	-543.6	1.28	-1.07	-19.07	46.9	20.0	
11,779.0	1.91	49.82	11,737.0	-201.4	-543.2	1.28	-0.93	-25.53	44.9	23.0	
11,793.0	1.80	45.04	11,751.0	-201.1	-542.8	1.36	-0.79	-34.14	42.4	26.7	
11,808.0	1.70	39.58	11,766.0	-200.8	-542.5	1.30	-0.67	-36.40	39.2	30.6	
11,822.0	1.39	76.11	11,780.0	-200.6	-542.2	7.23	-2.21	260.93	49.4	1.3	
11,836.0	1.29	69.30	11,794.0	-200.5	-541.9	1.34	-0.71	-48.64	48.5	7.2	
11,851.0	1.21	61.78	11,809.0	-200.3	-541.6	1.22	-0.53	-50.13	46.9	13.4	
11,865.0	1.16	54.13	11,823.0	-200.2	-541.4	1.18	-0.36	-54.64	44.4	19.5	
11,879.0	1.07	49.47	11,837.0	-200.0	-541.2	0.91	-0.64	-33.29	42.4	23.1	
11,892.0	1.00	44.72	11,850.0	-199.8	-541.0	0.85	-0.54	-36.54	40.1	26.5	
11,906.0	0.97	43.50	11,864.0	-199.7	-540.8	0.26	-0.21	-8.71	39.3	27.3	
11,919.0	0.99	45.16	11,877.0	-199.5	-540.7	0.27	0.15	12.77	39.8	26.2	
11,933.0	1.01	46.77	11,891.0	-199.3	-540.5	0.25	0.14	11.50	40.3	25.0	
11,946.0	1.03	48.34	11,904.0	-199.2	-540.3	0.26	0.15	12.08	40.7	23.9	
11,960.0	1.05	49.87	11,918.0	-199.0	-540.1	0.24	0.14	10.93	41.1	22.8	
11,974.0	1.01	43.38	11,932.0	-198.9	-540.0	0.88	-0.29	-46.36	38.0	27.3	



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
11,987.0	0.99	36.41	11,945.0	-198.7	-539.8	0.95	-0.15	-53.62	34.2	31.7
12,001.0	1.03	30.84	11,959.0	-198.5	-539.7	0.76	0.29	-39.79	30.7	34.9
12,015.0	1.07	26.20	11,973.0	-198.2	-539.6	0.67	0.29	-33.14	27.5	37.2
KOP, MD:12015.0', TVD:11973.0', N/S:-198.2', E/W:-539.6', INC:1.07										
12,029.0	2.22	28.49	11,987.0	-197.9	-539.4	8.23	8.21	16.36	28.6	36.1
12,042.0	3.83	25.82	11,999.9	-197.3	-539.1	12.43	12.38	-20.54	26.1	37.4
12,056.0	5.04	25.67	12,013.9	-196.3	-538.6	8.64	8.64	-1.07	24.9	37.5
12,070.0	6.24	25.51	12,027.8	-195.1	-538.0	8.57	8.57	-1.14	23.4	37.6
12,083.0	7.91	23.03	12,040.7	-193.6	-537.3	13.06	12.85	-19.08	20.3	38.5
12,097.0	9.26	20.00	12,054.6	-191.7	-536.6	10.17	9.64	-21.64	16.7	39.2
12,111.0	9.39	19.41	12,068.4	-189.5	-535.8	1.15	0.93	-4.21	14.9	39.1
12,125.0	10.04	25.53	12,082.2	-187.3	-534.9	8.71	4.64	43.71	17.8	36.8
12,138.0	11.37	26.42	12,095.0	-185.2	-533.8	10.31	10.23	6.85	17.4	35.8
12,152.0	13.13	23.34	12,108.6	-182.5	-532.6	13.41	12.57	-22.00	14.4	35.8
12,166.0	14.84	23.11	12,122.2	-179.4	-531.3	12.22	12.21	-1.64	13.1	34.8
12,179.0	15.92	23.84	12,134.8	-176.2	-529.9	8.44	8.31	5.62	12.6	33.6
12,193.0	16.83	25.13	12,148.2	-172.6	-528.3	7.00	6.50	9.21	12.3	31.9
12,207.0	17.83	28.09	12,161.6	-168.9	-526.4	9.52	7.14	21.14	13.0	29.6
12,221.0	18.35	31.26	12,174.9	-165.1	-524.2	7.95	3.71	22.64	13.7	26.8
12,234.0	18.07	31.11	12,187.2	-161.6	-522.1	2.18	-2.15	-1.15	13.2	24.6
12,248.0	18.37	29.30	12,200.5	-157.9	-519.9	4.57	2.14	-12.93	12.3	22.5
12,262.0	18.42	27.80	12,213.8	-154.0	-517.8	3.40	0.36	-10.71	12.0	20.3
12,275.0	18.18	26.44	12,226.1	-150.3	-516.0	3.77	-1.85	-10.46	12.2	18.2
12,289.0	18.67	25.08	12,239.4	-146.4	-514.0	4.66	3.50	-9.71	12.8	15.9
12,302.0	20.19	24.39	12,251.7	-142.4	-512.2	11.82	11.69	-5.31	13.7	13.6
12,310.3	20.45	24.31	12,259.5	-139.8	-511.0	3.16	3.14	-1.01	14.4	12.0
FTP Crossing, MD:12310.3', TVD:12259.5', N/S:-139.8', E/W:-511.0', INC:20.45										



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)	
12,316.0	20.63	24.25	12,264.8	-138.0	-510.2	3.16	3.14	-0.99	15.0	10.9	
12,329.0	22.02	23.40	12,276.9	-133.7	-508.3	10.95	10.69	-6.54	16.2	8.6	
12,343.0	23.95	21.88	12,289.8	-128.6	-506.2	14.42	13.79	-10.86	17.4	6.3	
12,357.0	25.33	18.68	12,302.5	-123.1	-504.2	13.71	9.86	-22.86	18.7	4.7	
12,370.0	26.94	16.30	12,314.2	-117.7	-502.5	14.78	12.38	-18.31	20.2	3.2	
12,384.0	28.26	15.89	12,326.6	-111.4	-500.7	9.53	9.43	-2.93	21.9	1.1	
12,398.0	29.24	16.41	12,338.9	-105.0	-498.8	7.22	7.00	3.71	23.8	-1.3	
12,412.0	31.23	16.28	12,351.0	-98.2	-496.8	14.22	14.21	-0.93	25.7	-3.7	
12,425.0	33.36	15.54	12,362.0	-91.5	-494.9	16.66	16.38	-5.69	27.4	-5.6	
12,439.0	35.77	15.47	12,373.5	-83.9	-492.8	17.22	17.21	-0.50	29.1	-8.0	
12,453.0	38.08	14.89	12,384.7	-75.8	-490.6	16.69	16.50	-4.14	30.6	-10.1	
12,466.0	40.79	14.41	12,394.7	-67.8	-488.5	20.98	20.85	-3.69	31.8	-12.2	
12,480.0	43.69	13.34	12,405.1	-58.6	-486.2	21.34	20.71	-7.64	33.0	-14.1	
12,494.0	46.38	13.24	12,415.0	-49.0	-484.0	19.22	19.21	-0.71	33.7	-16.3	
12,508.0	49.18	13.36	12,424.4	-38.9	-481.6	20.01	20.00	0.86	34.1	-18.7	
12,521.0	52.25	12.92	12,432.6	-29.1	-479.3	23.76	23.62	-3.38	34.2	-20.7	
12,535.0	55.27	12.08	12,440.9	-18.1	-476.9	22.11	21.57	-6.00	34.2	-22.6	
12,549.0	58.18	10.69	12,448.6	-6.6	-474.6	22.38	20.79	-9.93	33.9	-24.4	
12,562.0	61.21	10.07	12,455.1	4.4	-472.5	23.67	23.31	-4.77	33.2	-26.0	
12,576.0	64.19	10.65	12,461.6	16.7	-470.3	21.60	21.29	4.14	31.8	-28.2	
12,590.0	66.18	9.22	12,467.4	29.2	-468.1	16.97	14.21	-10.21	30.6	-29.8	
12,604.0	68.61	7.54	12,472.8	42.0	-466.2	20.59	17.36	-12.00	29.3	-31.2	
12,617.0	71.19	5.81	12,477.3	54.1	-464.8	23.45	19.85	-13.31	27.9	-32.2	
12,631.0	73.90	4.34	12,481.5	67.4	-463.6	21.79	19.36	-10.50	26.0	-33.1	
12,645.0	76.54	2.82	12,485.1	80.9	-462.8	21.58	18.86	-10.86	23.8	-33.7	
12,658.0	79.16	1.24	12,487.8	93.6	-462.3	23.39	20.15	-12.15	21.5	-34.1	
12,672.0	81.39	0.21	12,490.2	107.4	-462.2	17.50	15.93	-7.36	18.6	-34.2	

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
12,685.0	81.67	0.07	12,492.1	120.3	-462.1	2.40	2.15	-1.08	16.0	-34.2
12,699.0	81.99	359.93	12,494.1	134.1	-462.1	2.49	2.29	-1.00	13.5	-34.3
12,712.0	82.34	359.82	12,495.8	147.0	-462.2	2.82	2.69	-0.85	11.4	-34.3
12,726.0	82.74	359.76	12,497.6	160.9	-462.2	2.89	2.86	-0.43	9.4	-34.3
12,740.0	83.27	359.83	12,499.4	174.8	-462.3	3.82	3.79	0.50	7.6	-34.3
12,753.0	84.41	359.81	12,500.7	187.7	-462.3	8.77	8.77	-0.15	6.2	-34.4
12,767.0	86.81	359.39	12,501.8	201.6	-462.4	17.40	17.14	-3.00	4.6	-34.4
12,781.0	89.23	358.85	12,502.3	215.6	-462.6	17.71	17.29	-3.86	2.8	-34.3
12,795.0	89.87	359.00	12,502.4	229.6	-462.9	4.70	4.57	1.07	1.0	-34.1
12,808.0	91.64	358.89	12,502.2	242.6	-463.1	13.64	13.62	-0.85	-0.6	-34.0
12,822.0	92.09	359.08	12,501.8	256.6	-463.4	3.49	3.21	1.36	-2.2	-33.8
12,836.0	92.38	359.23	12,501.2	270.6	-463.6	2.33	2.07	1.07	-3.4	-33.7
12,849.0	92.58	359.34	12,500.7	283.6	-463.7	1.76	1.54	0.85	-4.3	-33.6
12,863.0	92.73	359.43	12,500.0	297.6	-463.9	1.25	1.07	0.64	-4.9	-33.6
12,877.0	92.86	359.51	12,499.3	311.6	-464.0	1.09	0.93	0.57	-5.5	-33.6
12,891.0	93.02	359.57	12,498.6	325.5	-464.1	1.22	1.14	0.43	-6.1	-33.5
12,904.0	92.20	359.89	12,498.0	338.5	-464.2	6.77	-6.31	2.46	-6.6	-33.6
12,918.0	92.07	0.02	12,497.5	352.5	-464.2	1.31	-0.93	0.93	-7.0	-33.7
12,932.0	92.43	0.03	12,497.0	366.5	-464.2	2.57	2.57	0.07	-7.5	-33.8
12,945.0	92.83	0.03	12,496.4	379.5	-464.2	3.08	3.08	0.00	-8.0	-33.9
12,959.0	93.27	0.03	12,495.6	393.5	-464.2	3.14	3.14	0.00	-8.7	-34.0
12,972.0	93.70	0.03	12,494.8	406.5	-464.2	3.31	3.31	0.00	-9.4	-34.1
12,986.0	94.12	0.03	12,493.9	420.4	-464.2	3.00	3.00	0.00	-10.2	-34.2
12,999.0	93.81	359.86	12,493.0	433.4	-464.2	2.72	-2.38	-1.31	-11.0	-34.3
13,013.0	93.22	359.63	12,492.1	447.4	-464.2	4.52	-4.21	-1.64	-11.8	-34.3
13,027.0	92.49	359.36	12,491.4	461.3	-464.4	5.56	-5.21	-1.93	-12.5	-34.3
13,040.0	91.55	359.01	12,491.0	474.3	-464.5	7.72	-7.23	-2.69	-12.8	-34.2

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
13,054.0	90.55	358.65	12,490.7	488.3	-464.8	7.59	-7.14	-2.57	-13.0	-34.0
13,068.0	89.48	358.23	12,490.7	502.3	-465.2	8.21	-7.64	-3.00	-12.9	-33.7
13,082.0	89.81	358.38	12,490.8	516.3	-465.6	2.59	2.36	1.07	-12.7	-33.4
13,095.0	90.26	358.61	12,490.8	529.3	-466.0	3.89	3.46	1.77	-12.7	-33.1
13,109.0	90.63	358.79	12,490.7	543.3	-466.3	2.94	2.64	1.29	-12.7	-32.9
13,123.0	90.84	358.86	12,490.5	557.3	-466.6	1.58	1.50	0.50	-12.8	-32.7
13,136.0	90.96	358.86	12,490.3	570.3	-466.8	0.92	0.92	0.00	-12.9	-32.6
13,150.0	91.02	358.81	12,490.0	584.3	-467.1	0.56	0.43	-0.36	-13.1	-32.4
13,163.0	91.06	358.73	12,489.8	597.3	-467.4	0.69	0.31	-0.62	-13.2	-32.2
13,177.0	91.10	358.61	12,489.5	611.3	-467.7	0.90	0.29	-0.86	-13.4	-32.0
13,190.0	90.02	357.98	12,489.4	624.3	-468.1	9.62	-8.31	-4.85	-13.4	-31.7
13,204.0	89.59	357.50	12,489.5	638.3	-468.6	4.60	-3.07	-3.43	-13.3	-31.2
13,218.0	89.72	357.23	12,489.6	652.2	-469.3	2.14	0.93	-1.93	-13.1	-30.7
13,231.0	89.88	356.93	12,489.6	665.2	-470.0	2.62	1.23	-2.31	-13.0	-30.1
13,245.0	90.04	356.62	12,489.6	679.2	-470.7	2.49	1.14	-2.21	-12.9	-29.4
13,259.0	90.21	356.33	12,489.6	693.2	-471.6	2.40	1.21	-2.07	-12.9	-28.6
13,273.0	90.27	356.16	12,489.5	707.2	-472.5	1.29	0.43	-1.21	-12.8	-27.8
13,286.0	88.92	357.05	12,489.6	720.1	-473.3	12.44	-10.38	6.85	-12.6	-27.2
13,300.0	87.58	357.94	12,490.0	734.1	-473.9	11.49	-9.57	6.36	-12.1	-26.7
13,314.0	87.75	357.89	12,490.6	748.1	-474.4	1.27	1.21	-0.36	-11.4	-26.3
13,327.0	87.93	357.88	12,491.1	761.1	-474.9	1.39	1.38	-0.08	-10.9	-25.9
13,341.0	88.11	357.89	12,491.6	775.1	-475.4	1.29	1.29	0.07	-10.3	-25.4
13,355.0	88.29	357.91	12,492.0	789.0	-475.9	1.29	1.29	0.14	-9.8	-25.0
13,369.0	88.47	357.93	12,492.4	803.0	-476.4	1.29	1.29	0.14	-9.3	-24.6
13,382.0	88.65	357.96	12,492.7	816.0	-476.9	1.40	1.38	0.23	-8.9	-24.2
13,396.0	88.83	357.98	12,493.1	830.0	-477.4	1.29	1.29	0.14	-8.5	-23.8
13,410.0	89.00	357.98	12,493.3	844.0	-477.9	1.21	1.21	0.00	-8.1	-23.5



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)	
13,423.0	89.17	357.98	12,493.5	857.0	-478.3	1.31	1.31	0.00	-7.8	-23.1	
13,437.0	89.33	357.97	12,493.7	871.0	-478.8	1.15	1.14	-0.07	-7.6	-22.7	
13,450.0	89.49	357.95	12,493.8	884.0	-479.3	1.24	1.23	-0.15	-7.4	-22.3	
13,464.0	89.64	357.93	12,493.9	897.9	-479.8	1.08	1.07	-0.14	-7.2	-21.9	
13,477.0	89.79	357.91	12,494.0	910.9	-480.3	1.16	1.15	-0.15	-7.0	-21.5	
13,491.0	89.92	357.88	12,494.0	924.9	-480.8	0.95	0.93	-0.21	-6.9	-21.1	
13,505.0	90.04	357.84	12,494.1	938.9	-481.3	0.90	0.86	-0.29	-6.8	-20.7	
13,518.0	90.15	357.80	12,494.0	951.9	-481.8	0.90	0.85	-0.31	-6.7	-20.3	
13,532.0	90.26	357.75	12,494.0	965.9	-482.3	0.86	0.79	-0.36	-6.7	-19.8	
13,546.0	90.38	357.69	12,493.9	979.9	-482.9	0.96	0.86	-0.43	-6.7	-19.4	
13,560.0	90.51	357.62	12,493.8	993.9	-483.5	1.05	0.93	-0.50	-6.7	-18.9	
13,573.0	90.68	357.53	12,493.7	1,006.9	-484.0	1.48	1.31	-0.69	-6.8	-18.5	
13,587.0	90.89	357.41	12,493.5	1,020.8	-484.6	1.73	1.50	-0.86	-6.9	-17.9	
13,601.0	91.19	357.25	12,493.2	1,034.8	-485.3	2.43	2.14	-1.14	-7.0	-17.4	
13,614.0	91.51	357.07	12,492.9	1,047.8	-485.9	2.82	2.46	-1.38	-7.3	-16.8	
13,628.0	91.54	357.06	12,492.5	1,061.8	-486.7	0.23	0.21	-0.07	-7.6	-16.2	
13,641.0	90.82	357.51	12,492.3	1,074.8	-487.3	6.53	-5.54	3.46	-7.7	-15.7	
13,655.0	90.87	357.45	12,492.1	1,088.8	-487.9	0.56	0.36	-0.43	-7.9	-15.2	
13,668.0	91.06	358.06	12,491.8	1,101.7	-488.4	4.91	1.46	4.69	-8.0	-14.8	
13,682.0	90.49	358.74	12,491.7	1,115.7	-488.8	6.34	-4.07	4.86	-8.1	-14.5	
13,696.0	90.68	358.46	12,491.5	1,129.7	-489.1	2.42	1.36	-2.00	-8.1	-14.2	
13,710.0	90.85	358.16	12,491.3	1,143.7	-489.5	2.46	1.21	-2.14	-8.2	-13.9	
13,724.0	91.01	357.85	12,491.1	1,157.7	-490.0	2.49	1.14	-2.21	-8.4	-13.5	
13,739.0	91.15	357.53	12,490.8	1,172.7	-490.6	2.33	0.93	-2.13	-8.6	-13.0	
13,753.0	91.27	357.22	12,490.5	1,186.7	-491.3	2.37	0.86	-2.21	-8.8	-12.5	
13,767.0	91.37	356.93	12,490.2	1,200.7	-492.0	2.19	0.71	-2.07	-9.0	-11.9	
13,781.0	90.43	356.26	12,490.0	1,214.6	-492.8	8.24	-6.71	-4.79	-9.1	-11.1	



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
13,795.0	89.76	355.54	12,490.0	1,228.6	-493.8	7.03	-4.79	-5.14	-9.1	-10.2
13,809.0	89.39	355.24	12,490.1	1,242.6	-494.9	3.40	-2.64	-2.14	-8.9	-9.2
13,823.0	89.33	355.02	12,490.2	1,256.5	-496.1	1.63	-0.43	-1.57	-8.6	-8.1
13,837.0	89.25	354.81	12,490.4	1,270.4	-497.4	1.61	-0.57	-1.50	-8.4	-7.0
13,852.0	89.20	354.61	12,490.6	1,285.4	-498.8	1.37	-0.33	-1.33	-8.1	-5.7
13,866.0	88.64	354.43	12,490.9	1,299.3	-500.1	4.20	-4.00	-1.29	-7.7	-4.4
13,880.0	88.42	354.98	12,491.2	1,313.2	-501.4	4.23	-1.57	3.93	-7.3	-3.3
13,894.0	88.07	355.72	12,491.6	1,327.2	-502.5	5.84	-2.50	5.29	-6.8	-2.2
13,908.0	88.18	355.56	12,492.1	1,341.1	-503.6	1.39	0.79	-1.14	-6.2	-1.3
13,922.0	88.31	355.41	12,492.5	1,355.1	-504.7	1.42	0.93	-1.07	-5.7	-0.3
13,936.0	88.46	355.28	12,492.9	1,369.0	-505.8	1.42	1.07	-0.93	-5.2	0.8
13,951.0	88.60	355.17	12,493.3	1,384.0	-507.1	1.19	0.93	-0.73	-4.7	1.9
13,965.0	89.07	355.91	12,493.6	1,397.9	-508.2	6.26	3.36	5.29	-4.4	2.9
13,979.0	89.29	356.72	12,493.8	1,411.9	-509.1	5.99	1.57	5.79	-4.1	3.7
13,993.0	88.94	357.65	12,494.0	1,425.9	-509.7	7.10	-2.50	6.64	-3.8	4.3
14,007.0	89.10	357.78	12,494.2	1,439.9	-510.3	1.47	1.14	0.93	-3.4	4.8
14,021.0	89.25	357.97	12,494.4	1,453.9	-510.8	1.73	1.07	1.36	-3.1	5.2
14,035.0	89.41	358.17	12,494.6	1,467.9	-511.3	1.83	1.14	1.43	-2.9	5.5
14,048.0	89.56	358.38	12,494.7	1,480.9	-511.7	1.99	1.15	1.62	-2.7	5.8
14,062.0	89.52	358.84	12,494.8	1,494.8	-512.0	3.30	-0.29	3.29	-2.5	6.1
14,076.0	89.54	358.87	12,495.0	1,508.8	-512.3	0.26	0.14	0.21	-2.3	6.3
14,090.0	89.33	358.81	12,495.1	1,522.8	-512.6	1.56	-1.50	-0.43	-2.1	6.4
14,104.0	89.38	358.88	12,495.3	1,536.8	-512.9	0.61	0.36	0.50	-1.8	6.6
14,118.0	89.41	358.90	12,495.4	1,550.8	-513.1	0.26	0.21	0.14	-1.6	6.8
14,133.0	89.44	358.89	12,495.6	1,565.8	-513.4	0.21	0.20	-0.07	-1.3	7.0
14,147.0	89.47	358.85	12,495.7	1,579.8	-513.7	0.36	0.21	-0.29	-1.1	7.2
14,161.0	89.54	358.79	12,495.8	1,593.8	-514.0	0.66	0.50	-0.43	-0.9	7.4

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
14,175.0	89.65	358.70	12,495.9	1,607.8	-514.3	1.02	0.79	-0.64	-0.7	7.6
14,188.0	89.80	358.59	12,496.0	1,620.8	-514.6	1.43	1.15	-0.85	-0.6	7.8
14,202.0	89.95	358.47	12,496.0	1,634.8	-515.0	1.37	1.07	-0.86	-0.5	8.0
14,215.0	90.11	358.34	12,496.0	1,647.8	-515.3	1.59	1.23	-1.00	-0.4	8.3
14,229.0	90.26	358.21	12,495.9	1,661.8	-515.8	1.42	1.07	-0.93	-0.3	8.6
14,242.0	90.16	358.27	12,495.9	1,674.8	-516.2	0.90	-0.77	0.46	-0.3	8.9
14,256.0	90.38	358.81	12,495.8	1,688.8	-516.5	4.16	1.57	3.86	-0.3	9.2
14,270.0	90.46	358.65	12,495.7	1,702.8	-516.8	1.28	0.57	-1.14	-0.3	9.4
14,283.0	90.52	358.48	12,495.6	1,715.8	-517.1	1.39	0.46	-1.31	-0.3	9.6
14,297.0	90.57	358.31	12,495.5	1,729.8	-517.5	1.27	0.36	-1.21	-0.4	9.9
14,310.0	90.61	358.16	12,495.4	1,742.8	-517.9	1.19	0.31	-1.15	-0.4	10.2
14,324.0	90.65	358.05	12,495.2	1,756.8	-518.4	0.84	0.29	-0.79	-0.5	10.6
14,337.0	90.69	357.99	12,495.0	1,769.8	-518.9	0.55	0.31	-0.46	-0.5	11.0
14,351.0	90.97	358.64	12,494.8	1,783.7	-519.3	5.05	2.00	4.64	-0.7	11.3
14,365.0	91.12	359.01	12,494.6	1,797.7	-519.5	2.85	1.07	2.64	-0.8	11.5
14,378.0	91.18	359.21	12,494.3	1,810.7	-519.8	1.61	0.46	1.54	-1.0	11.6
14,392.0	91.23	359.45	12,494.0	1,824.7	-519.9	1.75	0.36	1.71	-1.2	11.6
14,405.0	91.29	359.69	12,493.7	1,837.7	-520.0	1.90	0.46	1.85	-1.4	11.6
14,419.0	91.33	359.91	12,493.4	1,851.7	-520.1	1.60	0.29	1.57	-1.7	11.6
14,432.0	91.19	359.51	12,493.1	1,864.7	-520.1	3.26	-1.08	-3.08	-1.9	11.6
14,446.0	90.88	359.84	12,492.9	1,878.7	-520.2	3.23	-2.21	2.36	-2.0	11.5
14,460.0	89.98	0.48	12,492.8	1,892.7	-520.2	7.89	-6.43	4.57	-2.0	11.4
14,473.0	89.43	0.56	12,492.8	1,905.7	-520.0	4.28	-4.23	0.62	-1.9	11.2
14,487.0	89.34	0.40	12,493.0	1,919.7	-519.9	1.31	-0.64	-1.14	-1.6	11.0
14,501.0	89.23	0.23	12,493.2	1,933.7	-519.9	1.45	-0.79	-1.21	-1.4	10.8
14,515.0	89.09	0.06	12,493.4	1,947.7	-519.8	1.57	-1.00	-1.21	-1.1	10.7
14,528.0	88.94	359.95	12,493.6	1,960.7	-519.8	1.43	-1.15	-0.85	-0.8	10.6



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
14,542.0	88.77	359.93	12,493.9	1,974.7	-519.8	1.22	-1.21	-0.14	-0.4	10.5
14,556.0	88.57	0.08	12,494.2	1,988.7	-519.8	1.79	-1.43	1.07	0.0	10.4
14,569.0	88.36	0.32	12,494.6	2,001.7	-519.8	2.45	-1.62	1.85	0.4	10.2
14,583.0	88.14	0.62	12,495.0	2,015.7	-519.7	2.66	-1.57	2.14	0.9	10.0
14,596.0	87.92	0.94	12,495.4	2,028.7	-519.5	2.99	-1.69	2.46	1.5	9.8
14,610.0	87.73	1.25	12,496.0	2,042.7	-519.2	2.60	-1.36	2.21	2.1	9.4
14,623.0	87.56	1.52	12,496.5	2,055.7	-518.9	2.45	-1.31	2.08	2.7	9.0
14,637.0	87.66	1.23	12,497.1	2,069.6	-518.6	2.19	0.71	-2.07	3.4	8.6
14,651.0	87.40	1.83	12,497.7	2,083.6	-518.2	4.67	-1.86	4.29	4.1	8.1
14,664.0	87.13	2.48	12,498.3	2,096.6	-517.7	5.41	-2.08	5.00	4.8	7.5
14,678.0	87.12	2.48	12,499.0	2,110.6	-517.1	0.07	-0.07	0.00	5.6	6.8
14,692.0	87.14	2.44	12,499.7	2,124.5	-516.5	0.32	0.14	-0.29	6.4	6.1
14,706.0	87.16	2.39	12,500.4	2,138.5	-515.9	0.38	0.14	-0.36	7.1	5.4
14,719.0	87.19	2.32	12,501.0	2,151.5	-515.4	0.59	0.23	-0.54	7.9	4.8
14,733.0	87.23	2.24	12,501.7	2,165.5	-514.8	0.64	0.29	-0.57	8.6	4.1
14,747.0	87.26	2.16	12,502.4	2,179.4	-514.3	0.61	0.21	-0.57	9.4	3.5
14,760.0	87.29	2.08	12,503.0	2,192.4	-513.8	0.66	0.23	-0.62	10.1	2.9
14,774.0	87.34	2.01	12,503.7	2,206.4	-513.3	0.61	0.36	-0.50	10.8	2.3
14,787.0	87.39	1.95	12,504.3	2,219.4	-512.9	0.60	0.38	-0.46	11.5	1.8
14,801.0	87.47	1.92	12,504.9	2,233.3	-512.4	0.61	0.57	-0.21	12.2	1.2
14,814.0	87.37	2.21	12,505.5	2,246.3	-511.9	2.36	-0.77	2.23	12.9	0.7
14,828.0	87.88	2.06	12,506.1	2,260.3	-511.4	3.80	3.64	-1.07	13.6	0.0
14,842.0	88.09	2.23	12,506.6	2,274.3	-510.9	1.93	1.50	1.21	14.1	-0.6
14,855.0	88.33	2.45	12,507.0	2,287.3	-510.4	2.50	1.85	1.69	14.6	-1.2
14,869.0	88.59	2.69	12,507.3	2,301.2	-509.7	2.53	1.86	1.71	15.1	-1.9
14,883.0	88.87	2.90	12,507.6	2,315.2	-509.0	2.50	2.00	1.50	15.5	-2.7
14,897.0	89.13	3.07	12,507.9	2,329.2	-508.3	2.22	1.86	1.21	15.8	-3.5



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
14,910.0	90.13	2.95	12,508.0	2,342.2	-507.6	7.75	7.69	-0.92	16.0	-4.3
14,924.0	91.70	2.80	12,507.8	2,356.2	-506.9	11.27	11.21	-1.07	15.9	-5.1
14,938.0	92.16	2.67	12,507.3	2,370.1	-506.3	3.41	3.29	-0.93	15.5	-5.9
14,951.0	92.43	2.48	12,506.8	2,383.1	-505.7	2.54	2.08	-1.46	15.0	-6.6
14,965.0	92.70	2.25	12,506.1	2,397.1	-505.1	2.53	1.93	-1.64	14.5	-7.2
14,978.0	92.96	2.02	12,505.5	2,410.1	-504.6	2.67	2.00	-1.77	13.9	-7.8
14,992.0	93.21	1.81	12,504.7	2,424.0	-504.1	2.33	1.79	-1.50	13.3	-8.4
15,005.0	92.59	2.05	12,504.1	2,437.0	-503.7	5.11	-4.77	1.85	12.7	-8.9
15,019.0	92.04	2.27	12,503.5	2,451.0	-503.2	4.23	-3.93	1.57	12.2	-9.5
15,033.0	92.21	2.21	12,503.0	2,465.0	-502.6	1.29	1.21	-0.43	11.8	-10.2
15,046.0	92.38	2.19	12,502.5	2,477.9	-502.1	1.32	1.31	-0.15	11.4	-10.8
15,060.0	92.52	2.17	12,501.9	2,491.9	-501.6	1.01	1.00	-0.14	10.9	-11.4
15,074.0	92.65	2.15	12,501.2	2,505.9	-501.1	0.94	0.93	-0.14	10.3	-12.0
15,088.0	92.75	2.12	12,500.6	2,519.9	-500.6	0.75	0.71	-0.21	9.8	-12.6
15,101.0	92.64	1.93	12,500.0	2,532.8	-500.1	1.69	-0.85	-1.46	9.2	-13.2
15,115.0	92.52	1.74	12,499.3	2,546.8	-499.7	1.60	-0.86	-1.36	8.7	-13.7
15,129.0	92.47	1.54	12,498.7	2,560.8	-499.3	1.47	-0.36	-1.43	8.2	-14.2
15,142.0	91.35	0.83	12,498.3	2,573.8	-499.0	10.20	-8.62	-5.46	7.8	-14.6
15,156.0	89.54	359.97	12,498.2	2,587.8	-498.9	14.31	-12.93	-6.14	7.8	-14.8
15,170.0	89.41	359.67	12,498.3	2,601.8	-498.9	2.34	-0.93	-2.14	8.0	-14.9
15,184.0	89.26	359.34	12,498.5	2,615.8	-499.1	2.59	-1.07	-2.36	8.2	-14.8
15,197.0	89.13	359.03	12,498.7	2,628.8	-499.2	2.59	-1.00	-2.38	8.5	-14.7
15,211.0	89.05	358.76	12,498.9	2,642.8	-499.5	2.01	-0.57	-1.93	8.8	-14.6
15,225.0	89.05	358.56	12,499.1	2,656.8	-499.8	1.43	0.00	-1.43	9.1	-14.3
15,238.0	89.12	358.42	12,499.3	2,669.8	-500.2	1.20	0.54	-1.08	9.4	-14.1
15,252.0	89.21	358.31	12,499.5	2,683.8	-500.6	1.02	0.64	-0.79	9.7	-13.8
15,266.0	89.32	358.21	12,499.7	2,697.8	-501.0	1.06	0.79	-0.71	10.0	-13.5

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
15,280.0	89.44	358.12	12,499.9	2,711.8	-501.4	1.07	0.86	-0.64	10.2	-13.1
15,293.0	89.55	358.03	12,500.0	2,724.7	-501.9	1.09	0.85	-0.69	10.4	-12.8
15,307.0	89.64	357.92	12,500.1	2,738.7	-502.4	1.02	0.64	-0.79	10.6	-12.4
15,321.0	89.70	357.78	12,500.2	2,752.7	-502.9	1.09	0.43	-1.00	10.8	-12.0
15,334.0	89.73	357.63	12,500.2	2,765.7	-503.4	1.18	0.23	-1.15	10.9	-11.5
15,348.0	89.76	357.47	12,500.3	2,779.7	-504.0	1.16	0.21	-1.14	11.1	-11.0
15,362.0	89.79	357.32	12,500.3	2,793.7	-504.7	1.09	0.21	-1.07	11.2	-10.5
15,376.0	89.82	357.19	12,500.4	2,807.7	-505.3	0.95	0.21	-0.93	11.4	-9.9
15,389.0	89.88	357.10	12,500.4	2,820.7	-506.0	0.83	0.46	-0.69	11.5	-9.4
15,403.0	89.97	357.06	12,500.4	2,834.6	-506.7	0.70	0.64	-0.29	11.6	-8.7
15,417.0	90.12	357.11	12,500.4	2,848.6	-507.4	1.13	1.07	0.36	11.7	-8.1
15,430.0	90.30	357.22	12,500.4	2,861.6	-508.0	1.62	1.38	0.85	11.7	-7.6
15,444.0	90.49	357.34	12,500.3	2,875.6	-508.7	1.61	1.36	0.86	11.7	-7.0
15,458.0	90.66	357.46	12,500.1	2,889.6	-509.3	1.49	1.21	0.86	11.6	-6.5
15,472.0	90.84	357.62	12,500.0	2,903.6	-509.9	1.72	1.29	1.14	11.5	-6.0
15,485.0	91.47	358.73	12,499.7	2,916.5	-510.4	9.82	4.85	8.54	11.4	-5.7
15,499.0	91.10	0.79	12,499.4	2,930.5	-510.4	14.95	-2.64	14.71	11.1	-5.7
15,513.0	91.10	1.64	12,499.1	2,944.5	-510.1	6.07	0.00	6.07	11.0	-6.1
15,526.0	91.00	1.59	12,498.9	2,957.5	-509.8	0.86	-0.77	-0.38	10.8	-6.6
15,540.0	90.88	1.54	12,498.6	2,971.5	-509.4	0.93	-0.86	-0.36	10.7	-7.0
15,553.0	90.74	1.47	12,498.5	2,984.5	-509.0	1.20	-1.08	-0.54	10.6	-7.5
15,567.0	90.61	1.41	12,498.3	2,998.5	-508.7	1.02	-0.93	-0.43	10.6	-7.9
15,580.0	90.50	1.35	12,498.2	3,011.5	-508.4	0.96	-0.85	-0.46	10.6	-8.3
15,594.0	90.44	1.29	12,498.1	3,025.5	-508.0	0.61	-0.43	-0.43	10.6	-8.7
15,608.0	90.45	1.24	12,497.9	3,039.5	-507.7	0.36	0.07	-0.36	10.6	-9.2
15,621.0	90.51	1.21	12,497.8	3,052.5	-507.5	0.52	0.46	-0.23	10.6	-9.5
15,635.0	90.59	1.17	12,497.7	3,066.5	-507.2	0.64	0.57	-0.29	10.6	-9.9



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
15,648.0	90.69	1.12	12,497.6	3,079.5	-506.9	0.86	0.77	-0.38	10.6	-10.3
15,662.0	90.79	1.06	12,497.4	3,093.5	-506.6	0.83	0.71	-0.43	10.5	-10.6
15,675.0	90.88	0.99	12,497.2	3,106.5	-506.4	0.88	0.69	-0.54	10.5	-11.0
15,689.0	90.96	0.87	12,497.0	3,120.5	-506.2	1.03	0.57	-0.86	10.4	-11.3
15,703.0	91.00	0.71	12,496.7	3,134.5	-506.0	1.18	0.29	-1.14	10.3	-11.6
15,716.0	91.01	0.51	12,496.5	3,147.5	-505.8	1.54	0.08	-1.54	10.2	-11.8
15,730.0	91.01	0.30	12,496.3	3,161.5	-505.8	1.50	0.00	-1.50	10.1	-12.0
15,744.0	90.99	0.09	12,496.0	3,175.5	-505.7	1.51	-0.14	-1.50	9.9	-12.2
15,758.0	90.97	359.88	12,495.8	3,189.5	-505.7	1.51	-0.14	-1.50	9.8	-12.3
15,771.0	90.94	359.69	12,495.6	3,202.5	-505.8	1.48	-0.23	-1.46	9.7	-12.3
15,785.0	90.90	359.53	12,495.3	3,216.5	-505.9	1.18	-0.29	-1.14	9.6	-12.3
15,799.0	90.86	359.43	12,495.1	3,230.5	-506.0	0.77	-0.29	-0.71	9.6	-12.3
15,812.0	90.81	359.37	12,494.9	3,243.5	-506.1	0.60	-0.38	-0.46	9.5	-12.2
15,826.0	90.76	359.33	12,494.7	3,257.5	-506.3	0.46	-0.36	-0.29	9.4	-12.2
15,840.0	90.72	359.31	12,494.5	3,271.5	-506.4	0.32	-0.29	-0.14	9.4	-12.1
15,854.0	90.68	359.28	12,494.4	3,285.5	-506.6	0.36	-0.29	-0.21	9.4	-12.0
15,867.0	90.64	359.26	12,494.2	3,298.4	-506.8	0.34	-0.31	-0.15	9.3	-12.0
15,881.0	90.63	359.21	12,494.1	3,312.4	-507.0	0.36	-0.07	-0.36	9.3	-11.9
15,895.0	90.64	359.15	12,493.9	3,326.4	-507.2	0.43	0.07	-0.43	9.3	-11.8
15,908.0	90.66	359.07	12,493.8	3,339.4	-507.4	0.63	0.15	-0.62	9.3	-11.7
15,922.0	90.70	358.98	12,493.6	3,353.4	-507.6	0.70	0.29	-0.64	9.2	-11.5
15,935.0	90.74	358.89	12,493.4	3,366.4	-507.8	0.76	0.31	-0.69	9.2	-11.4
15,949.0	90.78	358.80	12,493.3	3,380.4	-508.1	0.70	0.29	-0.64	9.1	-11.2
15,962.0	90.83	358.71	12,493.1	3,393.4	-508.4	0.79	0.38	-0.69	9.1	-11.0
15,976.0	90.87	358.64	12,492.9	3,407.4	-508.7	0.58	0.29	-0.50	9.0	-10.8
15,990.0	90.91	358.59	12,492.6	3,421.4	-509.1	0.46	0.29	-0.36	8.9	-10.5
16,003.0	90.96	358.55	12,492.4	3,434.4	-509.4	0.49	0.38	-0.31	8.8	-10.3



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
16,017.0	91.00	358.52	12,492.2	3,448.4	-509.8	0.36	0.29	-0.21	8.7	-10.0
16,031.0	91.03	358.49	12,491.9	3,462.4	-510.1	0.30	0.21	-0.21	8.6	-9.8
16,045.0	91.07	358.46	12,491.7	3,476.4	-510.5	0.36	0.29	-0.21	8.5	-9.5
16,058.0	90.76	359.56	12,491.5	3,489.4	-510.7	8.79	-2.38	8.46	8.4	-9.4
16,072.0	90.79	359.52	12,491.3	3,503.4	-510.8	0.36	0.21	-0.29	8.3	-9.4
16,086.0	90.82	359.46	12,491.1	3,517.4	-511.0	0.48	0.21	-0.43	8.3	-9.3
16,099.0	90.84	359.40	12,490.9	3,530.4	-511.1	0.49	0.15	-0.46	8.2	-9.3
16,113.0	90.86	359.34	12,490.7	3,544.4	-511.2	0.45	0.14	-0.43	8.1	-9.2
16,127.0	90.87	359.26	12,490.5	3,558.4	-511.4	0.58	0.07	-0.57	8.1	-9.2
16,141.0	90.88	359.18	12,490.3	3,572.4	-511.6	0.58	0.07	-0.57	8.0	-9.1
16,154.0	90.89	359.08	12,490.1	3,585.4	-511.8	0.77	0.08	-0.77	7.9	-9.0
16,168.0	90.90	358.97	12,489.9	3,599.4	-512.0	0.79	0.07	-0.79	7.8	-8.8
16,182.0	90.90	358.82	12,489.6	3,613.4	-512.3	1.07	0.00	-1.07	7.7	-8.7
16,195.0	90.89	358.67	12,489.4	3,626.4	-512.6	1.16	-0.08	-1.15	7.7	-8.5
16,209.0	90.88	358.51	12,489.2	3,640.4	-512.9	1.14	-0.07	-1.14	7.6	-8.2
16,223.0	90.87	358.35	12,489.0	3,654.3	-513.3	1.14	-0.07	-1.14	7.5	-7.9
16,237.0	90.85	358.21	12,488.8	3,668.3	-513.7	1.01	-0.14	-1.00	7.4	-7.6
16,250.0	90.83	358.08	12,488.6	3,681.3	-514.2	1.01	-0.15	-1.00	7.3	-7.3
16,264.0	90.80	357.99	12,488.4	3,695.3	-514.6	0.68	-0.21	-0.64	7.3	-6.9
16,278.0	90.76	357.96	12,488.2	3,709.3	-515.1	0.36	-0.29	-0.21	7.2	-6.5
16,291.0	90.71	357.96	12,488.0	3,722.3	-515.6	0.38	-0.38	0.00	7.2	-6.1
16,305.0	90.67	357.99	12,487.9	3,736.3	-516.1	0.36	-0.29	0.21	7.1	-5.7
16,319.0	90.62	358.03	12,487.7	3,750.3	-516.6	0.46	-0.36	0.29	7.1	-5.4
16,333.0	90.58	358.08	12,487.6	3,764.3	-517.1	0.46	-0.29	0.36	7.1	-5.0
16,346.0	90.10	359.21	12,487.5	3,777.3	-517.4	9.44	-3.69	8.69	7.2	-4.8
16,360.0	89.89	359.64	12,487.5	3,791.3	-517.5	3.42	-1.50	3.07	7.3	-4.7
16,374.0	89.86	359.71	12,487.5	3,805.3	-517.6	0.54	-0.21	0.50	7.5	-4.7



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
16,387.0	89.85	359.78	12,487.6	3,818.3	-517.6	0.54	-0.08	0.54	7.6	-4.8
16,401.0	89.84	359.86	12,487.6	3,832.3	-517.7	0.58	-0.07	0.57	7.8	-4.8
16,414.0	89.82	359.95	12,487.6	3,845.3	-517.7	0.71	-0.15	0.69	7.9	-4.9
16,428.0	89.81	0.03	12,487.7	3,859.3	-517.7	0.58	-0.07	0.57	8.1	-5.0
16,441.0	89.79	0.12	12,487.7	3,872.3	-517.7	0.71	-0.15	0.69	8.3	-5.1
16,455.0	89.77	0.21	12,487.8	3,886.3	-517.6	0.66	-0.14	0.64	8.5	-5.3
16,469.0	89.74	0.30	12,487.8	3,900.3	-517.6	0.68	-0.21	0.64	8.7	-5.4
16,482.0	89.70	0.39	12,487.9	3,913.3	-517.5	0.76	-0.31	0.69	8.9	-5.6
16,496.0	89.65	0.48	12,488.0	3,927.3	-517.4	0.74	-0.36	0.64	9.1	-5.8
16,510.0	89.61	0.55	12,488.1	3,941.3	-517.3	0.58	-0.29	0.50	9.3	-6.0
16,524.0	89.56	0.60	12,488.2	3,955.3	-517.1	0.51	-0.36	0.36	9.5	-6.3
16,537.0	89.52	0.63	12,488.3	3,968.3	-517.0	0.38	-0.31	0.23	9.8	-6.5
16,551.0	89.48	0.61	12,488.4	3,982.3	-516.8	0.32	-0.29	-0.14	10.0	-6.7
16,565.0	89.45	0.52	12,488.5	3,996.3	-516.7	0.68	-0.21	-0.64	10.3	-7.0
16,578.0	89.42	0.39	12,488.7	4,009.3	-516.6	1.03	-0.23	-1.00	10.5	-7.2
16,592.0	89.39	0.23	12,488.8	4,023.3	-516.5	1.16	-0.21	-1.14	10.8	-7.3
16,606.0	89.37	0.06	12,489.0	4,037.3	-516.5	1.22	-0.14	-1.21	11.1	-7.5
16,620.0	89.34	359.88	12,489.1	4,051.3	-516.5	1.30	-0.21	-1.29	11.4	-7.6
16,633.0	89.31	359.70	12,489.3	4,064.3	-516.5	1.40	-0.23	-1.38	11.7	-7.6
16,647.0	89.28	359.52	12,489.4	4,078.3	-516.6	1.30	-0.21	-1.29	12.0	-7.6
16,661.0	89.23	359.36	12,489.6	4,092.2	-516.8	1.20	-0.36	-1.14	12.3	-7.6
16,674.0	89.19	359.22	12,489.8	4,105.2	-516.9	1.12	-0.31	-1.08	12.6	-7.5
16,688.0	89.15	359.08	12,490.0	4,119.2	-517.1	1.04	-0.29	-1.00	12.9	-7.4
16,702.0	89.11	358.95	12,490.2	4,133.2	-517.4	0.97	-0.29	-0.93	13.3	-7.3
16,716.0	89.09	358.82	12,490.4	4,147.2	-517.7	0.94	-0.14	-0.93	13.6	-7.1
16,729.0	89.10	358.70	12,490.6	4,160.2	-517.9	0.93	0.08	-0.92	13.9	-6.9
16,743.0	89.14	358.58	12,490.9	4,174.2	-518.3	0.90	0.29	-0.86	14.3	-6.7



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
16,757.0	89.25	358.48	12,491.1	4,188.2	-518.6	1.06	0.79	-0.71	14.6	-6.4
16,770.0	89.38	358.37	12,491.2	4,201.2	-519.0	1.31	1.00	-0.85	14.9	-6.1
16,784.0	89.54	358.28	12,491.3	4,215.2	-519.4	1.31	1.14	-0.64	15.2	-5.8
16,798.0	89.70	358.18	12,491.4	4,229.2	-519.8	1.35	1.14	-0.71	15.4	-5.5
16,812.0	89.85	358.08	12,491.5	4,243.2	-520.3	1.29	1.07	-0.71	15.6	-5.1
16,825.0	90.06	359.02	12,491.5	4,256.2	-520.6	7.41	1.62	7.23	15.7	-4.9
16,839.0	90.23	359.56	12,491.5	4,270.2	-520.8	4.04	1.21	3.86	15.8	-4.8
16,853.0	90.34	359.45	12,491.4	4,284.2	-520.9	1.11	0.79	-0.79	15.9	-4.8
16,866.0	90.44	359.33	12,491.3	4,297.2	-521.0	1.20	0.77	-0.92	15.9	-4.8
16,880.0	90.53	359.21	12,491.2	4,311.2	-521.2	1.07	0.64	-0.86	15.9	-4.7
16,894.0	90.61	359.08	12,491.0	4,325.2	-521.4	1.09	0.57	-0.93	15.9	-4.6
16,908.0	90.69	358.95	12,490.9	4,339.2	-521.7	1.09	0.57	-0.93	15.9	-4.4
16,921.0	90.75	358.81	12,490.7	4,352.2	-521.9	1.17	0.46	-1.08	15.9	-4.3
16,935.0	90.78	358.66	12,490.5	4,366.2	-522.2	1.09	0.21	-1.07	15.8	-4.1
16,949.0	90.79	358.49	12,490.3	4,380.2	-522.6	1.22	0.07	-1.21	15.7	-3.8
16,962.0	90.77	358.31	12,490.2	4,393.2	-523.0	1.39	-0.15	-1.38	15.7	-3.5
16,976.0	90.74	358.13	12,490.0	4,407.2	-523.4	1.30	-0.21	-1.29	15.6	-3.2
16,990.0	90.70	357.95	12,489.8	4,421.1	-523.9	1.32	-0.29	-1.29	15.6	-2.8
17,004.0	90.65	357.78	12,489.6	4,435.1	-524.4	1.27	-0.36	-1.21	15.6	-2.4
17,017.0	90.63	358.12	12,489.5	4,448.1	-524.9	2.62	-0.15	2.62	15.5	-2.0
17,031.0	90.60	358.24	12,489.4	4,462.1	-525.3	0.88	-0.21	0.86	15.5	-1.7
17,045.0	90.53	358.07	12,489.2	4,476.1	-525.7	1.31	-0.50	-1.21	15.5	-1.3
17,058.0	90.47	357.91	12,489.1	4,489.1	-526.2	1.31	-0.46	-1.23	15.5	-1.0
17,072.0	90.40	357.74	12,489.0	4,503.1	-526.7	1.31	-0.50	-1.21	15.6	-0.5
17,085.0	90.33	357.60	12,488.9	4,516.1	-527.3	1.20	-0.54	-1.08	15.6	-0.1
17,099.0	90.28	357.47	12,488.8	4,530.1	-527.9	0.99	-0.36	-0.93	15.7	0.4
17,112.0	90.23	357.37	12,488.8	4,543.0	-528.4	0.86	-0.38	-0.77	15.7	0.9

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)	
17,126.0	90.21	357.31	12,488.7	4,557.0	-529.1	0.45	-0.14	-0.43	15.8	1.4	
17,140.0	90.22	357.33	12,488.7	4,571.0	-529.8	0.16	0.07	0.14	15.9	2.0	
17,153.0	90.25	357.39	12,488.6	4,584.0	-530.4	0.52	0.23	0.46	16.0	2.5	
17,167.0	90.30	357.47	12,488.6	4,598.0	-531.0	0.67	0.36	0.57	16.0	3.0	
17,180.0	90.35	357.57	12,488.5	4,611.0	-531.5	0.86	0.38	0.77	16.1	3.5	
17,194.0	90.41	357.67	12,488.4	4,625.0	-532.1	0.83	0.43	0.71	16.1	4.0	
17,207.0	90.39	358.02	12,488.3	4,638.0	-532.6	2.70	-0.15	2.69	16.1	4.4	
17,221.0	90.39	358.29	12,488.2	4,651.9	-533.1	1.93	0.00	1.93	16.2	4.7	
17,235.0	90.46	358.36	12,488.1	4,665.9	-533.5	0.71	0.50	0.50	16.2	5.0	
17,248.0	90.54	358.41	12,488.0	4,678.9	-533.8	0.73	0.62	0.38	16.2	5.3	
17,262.0	90.61	358.45	12,487.8	4,692.9	-534.2	0.58	0.50	0.29	16.2	5.6	
17,276.0	90.67	358.48	12,487.7	4,706.9	-534.6	0.48	0.43	0.21	16.2	5.9	
17,290.0	90.72	358.51	12,487.5	4,720.9	-535.0	0.42	0.36	0.21	16.1	6.1	
17,303.0	90.76	358.53	12,487.3	4,733.9	-535.3	0.34	0.31	0.15	16.1	6.4	
17,317.0	90.77	358.54	12,487.2	4,747.9	-535.7	0.10	0.07	0.07	16.1	6.6	
17,331.0	90.73	358.53	12,487.0	4,761.9	-536.0	0.29	-0.29	-0.07	16.0	6.9	
17,344.0	90.66	358.52	12,486.8	4,774.9	-536.4	0.54	-0.54	-0.08	16.0	7.1	
17,358.0	90.57	358.49	12,486.7	4,788.9	-536.7	0.68	-0.64	-0.21	15.9	7.4	
17,372.0	90.48	358.46	12,486.5	4,802.9	-537.1	0.68	-0.64	-0.21	16.0	7.7	
17,386.0	90.39	358.41	12,486.4	4,816.9	-537.5	0.74	-0.64	-0.36	16.0	8.0	
17,399.0	90.29	358.35	12,486.4	4,829.9	-537.8	0.90	-0.77	-0.46	16.0	8.2	
17,413.0	90.21	358.27	12,486.3	4,843.9	-538.3	0.81	-0.57	-0.57	16.1	8.6	
17,427.0	90.14	358.16	12,486.3	4,857.9	-538.7	0.93	-0.50	-0.79	16.2	8.9	
17,440.0	90.09	358.04	12,486.2	4,870.9	-539.1	1.00	-0.38	-0.92	16.3	9.2	
17,454.0	90.05	357.91	12,486.2	4,884.8	-539.6	0.97	-0.29	-0.93	16.4	9.6	
17,468.0	90.05	357.80	12,486.2	4,898.8	-540.1	0.79	0.00	-0.79	16.5	10.1	
17,482.0	90.10	357.72	12,486.2	4,912.8	-540.7	0.67	0.36	-0.57	16.6	10.5	



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
17,495.0	90.20	357.68	12,486.1	4,925.8	-541.2	0.83	0.77	-0.31	16.7	10.9
17,509.0	90.39	357.73	12,486.1	4,939.8	-541.8	1.40	1.36	0.36	16.8	11.4
17,523.0	90.73	357.90	12,485.9	4,953.8	-542.3	2.72	2.43	1.21	16.8	11.8
17,536.0	91.15	358.14	12,485.7	4,966.8	-542.8	3.72	3.23	1.85	16.7	12.2
17,550.0	91.60	358.42	12,485.4	4,980.8	-543.2	3.79	3.21	2.00	16.5	12.5
17,564.0	92.04	358.69	12,484.9	4,994.8	-543.5	3.69	3.14	1.93	16.2	12.8
17,578.0	92.44	358.99	12,484.4	5,008.7	-543.8	3.57	2.86	2.14	15.8	13.0
17,591.0	92.53	0.11	12,483.8	5,021.7	-543.9	8.64	0.69	8.62	15.3	13.0
17,605.0	92.69	0.56	12,483.2	5,035.7	-543.8	3.41	1.14	3.21	14.8	12.8
17,619.0	92.85	0.62	12,482.5	5,049.7	-543.7	1.22	1.14	0.43	14.3	12.5
17,632.0	92.94	0.64	12,481.9	5,062.7	-543.5	0.71	0.69	0.15	13.7	12.3
17,646.0	92.99	0.62	12,481.1	5,076.7	-543.4	0.38	0.36	-0.14	13.1	12.1
17,659.0	93.01	0.59	12,480.5	5,089.6	-543.2	0.28	0.15	-0.23	12.6	11.8
17,673.0	92.99	0.55	12,479.7	5,103.6	-543.1	0.32	-0.14	-0.29	12.1	11.6
17,686.0	92.95	0.52	12,479.0	5,116.6	-543.0	0.38	-0.31	-0.23	11.6	11.4
17,700.0	92.87	0.50	12,478.3	5,130.6	-542.9	0.59	-0.57	-0.14	11.2	11.2
17,714.0	92.75	0.50	12,477.7	5,144.6	-542.7	0.86	-0.86	0.00	10.7	10.9
17,727.0	92.61	0.52	12,477.0	5,157.6	-542.6	1.09	-1.08	0.15	10.3	10.7
17,741.0	92.47	0.53	12,476.4	5,171.5	-542.5	1.00	-1.00	0.07	9.9	10.5
17,755.0	92.34	0.53	12,475.8	5,185.5	-542.4	0.93	-0.93	0.00	9.5	10.3
17,769.0	92.13	0.47	12,475.3	5,199.5	-542.2	1.56	-1.50	-0.43	9.2	10.0
17,782.0	91.25	0.20	12,474.9	5,212.5	-542.2	7.08	-6.77	-2.08	9.1	9.9
17,796.0	91.16	0.05	12,474.6	5,226.5	-542.1	1.25	-0.64	-1.07	9.0	9.7
17,810.0	91.25	359.83	12,474.3	5,240.5	-542.2	1.70	0.64	-1.57	8.9	9.7
17,823.0	91.39	359.55	12,474.0	5,253.5	-542.2	2.41	1.08	-2.15	8.8	9.6
17,837.0	91.55	359.25	12,473.7	5,267.5	-542.4	2.43	1.14	-2.14	8.7	9.7
17,851.0	91.71	358.96	12,473.3	5,281.5	-542.6	2.37	1.14	-2.07	8.5	9.8



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	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)
17,865.0	91.79	358.79	12,472.8	5,295.5	-542.9	1.34	0.57	-1.21	8.3	10.0
17,878.0	91.05	359.87	12,472.5	5,308.5	-543.0	10.07	-5.69	8.31	8.2	10.0
17,892.0	90.83	0.14	12,472.3	5,322.5	-543.0	2.49	-1.57	1.93	8.2	9.9
17,906.0	90.83	0.02	12,472.1	5,336.5	-543.0	0.86	0.00	-0.86	8.2	9.8
17,919.0	90.79	359.92	12,471.9	5,349.5	-543.0	0.83	-0.31	-0.77	8.2	9.7
17,933.0	90.73	359.85	12,471.7	5,363.5	-543.0	0.66	-0.43	-0.50	8.3	9.7
17,946.0	90.67	359.79	12,471.6	5,376.5	-543.1	0.65	-0.46	-0.46	8.3	9.6
17,960.0	90.60	359.73	12,471.4	5,390.5	-543.1	0.66	-0.50	-0.43	8.4	9.6
17,973.0	90.55	359.68	12,471.3	5,403.5	-543.2	0.54	-0.38	-0.38	8.5	9.5
17,987.0	90.53	359.62	12,471.1	5,417.5	-543.3	0.45	-0.14	-0.43	8.6	9.5
18,001.0	90.54	359.54	12,471.0	5,431.5	-543.4	0.58	0.07	-0.57	8.7	9.5
18,014.0	90.59	359.46	12,470.9	5,444.5	-543.5	0.73	0.38	-0.62	8.8	9.6
18,028.0	90.66	359.38	12,470.7	5,458.5	-543.6	0.76	0.50	-0.57	8.8	9.6
18,042.0	90.76	359.31	12,470.5	5,472.5	-543.8	0.87	0.71	-0.50	8.9	9.7
18,056.0	90.88	359.27	12,470.3	5,486.5	-544.0	0.90	0.86	-0.29	8.9	9.7
18,069.0	91.04	359.26	12,470.1	5,499.5	-544.1	1.23	1.23	-0.08	8.9	9.8
18,083.0	91.24	359.30	12,469.9	5,513.5	-544.3	1.46	1.43	0.29	8.8	9.9
18,097.0	91.51	359.43	12,469.5	5,527.4	-544.5	2.14	1.93	0.93	8.7	9.9
18,110.0	91.81	359.61	12,469.1	5,540.4	-544.6	2.69	2.31	1.38	8.6	10.0
18,124.0	92.12	359.80	12,468.7	5,554.4	-544.7	2.60	2.21	1.36	8.3	9.9
18,138.0	92.43	359.99	12,468.1	5,568.4	-544.7	2.60	2.21	1.36	8.0	9.9
18,152.0	92.70	0.15	12,467.5	5,582.4	-544.7	2.24	1.93	1.14	7.6	9.7
18,165.0	92.44	0.35	12,466.9	5,595.4	-544.6	2.52	-2.00	1.54	7.2	9.6
18,179.0	92.29	0.47	12,466.3	5,609.4	-544.5	1.37	-1.07	0.86	6.8	9.4
18,193.0	92.35	0.47	12,465.7	5,623.4	-544.4	0.43	0.43	0.00	6.5	9.2
18,206.0	91.91	0.79	12,465.3	5,636.4	-544.2	4.18	-3.38	2.46	6.2	8.9
18,220.0	90.68	1.17	12,465.0	5,650.4	-544.0	9.20	-8.79	2.71	6.1	8.6



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	PEDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
18,233.0	89.45	1.62	12,464.9	5,663.4	-543.7	10.07	-9.46	3.46	6.3	8.2
18,247.0	89.10	1.63	12,465.1	5,677.3	-543.3	2.50	-2.50	0.07	6.7	7.7
18,260.0	89.01	1.40	12,465.3	5,690.3	-543.0	1.90	-0.69	-1.77	7.2	7.3
18,274.0	88.91	1.19	12,465.6	5,704.3	-542.6	1.66	-0.71	-1.50	7.6	6.8
18,289.0	88.82	1.07	12,465.9	5,719.3	-542.3	1.00	-0.60	-0.80	8.2	6.4
18,303.0	88.73	0.99	12,466.2	5,733.3	-542.1	0.86	-0.64	-0.57	8.7	6.1
18,318.0	88.66	0.96	12,466.5	5,748.3	-541.8	0.51	-0.47	-0.20	9.3	5.7
18,333.0	88.59	0.96	12,466.9	5,763.3	-541.6	0.47	-0.47	0.00	9.9	5.4
18,347.0	88.52	0.97	12,467.2	5,777.3	-541.3	0.51	-0.50	0.07	10.5	5.0
18,362.0	88.46	0.99	12,467.6	5,792.3	-541.1	0.42	-0.40	0.13	11.1	4.7
18,377.0	88.40	1.02	12,468.0	5,807.3	-540.8	0.45	-0.40	0.20	11.7	4.3
18,392.0	88.34	1.06	12,468.5	5,822.3	-540.6	0.48	-0.40	0.27	12.4	3.9
18,406.0	88.30	1.11	12,468.9	5,836.3	-540.3	0.46	-0.29	0.36	13.0	3.6
18,421.0	88.26	1.16	12,469.3	5,851.3	-540.0	0.43	-0.27	0.33	13.7	3.2
18,436.0	88.24	1.21	12,469.8	5,866.2	-539.7	0.36	-0.13	0.33	14.4	2.8
18,450.0	88.23	1.28	12,470.2	5,880.2	-539.4	0.50	-0.07	0.50	15.1	2.4
18,465.0	88.25	1.35	12,470.7	5,895.2	-539.0	0.49	0.13	0.47	15.8	1.9
18,479.0	88.32	1.43	12,471.1	5,909.2	-538.7	0.76	0.50	0.57	16.4	1.5
18,492.0	88.40	1.51	12,471.5	5,922.2	-538.4	0.87	0.62	0.62	17.0	1.0
18,506.0	88.51	1.60	12,471.8	5,936.2	-538.0	1.02	0.79	0.64	17.6	0.6
18,519.0	88.62	1.68	12,472.2	5,949.2	-537.6	1.05	0.85	0.62	18.2	0.1
18,533.0	88.74	1.77	12,472.5	5,963.2	-537.2	1.07	0.86	0.64	18.7	-0.4
18,546.0	88.86	1.85	12,472.8	5,976.2	-536.8	1.11	0.92	0.62	19.2	-0.9
18,560.0	88.97	1.92	12,473.0	5,990.2	-536.3	0.93	0.79	0.50	19.7	-1.5
18,574.0	89.08	1.96	12,473.3	6,004.1	-535.8	0.84	0.79	0.29	20.1	-2.1
18,587.0	89.17	2.00	12,473.5	6,017.1	-535.4	0.76	0.69	0.31	20.5	-2.6
18,601.0	89.27	2.03	12,473.7	6,031.1	-534.9	0.75	0.71	0.21	21.0	-3.2

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	PEDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
18,614.0	89.37	2.05	12,473.8	6,044.1	-534.4	0.78	0.77	0.15	21.3	-3.7	
18,628.0	89.48	2.07	12,474.0	6,058.1	-533.9	0.80	0.79	0.14	21.7	-4.3	
18,641.0	89.60	2.08	12,474.1	6,071.1	-533.5	0.93	0.92	0.08	22.0	-4.9	
18,655.0	89.74	2.08	12,474.1	6,085.1	-533.0	1.00	1.00	0.00	22.3	-5.5	
18,669.0	89.92	2.07	12,474.2	6,099.1	-532.5	1.29	1.29	-0.07	22.6	-6.1	
18,682.0	90.12	2.05	12,474.2	6,112.1	-532.0	1.55	1.54	-0.15	22.8	-6.7	
18,696.0	90.33	2.03	12,474.1	6,126.1	-531.5	1.51	1.50	-0.14	23.0	-7.3	
18,710.0	90.54	2.01	12,474.0	6,140.1	-531.0	1.51	1.50	-0.14	23.1	-7.9	
18,724.0	90.76	1.99	12,473.9	6,154.0	-530.5	1.58	1.57	-0.14	23.1	-8.5	
18,737.0	91.52	1.65	12,473.6	6,167.0	-530.1	6.40	5.85	-2.62	23.1	-9.0	
18,751.0	91.82	1.27	12,473.2	6,181.0	-529.7	3.46	2.14	-2.71	22.9	-9.4	
18,765.0	92.05	1.25	12,472.7	6,195.0	-529.4	1.65	1.64	-0.14	22.7	-9.8	
18,778.0	92.28	1.23	12,472.2	6,208.0	-529.1	1.78	1.77	-0.15	22.4	-10.2	
18,792.0	92.52	1.22	12,471.6	6,222.0	-528.8	1.72	1.71	-0.07	22.0	-10.6	
18,806.0	92.77	1.21	12,471.0	6,236.0	-528.5	1.79	1.79	-0.07	21.6	-11.0	
18,820.0	93.01	1.22	12,470.3	6,249.9	-528.3	1.72	1.71	0.07	21.1	-11.4	
18,833.0	93.25	1.24	12,469.6	6,262.9	-528.0	1.85	1.85	0.15	20.6	-11.8	
18,847.0	93.49	1.29	12,468.8	6,276.9	-527.7	1.75	1.71	0.36	20.0	-12.2	
18,861.0	93.71	1.39	12,467.9	6,290.9	-527.3	1.73	1.57	0.71	19.4	-12.6	
18,874.0	93.03	0.92	12,467.1	6,303.8	-527.1	6.36	-5.23	-3.62	18.8	-13.0	
18,888.0	92.05	0.19	12,466.5	6,317.8	-526.9	8.73	-7.00	-5.21	18.4	-13.2	
18,902.0	92.27	0.35	12,466.0	6,331.8	-526.9	1.94	1.57	1.14	18.1	-13.4	
18,916.0	92.48	0.51	12,465.4	6,345.8	-526.8	1.89	1.50	1.14	17.7	-13.6	
18,929.0	92.69	0.68	12,464.8	6,358.8	-526.6	2.08	1.62	1.31	17.4	-13.8	
18,943.0	92.89	0.83	12,464.1	6,372.8	-526.5	1.78	1.43	1.07	16.9	-14.1	
18,957.0	93.07	0.94	12,463.4	6,386.8	-526.2	1.51	1.29	0.79	16.4	-14.4	
18,970.0	93.23	1.03	12,462.7	6,399.7	-526.0	1.41	1.23	0.69	15.9	-14.7	

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	PEDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
18,984.0	92.26	1.07	12,462.0	6,413.7	-525.8	6.93	-6.93	0.29	15.5	-15.0
18,997.0	90.99	1.09	12,461.6	6,426.7	-525.5	9.77	-9.77	0.15	15.3	-15.4
19,011.0	89.59	1.00	12,461.6	6,440.7	-525.3	10.02	-10.00	-0.64	15.4	-15.7
19,024.0	89.25	0.99	12,461.7	6,453.7	-525.0	2.62	-2.62	-0.08	15.8	-16.1
19,038.0	89.37	1.04	12,461.9	6,467.7	-524.8	0.93	0.86	0.36	16.2	-16.4
19,134.0	90.47	1.69	12,462.0	6,563.7	-522.5	1.33	1.15	0.68	17.9	-19.4
19,230.0	89.39	359.67	12,462.1	6,659.7	-521.4	2.39	-1.12	-2.10	19.5	-21.2
19,325.0	90.23	0.42	12,462.4	6,754.7	-521.3	1.19	0.88	0.79	21.4	-21.9
19,421.0	90.13	358.34	12,462.1	6,850.6	-522.3	2.17	-0.10	-2.17	22.6	-21.6
19,517.0	89.69	357.03	12,462.3	6,946.6	-526.2	1.44	-0.46	-1.36	24.3	-18.4
19,612.0	90.63	357.27	12,462.0	7,041.4	-530.9	1.02	0.99	0.25	25.5	-14.4
19,708.0	91.49	357.34	12,460.2	7,137.3	-535.4	0.90	0.90	0.07	25.3	-10.5
19,803.0	89.38	359.93	12,459.5	7,232.3	-537.7	3.52	-2.22	2.73	26.1	-8.9
19,899.0	90.12	0.14	12,459.9	7,328.3	-537.6	0.80	0.77	0.22	28.1	-9.7
19,994.0	92.38	0.61	12,457.9	7,423.2	-537.0	2.43	2.38	0.49	27.5	-10.9
Last MWD Survey (MD=19994.0')										
20,138.0	92.38	0.61	12,451.9	7,567.1	-535.5	0.00	0.00	0.00	23.9	-13.5
Projection to Bit (MD=20138.0')										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,015.0	11,973.0	-198.2	-539.6	KOP, MD:12015.0', TVD:11973.0',N/S:-198.2', E/W:-539.6', INC:1.07
12,310.3	12,259.5	-139.8	-511.0	FTP Crossing, MD:12310.3', TVD:12259.5',N/S:-139.8', E/W:-511.0', INC:20.45
19,994.0	12,457.9	7,423.2	-537.0	Last MWD Survey (MD=19994.0')
20,138.0	12,451.9	7,567.1	-535.5	Projection to Bit (MD=20138.0')

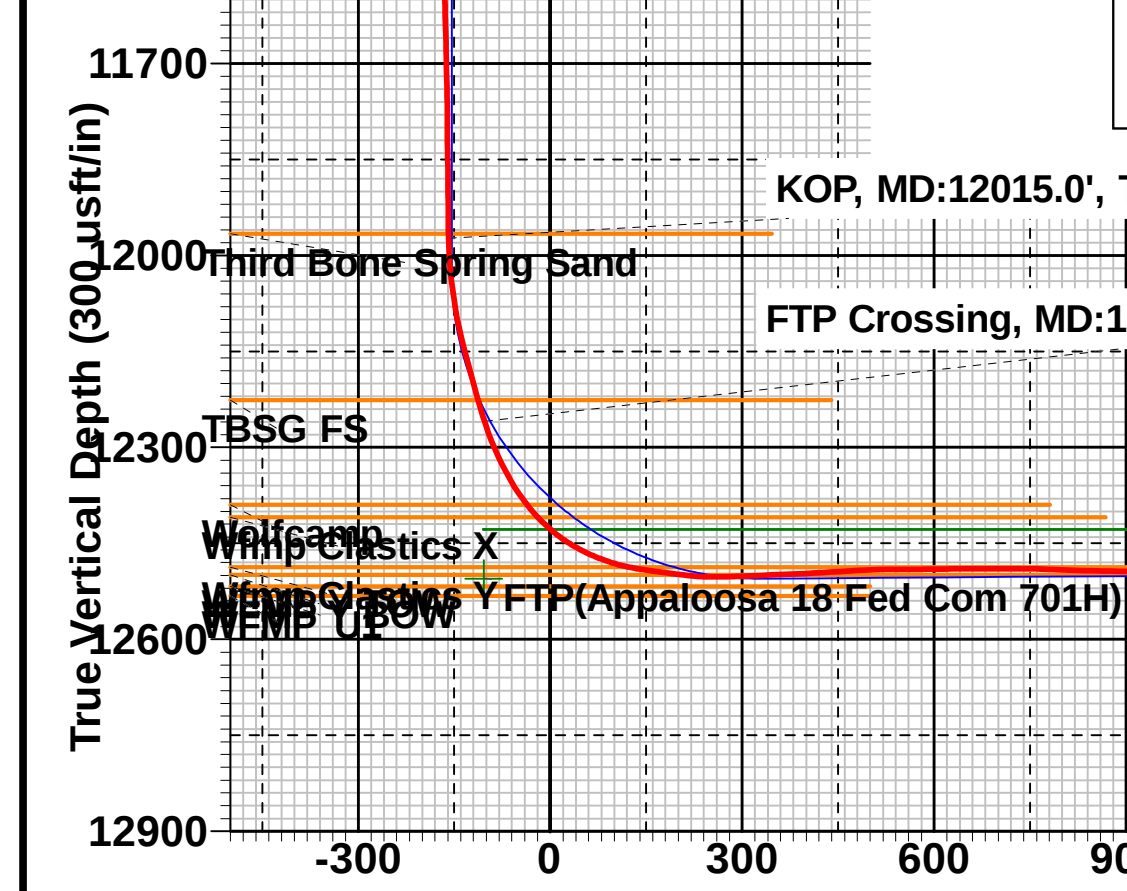
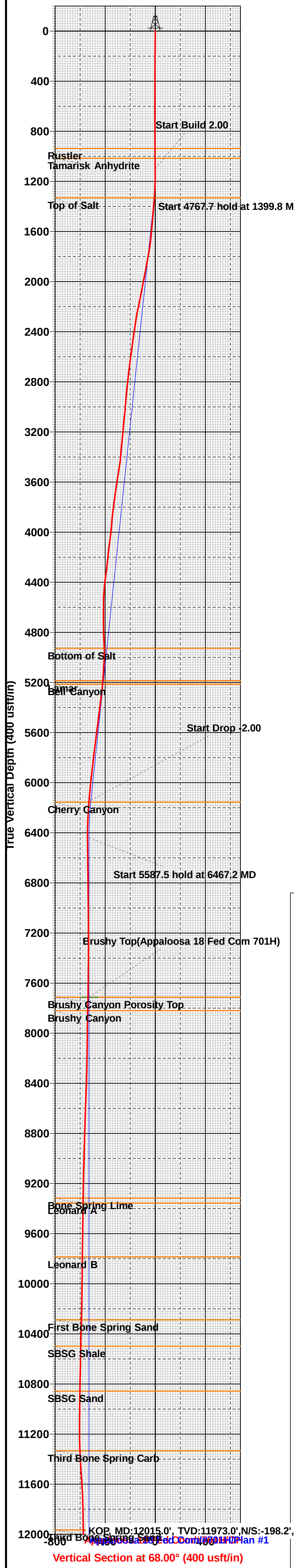


Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 26' @ 3362.0usft
Site:	Appaloosa 18 Fed Com	MD Reference:	KB = 26' @ 3362.0usft
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	PEDM

Checked By: _____	Approved By: _____	Date: _____
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I CERTIFY THIS SURVEY TO BE TRUE AND CORRECT TO THE BEST OF MY BELIEF AND KNOWLEDGE
KAY MADDOX 03/29/2022



Lea County, NM (NAD 83 NME)

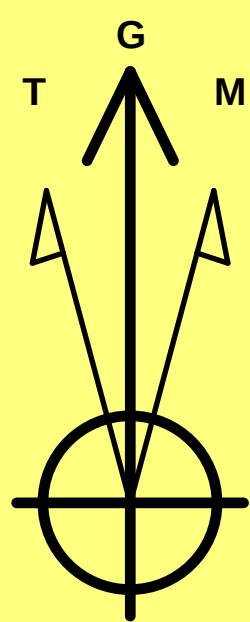
Appaloosa 18 Fed Com

#701H

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



Azimuths to Grid North
True North: -0.44°
Magnetic North: 6.02°

Magnetic Field
Strength: 47388.9nT
Dip Angle: 59.80°
Date: 12/15/2021
Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 6.02°
To convert a Magnetic Direction to a True Direction, Add 6.45° East
To convert a True Direction to a Grid Direction, Subtract 0.44°

WELL DETAILS: #701H

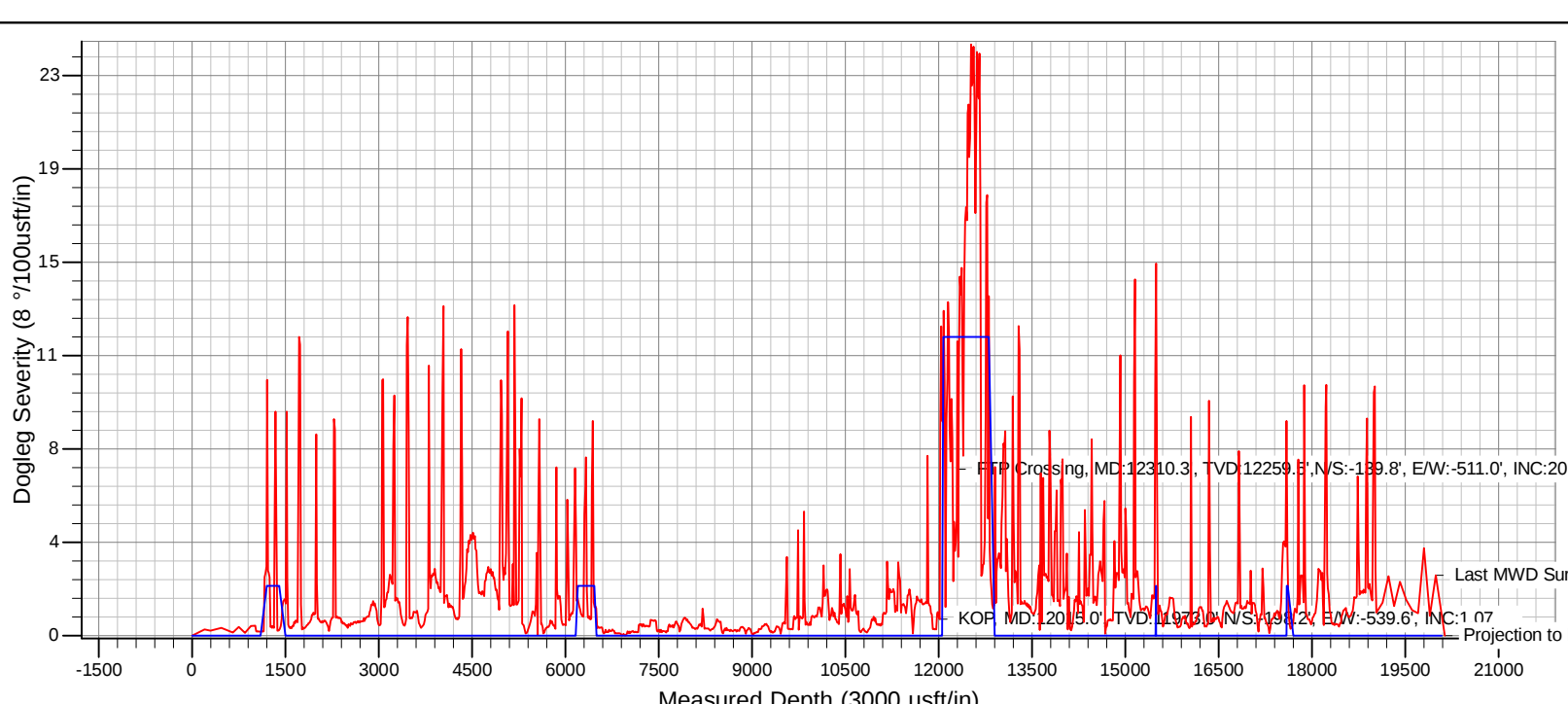
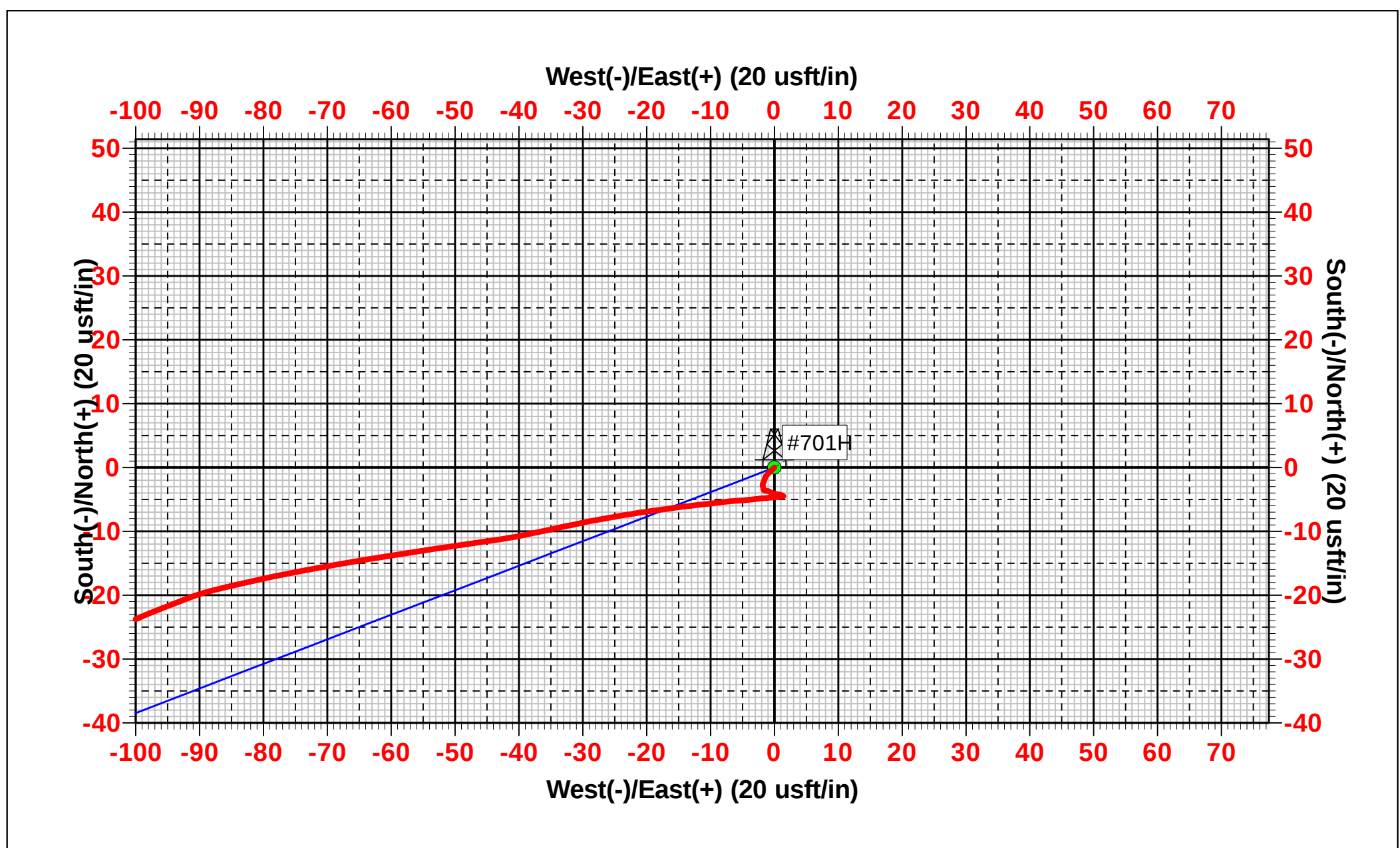
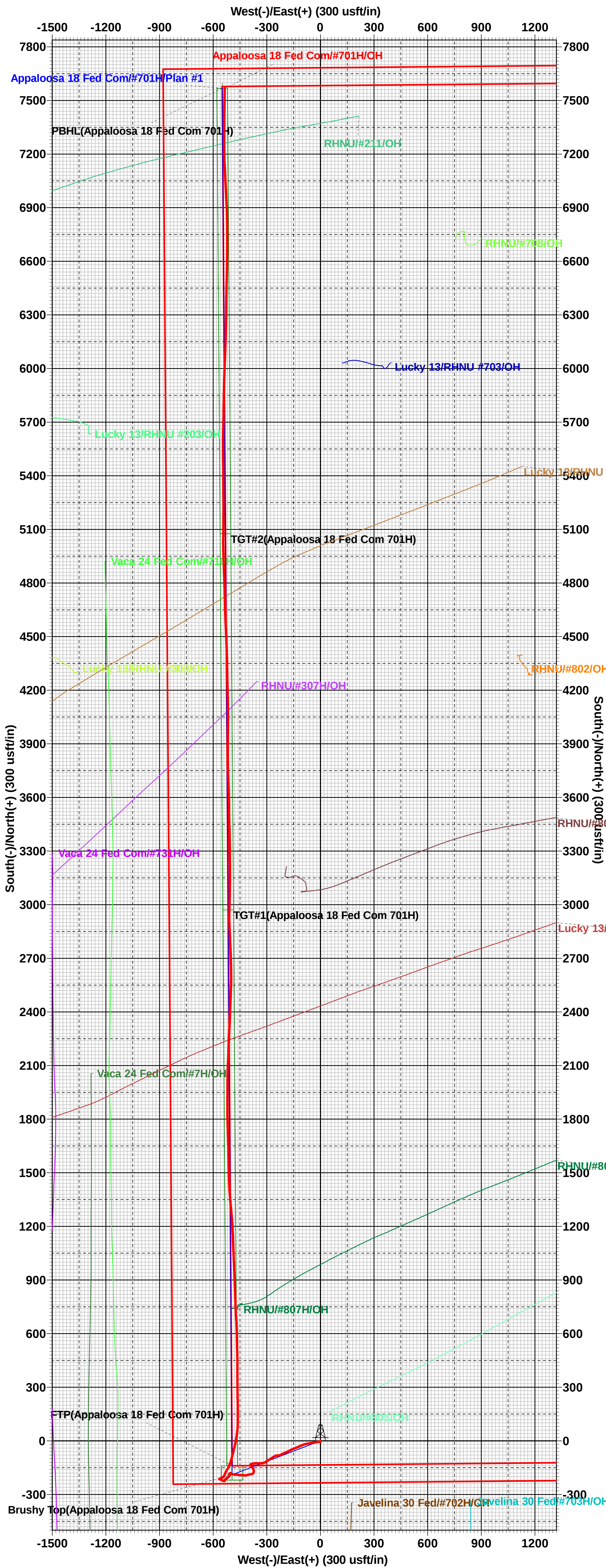
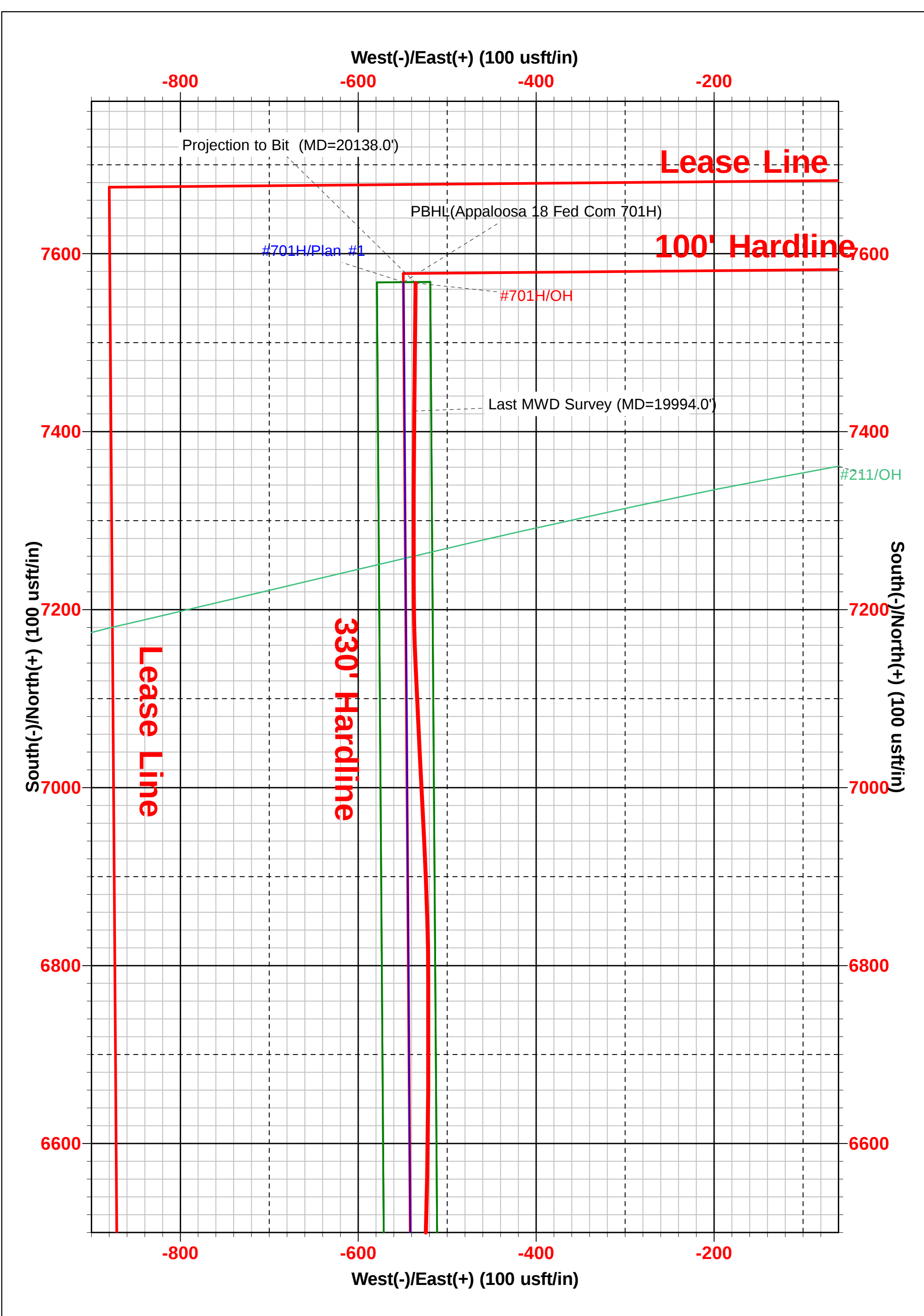
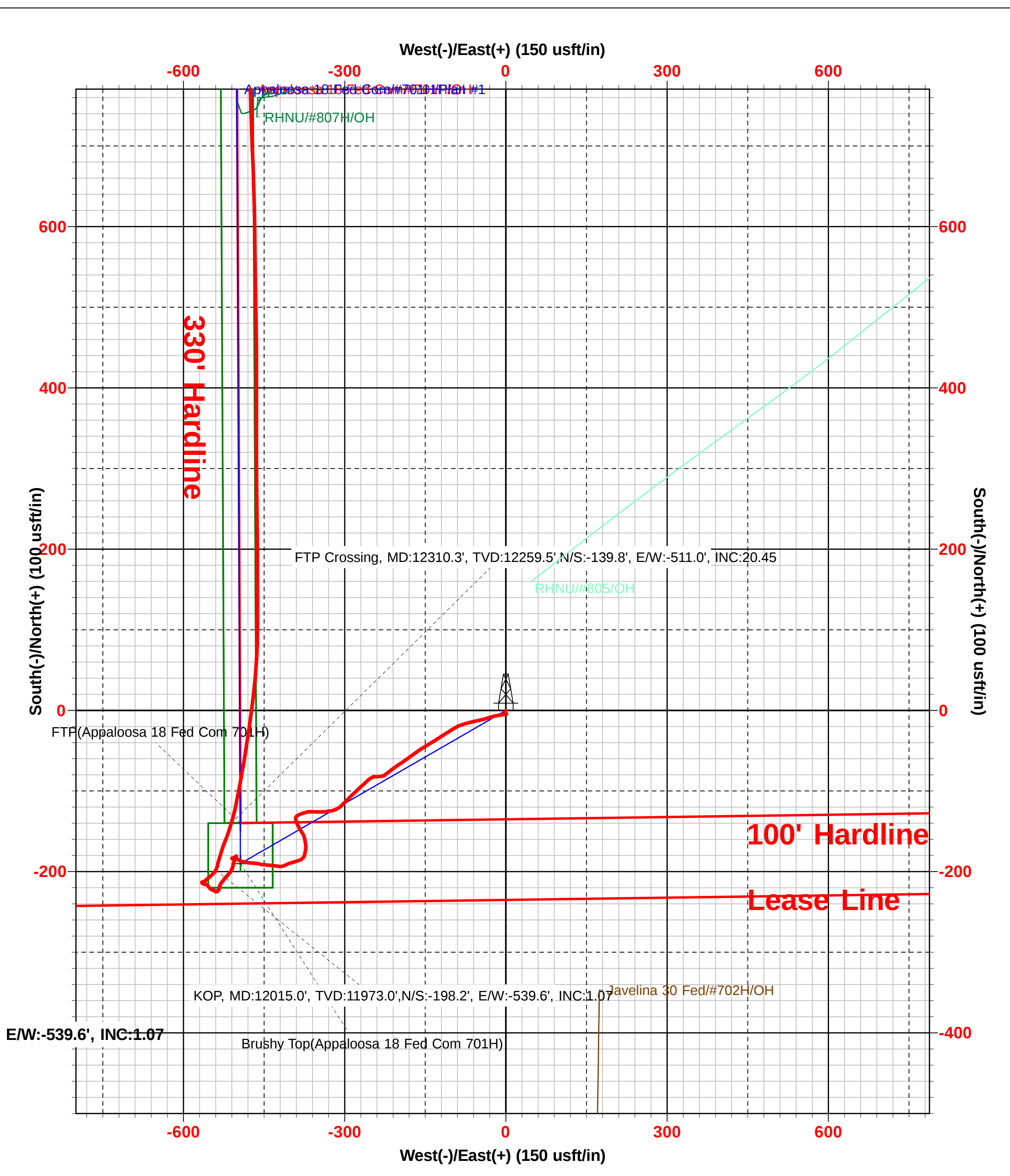
3336.0
KB = 26' @ 3362.0usft
+N/-S +E/-W Northing Easting Latitude Longitude
0.0 0.0 409780.00 794719.00 32° 7' 26.107 N 103° 30' 53.466 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1100.0	0.00	0.00	1100.0	0.0	0.0	0.00	0.00	0.0	
3	1399.8	6.00	248.96	1399.2	-5.6	-14.6	2.00	248.96	-4.6	
4	6167.4	6.00	248.96	6140.8	-184.4	-479.4	0.00	0.00	-149.2	
5	6467.2	0.00	0.00	6440.0	-190.0	-494.0	2.00	180.00	-153.8	
6	12054.7	0.00	0.00	12027.5	-190.0	-494.0	0.00	0.00	-153.8	
7	12807.7	90.36	359.59	12505.0	290.5	-497.4	12.00	359.59	325.7	
8	15487.7	90.36	359.59	12488.0	2970.4	-516.4	0.00	0.00	3000.0	TGT#1(Appaloosa 18 Fed Com 701H)
9	15496.9	90.54	359.59	12487.9	2979.5	-516.5	2.00	0.00	3009.1	TGT#2(Appaloosa 18 Fed Com 701H)
10	17592.4	90.54	359.59	12468.0	5074.9	-531.3	0.00	0.00	5100.0	PBHL(Appaloosa 18 Fed Com 701H)
11	17611.2	90.92	359.59	12467.8	5093.7	-531.5	2.00	0.00	5118.8	
12	20085.9	90.92	359.59	12428.0	7568.0	-549.0	0.00	0.00	7587.9	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Brushy Top(Appaloosa 18 Fed Com 701H)	7712.0	-190.0	-494.0	409590.00	794225.00	Polygon
PBHL(Appaloosa 18 Fed Com 701H)	12428.0	7568.0	-549.0	417348.00	794170.00	Rectangle (Sides: L0.0 W60.0)
TGT#2(Appaloosa 18 Fed Com 701H)	12468.0	5074.9	-531.3	414854.90	794187.67	Point
TGT#1(Appaloosa 18 Fed Com 701H)	12488.0	2970.4	-516.4	412750.40	794202.59	Point
FTP(Appaloosa 18 Fed Com 701H)	12505.0	-140.0	-494.0	409640.00	794225.00	Point



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		
								APPALOOSA 18 FEDERAL COM 6. Well Number: 701H		
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								BOBCAT DRAW; UPPER WOLFCAMP		
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	M	18	25S	34E		235	SOUTH	825	WEST	LEA
BH:	L	7	25S	34E		2531	SOUTH	344	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.)		
10/31/2021	12/31/2021		01/02/2022			03/02/2022		3336' GL		
18. Total Measured Depth of Well			19. Plug Back Measured Depth			20. Was Directional Survey Made?		21. Type Electric and Other Logs Run		
MD 20,138' TVD 12,451'			MD 20,111' TVD 12,451'			YES		None		
22. Producing Interval(s), of this completion - Top, Bottom, Name										
WOLFCAMP 12,638 - 20,111'										
CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
9 5/8"		40#		1077'		12 1/4"		465 CL C/CIRC		
7 5/8"		29.7#		11,794'		8 3/4"		1537 CL C&H/CIRC		
5 1/2"		20#		20,120		6 3/4"		745 CL H TOC 11,822' CBL		PRESS TST ATTACHED
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.				
12,638 - 20,111' 3 1/8", 1578 holes						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						12,638 - 20,111'		FRAC W 18,345,080 lbs proppant, 267,895 bbls load fld		
PRODUCTION										
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)				
03/02/2022		Flowing				Producing				
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio			
03/11/2022	24	128		3482	5966	4975	1713			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)				
	662					44				
29. Disposition of Gas (Sold, used for fuel, vented, etc.)								30. Test Witnessed By		
SOLD										
31. List Attachments										
C-102, C-104, C-103, Directional Survey, H spacing										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.										
33. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude _____				Longitude _____				NAD 1927 1983		
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature			Name			Title			Date	
Kay Maddox			Kay Maddox			Senior Regulatory Specialist			03/30/2022	
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	935'	T. Canyon	Brushy	7818'	T. Ojo Alamo	T. Penn A "
T. Salt		1329'	T. Strawn			T. Kirtland	T. Penn. "B"
B. Salt		4925'	T. Atoka			T. Fruitland	T. Penn. "C"
T. Yates			T. Miss			T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers			T. Devonian			T. Cliff House	T. Leadville
T. Queen			T. Silurian			T. Menefee	T. Madison
T. Grayburg			T. Montoya			T. Point Lookout	T. Elbert
T. San Andres			T. Simpson			T. Mancos	T. McCracken
T. Glorieta			T. McKee			T. Gallup	T. Ignacio Otzte
T. Paddock			T. Ellenburger			Base Greenhorn	T. Granite
T. Blinebry			T. Gr. Wash			T. Dakota	
T. Tubb			T. Delaware Sand			T. Morrison	
T. Drinkard			T. Bone Springs			T. Todilto	
T. Abo			T. 1st BS Sand	10,286'		T. Entrada	
T. Wolfcamp	12,388'		T. 2nd BS Sand	10,855'		T. Wingate	
T. Penn			T. 3rd BS Sand	11,964'		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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

ACKNOWLEDGMENTS

Action 286672

ACKNOWLEDGMENTS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 286672
	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.

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CONDITIONS

Action 286672

CONDITIONS

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	Action Number: 286672
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report within 10 days to NMOCD after BLM approval.	11/17/2023