

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

State of New Mexico
Energy, Minerals & Natural
Resources

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

Oil Conservation Division
1220 South St. Francis Dr.

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE MINERAL AUTHORIZATION TO TRANSPORT

¹ Operator name and Address EOG RESOURCES INC PO BOX 2267 MIDLAND, TEXAS 79702		² OGRID Number 7377	
		³ Reason for Filing Code/ Effective Date NW 08/06/2021	
⁴ API Number 30 - 025-44669	⁵ Pool Name SANDERS TANK; UPPER WOLFCAMP		⁶ Pool Code 98097
⁷ Property Code 319569	⁸ Property Name OPHELIA 22 FEDERAL COM		⁹ Well Number 751H

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
D	22	26S	33E		200	NORTH	1269	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
F	27	26S	33E		2541	NORTH	2490	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 04/17/2021	²² Ready Date 08/06/2021	²³ TD 20,256	²⁴ PBTD 20,229	²⁵ Perforations 13,586-21,229'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
12 1/4	9 5/8"	1075'	527 SXS CL C/CIRC		
8 3/4"	7 5/8"	12,645'	1731 SXS CL C & H/CIRC		
6 3/4"	5 1/2"	21,238'	845 SXS CL H TOC 12,430' CBL		

V. Well Test Data

³¹ Date New Oil 08/06/2021	³² Gas Delivery Date 08/06/2021	³³ Test Date 08/08/2021	³⁴ Test Length 24 HRS	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 1299
³⁷ Choke Size 68	³⁸ Oil 1699	³⁹ Water 9248	⁴⁰ Gas 4788		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: Kay Maddox			OIL CONSERVATION DIVISION Approved by: KURT SIMMONS Title: NMOCD, SANTA FE Approval Date: 09/27/2021		
Printed name: Kay Maddox					
Title: SENIOR REGULATORY SPECIALIST					
E-mail Address: kay_maddox@eogresources.com					
Date: 08/23/2021		Phone: 432-638-8475			

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-44669		² Pool Code 98097	³ Pool Name SANDERS TANK; UPPER WOLFCAMP
⁴ Property Code 319569	⁵ Property Name OPHELIA 22 FED COM		⁶ Well Number 751H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.		⁹ Elevation 3308'

¹⁰Surface Location

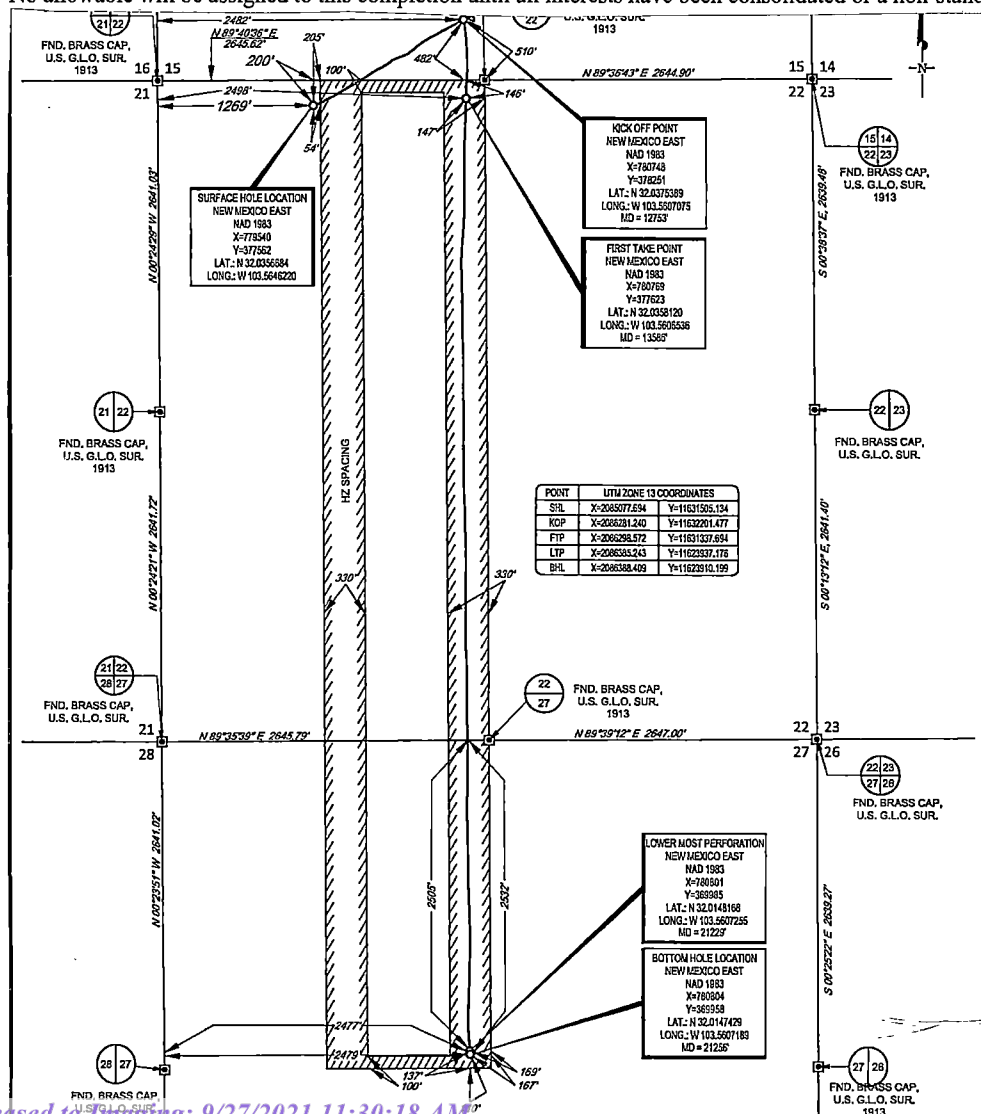
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	22	26-S	33-E	-	200'	NORTH	1269'	WEST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	27	26-S	33-E	-	2541'	NORTH	2490'	WEST	LEA

¹² Dedicated Acres 240.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSL - 8154
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁷OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Kay Maddox 08/23/2021
Signature Date

KAY MADDOX

Printed Name

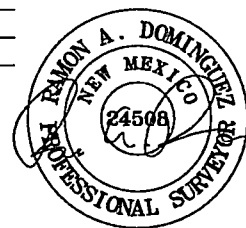
kay_maddox@eogresources.com
E-mail Address

¹⁸SURVEYOR CERTIFICATION

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

08/25/2017
Date of Survey
Signature and Seal of Professional Surveyor
RAMON A. DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR
Certificate Number

HELIA_22_FC_751H_C-102_REV2.DWG 2/26/2021 12:33:32 PM rdominguez



eog resources, inc.

 **TOPOGRAPHIC**
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

OPHELIA 22 FED COM 751H AS-COMPLETED		REVISION:	
DATE: 07/16/2021			
FILE:AD_OPHELIA_22_FED_COM_751H			
DRAWN BY: A.V.F.			
SHEET: 1 OF 1			

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 14"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE 10S, SURVEY EPOCH, NORTH AMERICAN DATUM 1983.
3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



Midland

Lea County, NM (NAD 83 NME)

Ophelia 22 Fed Com

#751H

OH

Design: OH

Final PVA

28 May, 2021



Final PVA

Company:	Midland			Local Co-ordinate Reference:	Well #751H
Project:	Lea County, NM (NAD 83 NME)			TVD Reference:	KB = 25' @ 3333.0usft
Site:	Ophelia 22 Fed Com			MD Reference:	KB = 25' @ 3333.0usft
Well:	#751H			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	Ophelia 22 Fed Com				
Site Position:		Northing:	377,559.00 usft	Latitude:	32° 2' 8.418 N
From:	Map	Easting:	778,915.00 usft	Longitude:	103° 33' 59.896 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41 °

Well	#751H					
Well Position	+N/-S	0.0 usft	Northing:	377,562.00 usft	Latitude:	32° 2' 8.404 N
	+E/-W	0.0 usft	Easting:	779,540.00 usft	Longitude:	103° 33' 52.636 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,308.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/1/2021	6.56	59.74	47,413.82624477

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	170.56	

Survey Program	Date	5/28/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
199.0	21,256.0	SDI MWD #1 (OH)	EOG MWD+IFR1	MWD + IFR1	



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Well:	#751H	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	0.57	280.82	199.0	0.2	-1.0	0.29	0.29	0.00	-1.0	0.0	
293.0	0.67	86.92	293.0	0.3	-0.9	1.31	0.11	176.70	0.9	0.4	
384.0	1.67	90.48	384.0	0.3	1.0	1.10	1.10	3.91	-1.0	0.3	
477.0	2.49	91.00	476.9	0.3	4.3	0.88	0.88	0.56	-4.3	0.4	
568.0	2.52	89.45	567.8	0.3	8.3	0.08	0.03	-1.70	-8.3	0.2	
659.0	2.44	88.44	658.7	0.3	12.3	0.10	-0.09	-1.11	-12.3	0.0	
755.0	2.19	90.14	754.7	0.4	16.1	0.27	-0.26	1.77	-16.1	0.4	
850.0	1.83	77.47	849.6	0.7	19.4	0.60	-0.38	-13.34	-19.1	-3.5	
946.0	2.26	59.67	945.5	2.0	22.6	0.79	0.45	-18.54	-20.5	-9.7	
1,015.0	2.11	62.80	1,014.5	3.3	24.9	0.28	-0.22	4.54	-23.6	-8.5	
1,138.0	2.51	53.41	1,137.4	5.9	29.0	0.45	0.33	-7.63	-26.6	-12.5	
1,234.0	3.90	54.04	1,233.2	9.1	33.4	1.45	1.45	0.66	-29.2	-11.8	
1,330.0	8.60	62.47	1,328.6	14.3	42.4	4.98	4.90	8.78	-35.0	-7.0	
1,426.0	11.92	62.88	1,423.1	22.2	57.6	3.46	3.46	0.43	-42.8	-6.9	
1,521.0	13.90	62.43	1,515.7	31.9	76.4	2.09	2.08	-0.47	-51.6	-7.5	
1,617.0	14.83	63.50	1,608.7	42.7	97.6	1.01	0.97	1.11	-60.0	-6.8	
1,713.0	14.63	63.38	1,701.5	53.6	119.5	0.21	-0.21	-0.12	-65.5	-7.5	
1,905.0	14.17	61.72	1,887.5	75.6	161.9	0.32	-0.24	-0.86	-68.0	-10.0	
2,001.0	13.97	61.59	1,980.6	86.7	182.4	0.21	-0.21	-0.14	-68.4	-10.2	
2,193.0	13.28	60.27	2,167.2	108.7	221.9	0.39	-0.36	-0.69	-67.6	-11.0	
2,289.0	13.15	59.09	2,260.7	119.8	240.9	0.31	-0.14	-1.23	-66.4	-11.6	
2,385.0	12.96	58.94	2,354.2	130.9	259.5	0.20	-0.20	-0.16	-65.1	-10.6	
2,480.0	12.91	58.91	2,446.8	141.9	277.7	0.05	-0.05	-0.03	-63.7	-9.6	
2,576.0	12.60	59.56	2,540.4	152.7	295.9	0.36	-0.32	0.68	-62.0	-7.9	
2,672.0	12.33	59.03	2,634.2	163.3	313.7	0.31	-0.28	-0.55	-59.7	-7.4	
2,768.0	11.69	60.38	2,728.1	173.4	331.0	0.73	-0.67	1.41	-56.8	-5.3	



Final PVA

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Well:	#751H	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)	
2,863.0	11.43	58.81	2,821.1	183.0	347.4	0.43	-0.27	-1.65	-53.0	-5.9	
2,959.0	11.33	58.92	2,915.2	192.8	363.6	0.11	-0.10	0.11	-48.9	-4.7	
3,054.0	11.24	59.86	3,008.4	202.3	379.6	0.22	-0.09	0.99	-44.8	-3.0	
3,150.0	11.29	61.08	3,102.6	211.5	395.9	0.25	0.05	1.27	-40.6	-1.6	
3,246.0	13.68	56.62	3,196.3	222.3	413.6	2.68	2.49	-4.65	-38.2	-3.3	
3,341.0	11.91	56.95	3,288.9	233.9	431.2	1.86	-1.86	0.35	-36.6	-1.2	
3,437.0	10.78	56.51	3,383.0	244.2	447.0	1.18	-1.18	-0.46	-32.5	0.6	
3,533.0	11.02	54.64	3,477.3	254.5	462.0	0.45	0.25	-1.95	-27.8	2.1	
3,628.0	12.35	55.23	3,570.3	265.5	477.7	1.41	1.40	0.62	-24.4	5.0	
3,724.0	12.78	61.00	3,664.0	276.5	495.4	1.38	0.45	6.01	-21.7	8.7	
3,820.0	14.61	64.33	3,757.3	286.9	515.6	2.07	1.91	3.47	-20.9	9.5	
3,916.0	13.21	62.85	3,850.5	297.2	536.3	1.50	-1.46	-1.54	-21.3	8.2	
4,012.0	12.63	64.09	3,944.1	306.8	555.5	0.67	-0.60	1.29	-19.7	8.0	
4,108.0	10.47	60.80	4,038.1	315.6	572.6	2.35	-2.25	-3.43	-16.3	6.6	
4,203.0	10.38	55.49	4,131.5	324.7	587.2	1.02	-0.09	-5.59	-11.3	6.8	
4,299.0	11.76	50.20	4,225.8	335.8	601.8	1.78	1.44	-5.51	-7.7	9.5	
4,395.0	11.84	54.60	4,319.7	347.8	617.3	0.94	0.08	4.58	-3.7	13.7	
4,490.0	11.83	58.26	4,412.7	358.6	633.6	0.79	-0.01	3.85	0.4	15.9	
4,585.0	12.77	60.79	4,505.5	368.8	651.0	1.14	0.99	2.66	3.6	16.7	
4,681.0	12.36	66.03	4,599.2	378.2	669.7	1.26	-0.43	5.46	7.1	15.5	
4,777.0	15.16	69.34	4,692.5	386.8	690.8	3.03	2.92	3.45	7.9	12.7	
4,872.0	13.94	72.37	4,784.4	394.6	713.3	1.51	-1.28	3.19	7.0	8.7	
4,985.0	10.60	71.38	4,894.8	402.1	736.2	2.96	-2.96	-0.88	9.5	4.1	
5,064.0	10.24	62.98	4,972.5	407.6	749.3	1.97	-0.46	-10.63	13.6	3.9	
5,159.0	10.23	53.32	5,066.0	416.4	763.6	1.80	-0.01	-10.17	18.6	8.0	
5,255.0	12.82	51.40	5,160.1	428.2	778.8	2.73	2.70	-2.00	21.8	12.4	
5,351.0	15.67	50.38	5,253.1	443.1	797.1	2.98	2.97	-1.06	20.4	17.1	



Final PVA

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Design:	OH	Database:	PEDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
5,447.0	14.98	49.63	5,345.7	459.4	816.5	0.75	-0.72	-0.78	17.2	22.0	
5,542.0	15.49	52.81	5,437.4	475.0	836.0	1.03	0.54	3.35	15.7	25.2	
5,637.0	15.75	57.32	5,528.9	489.7	856.9	1.31	0.27	4.75	14.6	26.7	
5,733.0	14.97	54.07	5,621.4	504.0	877.9	1.21	-0.81	-3.39	10.3	29.8	
5,828.0	16.38	56.09	5,712.9	518.6	899.0	1.59	1.48	2.13	8.2	32.1	
5,924.0	17.53	59.77	5,804.7	533.5	922.7	1.64	1.20	3.83	4.9	33.2	
6,020.0	16.77	61.65	5,896.5	547.3	947.4	0.98	-0.79	1.96	0.3	33.5	
6,116.0	16.45	62.91	5,988.5	560.1	971.7	0.50	-0.33	1.31	-3.6	33.3	
6,212.0	14.45	60.65	6,081.0	572.2	994.2	2.18	-2.08	-2.35	-7.6	33.1	
6,308.0	14.18	57.39	6,174.0	584.4	1,014.6	0.89	-0.28	-3.40	-10.3	33.7	
6,404.0	15.09	60.18	6,266.9	596.9	1,035.3	1.20	0.95	2.91	-10.1	35.3	
6,500.0	15.51	65.90	6,359.5	608.4	1,057.9	1.63	0.44	5.96	-9.1	35.7	
6,595.0	15.31	63.97	6,451.1	619.1	1,080.8	0.58	-0.21	-2.03	-12.9	34.1	
6,691.0	15.00	62.91	6,543.7	630.3	1,103.2	0.43	-0.32	-1.10	-15.8	33.1	
6,787.0	15.13	60.12	6,636.4	642.2	1,125.1	0.77	0.14	-2.91	-19.4	32.4	
6,883.0	15.02	58.16	6,729.1	655.0	1,146.6	0.54	-0.11	-2.04	-22.6	32.7	
6,979.0	14.59	60.20	6,821.9	667.6	1,167.6	0.70	-0.45	2.12	-23.2	34.6	
7,075.0	14.87	63.66	6,914.8	679.0	1,189.1	0.96	0.29	3.60	-22.6	35.8	
7,171.0	13.59	63.01	7,007.8	689.6	1,210.2	1.34	-1.33	-0.68	-24.4	34.9	
7,266.0	12.29	64.61	7,100.4	699.0	1,229.3	1.42	-1.37	1.68	-25.7	35.0	
7,362.0	11.73	66.70	7,194.3	707.3	1,247.5	0.74	-0.58	2.18	-28.3	34.8	
7,458.0	7.95	76.08	7,288.9	712.7	1,262.9	4.26	-3.94	9.77	-26.0	37.3	
7,554.0	4.37	89.15	7,384.3	714.4	1,273.0	3.98	-3.73	13.61	-18.2	39.2	
7,649.0	3.14	108.89	7,479.1	713.6	1,279.1	1.86	-1.29	20.78	-5.4	39.4	
7,745.0	2.80	137.94	7,575.0	711.0	1,283.2	1.59	-0.35	30.26	10.7	34.9	
7,841.0	2.16	139.90	7,670.9	707.9	1,285.9	0.67	-0.67	2.04	7.8	33.9	
7,936.0	1.84	148.20	7,765.9	705.2	1,287.9	0.45	-0.34	8.74	9.4	32.7	



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #751H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3333.0usft
Site:	Ophelia 22 Fed Com	MD Reference:	KB = 25' @ 3333.0usft
Well:	#751H	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)	
8,032.0	1.99	157.82	7,861.8	702.3	1,289.3	0.37	0.16	10.02	11.5	30.9	
8,128.0	2.12	164.47	7,957.8	699.1	1,290.4	0.28	0.14	6.93	11.6	29.6	
8,224.0	2.14	164.18	8,053.7	695.7	1,291.4	0.02	0.02	-0.30	7.9	29.6	
8,320.0	2.30	167.13	8,149.6	692.1	1,292.3	0.20	0.17	3.07	5.7	29.3	
8,416.0	2.36	164.27	8,245.5	688.3	1,293.3	0.14	0.06	-2.98	0.3	29.4	
8,512.0	1.41	187.14	8,341.5	685.2	1,293.6	1.24	-0.99	23.82	8.7	27.8	
8,607.0	1.07	237.40	8,436.5	683.6	1,292.8	1.15	-0.36	52.91	25.3	12.0	
8,703.0	1.06	216.94	8,532.5	682.4	1,291.5	0.39	-0.01	-21.31	17.8	19.7	
8,799.0	1.03	209.60	8,628.4	680.9	1,290.5	0.14	-0.03	-7.65	13.4	21.7	
8,895.0	0.95	197.34	8,724.4	679.4	1,289.8	0.24	-0.08	-12.77	6.8	23.9	
8,991.0	0.94	203.40	8,820.4	677.9	1,289.3	0.10	-0.01	6.31	7.7	23.1	
9,086.0	1.04	209.22	8,915.4	676.4	1,288.6	0.15	0.11	6.13	8.4	22.3	
9,182.0	1.19	216.43	9,011.4	674.9	1,287.5	0.21	0.16	7.51	9.3	21.2	
9,278.0	0.78	231.91	9,107.4	673.7	1,286.4	0.51	-0.43	16.12	13.0	18.2	
9,374.0	0.69	242.36	9,203.4	673.0	1,285.4	0.17	-0.09	10.89	14.8	15.7	
9,470.0	1.26	276.54	9,299.3	672.9	1,283.8	0.82	0.59	35.60	19.5	4.9	
9,565.0	1.57	296.78	9,394.3	673.6	1,281.6	0.61	0.33	21.31	17.8	-1.8	
9,661.0	2.42	318.34	9,490.3	675.7	1,279.1	1.17	0.89	22.46	12.6	-7.7	
9,757.0	3.20	317.32	9,586.1	679.2	1,276.0	0.81	0.81	-1.06	8.0	-7.5	
9,853.0	2.72	312.00	9,682.0	682.7	1,272.5	0.58	-0.50	-5.54	3.8	-7.0	
9,948.0	3.58	290.20	9,776.9	685.2	1,268.0	1.54	0.91	-22.95	1.0	-5.9	
10,044.0	3.52	291.80	9,872.7	687.3	1,262.4	0.12	-0.06	1.67	-5.1	-5.8	
10,140.0	3.54	298.78	9,968.5	689.8	1,257.1	0.45	0.02	7.27	-11.6	-4.8	
10,236.0	3.02	302.49	10,064.3	692.6	1,252.4	0.58	-0.54	3.86	-17.4	-3.9	
10,332.0	1.50	304.42	10,160.3	694.7	1,249.2	1.59	-1.58	2.01	-21.3	-3.2	
10,428.0	1.29	287.46	10,256.2	695.7	1,247.1	0.48	-0.22	-17.67	-21.7	-9.6	
10,523.0	2.21	289.84	10,351.2	696.7	1,244.4	0.97	0.97	2.51	-25.0	-8.7	



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #751H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3333.0usft
Site:	Ophelia 22 Fed Com	MD Reference:	KB = 25' @ 3333.0usft
Well:	#751H	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)	
10,619.0	1.90	303.76	10,447.1	698.2	1,241.3	0.61	-0.32	14.50	-29.8	-2.0	
10,715.0	1.55	349.35	10,543.1	700.3	1,239.8	1.43	-0.36	47.49	-24.6	21.0	
10,811.0	1.96	60.29	10,639.1	702.4	1,241.0	2.15	0.43	73.90	9.8	31.4	
10,906.0	1.36	29.71	10,734.0	704.2	1,242.9	1.10	-0.63	-32.19	-10.1	31.2	
11,002.0	1.52	72.71	10,830.0	705.6	1,244.7	1.11	0.17	44.79	11.8	30.5	
11,098.0	1.40	147.91	10,926.0	705.0	1,246.6	1.86	-0.12	78.33	31.0	-2.4	
11,194.0	1.73	209.77	11,021.9	702.7	1,246.5	1.70	0.34	64.44	10.5	-27.4	
11,290.0	2.73	267.16	11,117.9	701.3	1,243.5	2.41	1.04	59.78	-20.5	-22.4	
11,386.0	2.75	271.37	11,213.8	701.3	1,238.9	0.21	0.02	4.39	-26.6	-20.7	
11,481.0	3.80	269.94	11,308.6	701.3	1,233.4	1.11	1.11	-1.51	-31.5	-21.4	
11,577.0	5.50	272.22	11,404.3	701.5	1,225.7	1.78	1.77	2.37	-40.1	-20.0	
11,673.0	2.52	268.89	11,500.0	701.6	1,219.0	3.11	-3.10	-3.47	-45.6	-22.6	
11,769.0	1.90	259.28	11,596.0	701.3	1,215.3	0.75	-0.65	-10.01	-44.9	-30.2	
11,865.0	1.95	265.95	11,691.9	700.9	1,212.1	0.24	0.05	6.95	-51.3	-24.6	
11,960.0	0.67	305.46	11,786.9	701.1	1,210.0	1.57	-1.35	41.59	-57.0	14.7	
12,056.0	1.40	124.81	11,882.9	700.8	1,210.5	2.16	0.76	186.82	56.6	-14.1	
12,152.0	1.02	141.96	11,978.9	699.4	1,212.0	0.54	-0.40	17.86	47.9	-29.8	
12,248.0	0.99	152.27	12,074.8	698.0	1,212.9	0.19	-0.03	10.74	40.2	-37.7	
12,344.0	1.28	157.03	12,170.8	696.3	1,213.7	0.32	0.30	4.96	35.0	-40.8	
12,440.0	0.98	163.91	12,266.8	694.5	1,214.4	0.34	-0.31	7.17	28.0	-44.6	
12,535.0	1.11	213.12	12,361.8	693.0	1,214.1	0.92	0.14	51.80	-16.9	-49.7	
12,592.0	1.22	249.26	12,418.8	692.3	1,213.2	1.28	0.19	63.40	-44.1	-29.8	
12,699.0	2.57	269.90	12,525.7	691.9	1,209.8	1.39	1.26	19.29	-55.2	-12.0	
12,735.0	3.69	205.12	12,561.7	690.8	1,208.5	9.67	3.10	-179.94	-14.2	-55.8	
KOP (MD=12735.0')											
12,778.0	7.33	182.79	12,604.5	686.8	1,207.7	9.67	8.46	-51.91	4.0	-57.5	
KOP (Ophelia 22 Fed Com #751H)											



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #751H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3333.0usft
Site:	Ophelia 22 Fed Com	MD Reference:	KB = 25' @ 3333.0usft
Well:	#751H	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)
12,795.0	8.89	179.21	12,621.3	684.4	1,207.7	9.67	9.20	-21.08	5.5	-57.2
12,891.0	35.22	169.03	12,709.5	649.2	1,213.2	27.62	27.43	-10.60	-9.6	-53.0
12,987.0	42.32	170.74	12,784.3	590.1	1,223.7	7.48	7.40	1.78	-44.3	-44.1
13,083.0	47.49	176.57	12,852.3	522.8	1,231.0	6.88	5.39	6.07	-71.7	-27.4
13,179.0	57.74	176.96	12,910.5	446.7	1,235.3	10.68	10.68	0.41	-86.1	-14.4
13,275.0	64.66	178.67	12,956.8	362.7	1,238.4	7.38	7.21	1.78	-91.1	0.7
13,370.0	70.90	181.79	12,992.7	274.8	1,238.0	7.24	6.57	3.28	-82.9	12.9
13,466.0	80.02	182.56	13,016.8	182.1	1,234.5	9.53	9.50	0.80	-65.2	19.7
13,546.7	87.76	182.55	13,025.3	102.0	1,230.9	9.59	9.59	-0.01	-56.7	20.5
HL Crossing, MD:13546.7', TVD:13025.3', N/S:102.0', E/W:1230.9', INC:87.76 - FTP (Ophelia 22 Fed Com #751H)										
13,562.0	89.23	182.55	13,025.7	86.7	1,230.2	9.59	9.59	-0.01	-56.3	20.1
13,658.0	90.87	181.35	13,025.7	-9.3	1,227.0	2.12	1.71	-1.25	-56.5	16.6
13,754.0	90.84	182.41	13,024.2	-105.2	1,223.8	1.10	-0.03	1.10	-58.0	12.8
13,850.0	88.02	183.16	13,025.2	-201.1	1,219.2	3.04	-2.94	0.78	-57.2	7.4
13,946.0	85.83	181.10	13,030.3	-296.8	1,215.6	3.13	-2.28	-2.15	-52.1	3.2
14,042.0	86.51	179.60	13,036.7	-392.6	1,215.0	1.71	0.71	-1.56	-45.8	1.9
14,138.0	88.49	179.56	13,040.9	-488.5	1,215.7	2.06	2.06	-0.04	-41.7	2.0
14,233.0	88.82	181.25	13,043.2	-583.5	1,215.0	1.81	0.35	1.78	-39.5	0.6
14,329.0	90.54	180.72	13,043.7	-679.5	1,213.4	1.87	1.79	-0.55	-39.1	-1.7
14,425.0	87.22	180.73	13,045.6	-775.4	1,212.2	3.46	-3.46	0.01	-37.3	-3.6
14,521.0	90.64	180.37	13,047.4	-871.4	1,211.3	3.58	3.56	-0.37	-35.6	-5.2
14,617.0	88.76	183.85	13,047.9	-967.3	1,207.7	4.12	-1.96	3.62	-35.2	-9.4
14,713.0	89.46	184.87	13,049.4	-1,063.0	1,200.4	1.29	0.73	1.06	-33.8	-17.3
14,809.0	89.06	184.15	13,050.6	-1,158.7	1,192.9	0.86	-0.42	-0.75	-32.7	-25.6
14,905.0	87.28	179.92	13,053.7	-1,254.6	1,189.5	4.78	-1.85	-4.41	-29.7	-29.7
15,001.0	87.11	177.96	13,058.4	-1,350.4	1,191.2	2.05	-0.18	-2.04	-25.0	-28.6
15,097.0	87.72	178.74	13,062.7	-1,446.3	1,194.0	1.03	0.64	0.81	-20.8	-26.5



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #751H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3333.0usft
Site:	Ophelia 22 Fed Com	MD Reference:	KB = 25' @ 3333.0usft
Well:	#751H	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)	
15,193.0	89.80	179.63	13,064.8	-1,542.3	1,195.4	2.36	2.17	0.93	-18.8	-25.8	
15,289.0	90.00	178.35	13,064.9	-1,638.3	1,197.1	1.35	0.21	-1.33	-18.8	-24.8	
15,385.0	90.47	179.64	13,064.5	-1,734.2	1,198.7	1.43	0.49	1.34	-19.3	-23.8	
15,481.0	89.93	178.35	13,064.2	-1,830.2	1,200.4	1.46	-0.56	-1.34	-19.7	-22.8	
15,577.0	89.30	178.60	13,064.9	-1,926.2	1,203.0	0.71	-0.66	0.26	-19.1	-21.0	
15,673.0	87.22	178.66	13,067.8	-2,022.1	1,205.3	2.17	-2.17	0.06	-16.3	-19.4	
15,768.0	87.68	179.91	13,072.0	-2,117.0	1,206.5	1.40	0.48	1.32	-12.2	-18.8	
15,864.0	89.19	181.10	13,074.6	-2,213.0	1,205.6	2.00	1.57	1.24	-9.6	-20.3	
15,960.0	89.23	178.15	13,075.9	-2,308.9	1,206.2	3.07	0.04	-3.07	-8.4	-20.4	
16,057.0	91.28	178.50	13,075.5	-2,405.9	1,209.1	2.14	2.11	0.36	-8.9	-18.3	
16,153.0	89.43	180.42	13,074.9	-2,501.9	1,210.0	2.78	-1.93	2.00	-9.6	-18.0	
16,249.0	91.64	181.15	13,074.0	-2,597.9	1,208.7	2.42	2.30	0.76	-10.6	-20.0	
16,345.0	89.23	180.50	13,073.3	-2,693.8	1,207.3	2.60	-2.51	-0.68	-11.4	-22.1	
16,441.0	88.16	178.41	13,075.5	-2,789.8	1,208.2	2.45	-1.11	-2.18	-9.3	-21.9	
16,537.0	88.69	179.47	13,078.1	-2,885.7	1,210.0	1.23	0.55	1.10	-6.8	-20.8	
16,632.0	91.07	181.03	13,078.3	-2,980.7	1,209.6	3.00	2.51	1.64	-6.7	-21.8	
16,728.0	88.15	177.27	13,079.0	-3,076.7	1,211.0	4.96	-3.04	-3.92	-6.1	-21.1	
16,824.0	88.56	177.67	13,081.7	-3,172.6	1,215.2	0.60	0.43	0.42	-3.4	-17.5	
16,920.0	90.13	178.72	13,082.8	-3,268.5	1,218.2	1.97	1.64	1.09	-2.4	-15.2	
17,017.0	89.16	178.18	13,083.4	-3,365.5	1,220.9	1.14	-1.00	-0.56	-1.9	-13.3	
17,113.0	89.93	177.99	13,084.2	-3,461.4	1,224.1	0.83	0.80	-0.20	-1.2	-10.7	
17,209.0	89.93	179.31	13,084.3	-3,557.4	1,226.3	1.37	0.00	1.37	-1.2	-9.2	
17,304.0	91.54	180.11	13,083.1	-3,652.4	1,226.8	1.89	1.69	0.84	-2.5	-9.3	
17,400.0	89.06	180.93	13,082.6	-3,748.3	1,225.9	2.72	-2.58	0.85	-3.1	-10.9	
17,496.0	87.82	179.29	13,085.2	-3,844.3	1,225.8	2.14	-1.29	-1.71	-0.6	-11.8	
17,592.0	88.56	179.57	13,088.2	-3,940.3	1,226.7	0.82	0.77	0.29	2.3	-11.5	
17,688.0	89.70	180.46	13,089.7	-4,036.2	1,226.7	1.51	1.19	0.93	3.7	-12.2	



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #751H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3333.0usft
Site:	Ophelia 22 Fed Com	MD Reference:	KB = 25' @ 3333.0usft
Well:	#751H	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)
17,784.0	90.37	181.14	13,089.6	-4,132.2	1,225.3	0.99	0.70	0.71	3.6	-14.2
17,880.0	89.70	180.19	13,089.6	-4,228.2	1,224.2	1.21	-0.70	-0.99	3.4	-16.0
17,976.0	88.18	177.29	13,091.3	-4,324.2	1,226.3	3.41	-1.58	-3.02	5.1	-14.6
18,072.0	88.39	176.75	13,094.2	-4,420.0	1,231.3	0.60	0.22	-0.56	7.9	-10.3
18,168.0	90.67	178.23	13,095.0	-4,515.9	1,235.5	2.83	2.37	1.54	8.6	-6.7
18,264.0	88.29	179.63	13,095.9	-4,611.9	1,237.3	2.88	-2.48	1.46	9.4	-5.6
18,360.0	89.23	180.58	13,097.9	-4,707.8	1,237.1	1.39	0.98	0.99	11.3	-6.5
18,456.0	86.95	180.22	13,101.1	-4,803.8	1,236.5	2.40	-2.37	-0.37	14.4	-7.8
18,552.0	89.87	179.08	13,103.8	-4,899.7	1,237.1	3.27	3.04	-1.19	17.0	-7.9
18,648.0	92.01	178.90	13,102.2	-4,995.7	1,238.8	2.24	2.23	-0.19	15.4	-6.9
18,744.0	91.58	179.40	13,099.2	-5,091.6	1,240.2	0.69	-0.45	0.52	12.3	-6.2
18,779.2	91.41	179.95	13,098.3	-5,126.8	1,240.4	1.63	-0.49	1.55	11.3	-6.2
TGT 1 (Ophelia 22 Fed Com #751H)										
18,840.0	91.11	180.89	13,097.0	-5,187.6	1,239.9	1.63	-0.49	1.55	9.9	-7.1
18,936.0	89.19	180.79	13,096.7	-5,283.6	1,238.5	2.00	-2.00	-0.10	9.5	-9.2
19,032.0	88.46	179.14	13,098.7	-5,379.6	1,238.6	1.88	-0.76	-1.72	11.3	-9.8
19,128.0	90.30	180.66	13,099.7	-5,475.5	1,238.8	2.49	1.92	1.58	12.2	-10.3
19,224.0	92.05	180.97	13,097.8	-5,571.5	1,237.4	1.85	1.82	0.32	10.1	-12.4
19,319.0	91.44	179.12	13,094.9	-5,666.5	1,237.3	2.05	-0.64	-1.95	7.0	-13.1
19,415.0	90.90	179.44	13,092.9	-5,762.4	1,238.5	0.65	-0.56	0.33	4.9	-12.6
19,511.0	88.36	177.83	13,093.5	-5,858.4	1,240.8	3.13	-2.65	-1.68	5.4	-11.0
19,607.0	89.30	178.85	13,095.5	-5,954.3	1,243.6	1.44	0.98	1.06	7.2	-8.9
19,703.0	91.10	179.59	13,095.2	-6,050.3	1,244.9	2.03	1.87	0.77	6.7	-8.3
19,799.0	86.61	178.74	13,097.1	-6,146.3	1,246.3	4.76	-4.68	-0.89	8.4	-7.6
19,895.0	89.63	177.92	13,100.2	-6,242.2	1,249.1	3.26	3.15	-0.85	11.4	-5.4
19,991.0	91.07	178.03	13,099.6	-6,338.1	1,252.5	1.50	1.50	0.11	10.7	-2.7
20,087.0	89.36	177.38	13,099.3	-6,434.0	1,256.3	1.91	-1.78	-0.68	10.2	0.4



Final PVA

Company:	Midland	Local Co-ordinate Reference:	Well #751H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3333.0usft
Site:	Ophelia 22 Fed Com	MD Reference:	KB = 25' @ 3333.0usft
Well:	#751H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	PEDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
20,183.0	89.56	179.13	13,100.2	-6,530.0	1,259.2	1.83	0.21	1.82	10.9	2.7	
20,278.0	87.02	177.97	13,103.0	-6,624.9	1,261.7	2.94	-2.67	-1.22	13.6	4.4	
20,374.0	91.31	180.25	13,104.4	-6,720.8	1,263.1	5.06	4.47	2.37	14.8	5.2	
20,471.0	93.85	181.93	13,100.0	-6,817.7	1,261.3	3.14	2.62	1.73	10.3	2.7	
20,567.0	90.84	181.07	13,096.1	-6,913.6	1,258.8	3.26	-3.14	-0.90	6.2	-0.5	
20,652.0	88.83	181.01	13,096.4	-6,998.6	1,257.2	2.37	-2.36	-0.07	6.3	-2.7	
20,748.0	92.05	182.66	13,095.6	-7,094.5	1,254.2	3.77	3.35	1.72	5.5	-6.4	
20,844.0	93.62	181.77	13,090.9	-7,190.3	1,250.5	1.88	1.64	-0.93	0.6	-10.8	
20,940.0	92.62	180.82	13,085.7	-7,286.1	1,248.3	1.44	-1.04	-0.99	-4.8	-13.7	
21,036.0	90.23	177.90	13,083.3	-7,382.1	1,249.4	3.93	-2.49	-3.04	-7.4	-13.3	
21,132.0	91.14	176.46	13,082.1	-7,477.9	1,254.1	1.77	0.95	-1.50	-8.7	-9.2	
21,197.0	91.44	175.20	13,080.7	-7,542.8	1,258.8	1.99	0.46	-1.94	-10.3	-4.9	
Final MWD Survey (MD=21197.0')											
21,256.0	91.44	175.20	13,079.2	-7,601.5	1,263.8	0.00	0.00	0.00	-11.8	-0.4	
Final Projection to Bit (MD=21256.0') - PBHL (Ophelia 22 Fed Com #751H)											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,735.0	12,561.7	690.8	1,208.5	KOP (MD=12735.0')
13,546.7	13,025.3	102.0	1,230.9	HL Crossing, MD:13546.7', TVD:13025.3', N/S:102.0', E/W:1230.9', INC:87.76
21,197.0	13,080.7	-7,542.8	1,258.8	Final MWD Survey (MD=21197.0')
21,256.0	13,079.2	-7,601.5	1,263.8	Final Projection to Bit (MD=21256.0')

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 08/23/2021



Lea County, NM (NAD 83 NME)

Ophelia 22 Fed Com #751H

Plan #1

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

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

WELL DETAILS: #751H

KB = 25' @ 3333.0usft
Northing 377562.00 Easting 779540.00 Latitude 32° 2' 8.404 N Longitude 103° 33' 52.636 W

Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.15°

Magnetic Field
Strength: 47413.8nT
Dip Angle: 59.74°
Date: 3/1/2021
Model: IGRF2020

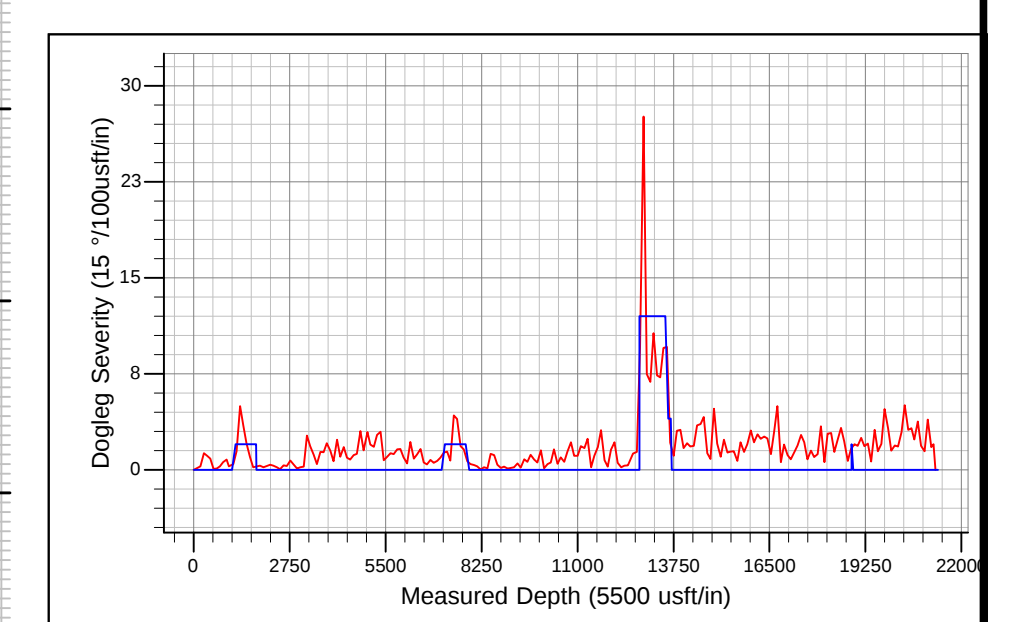
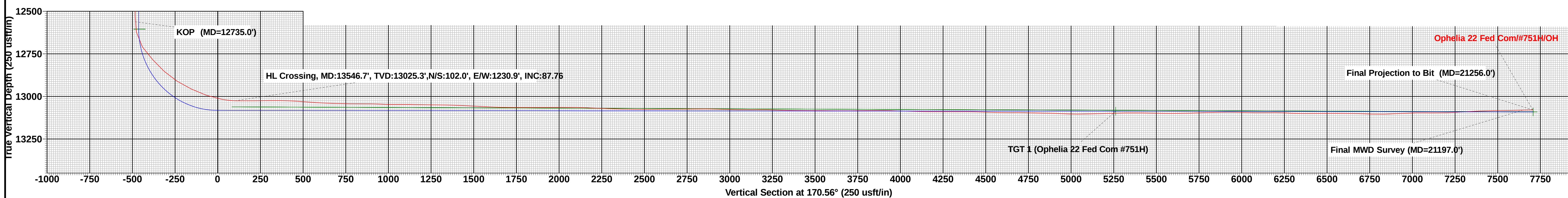
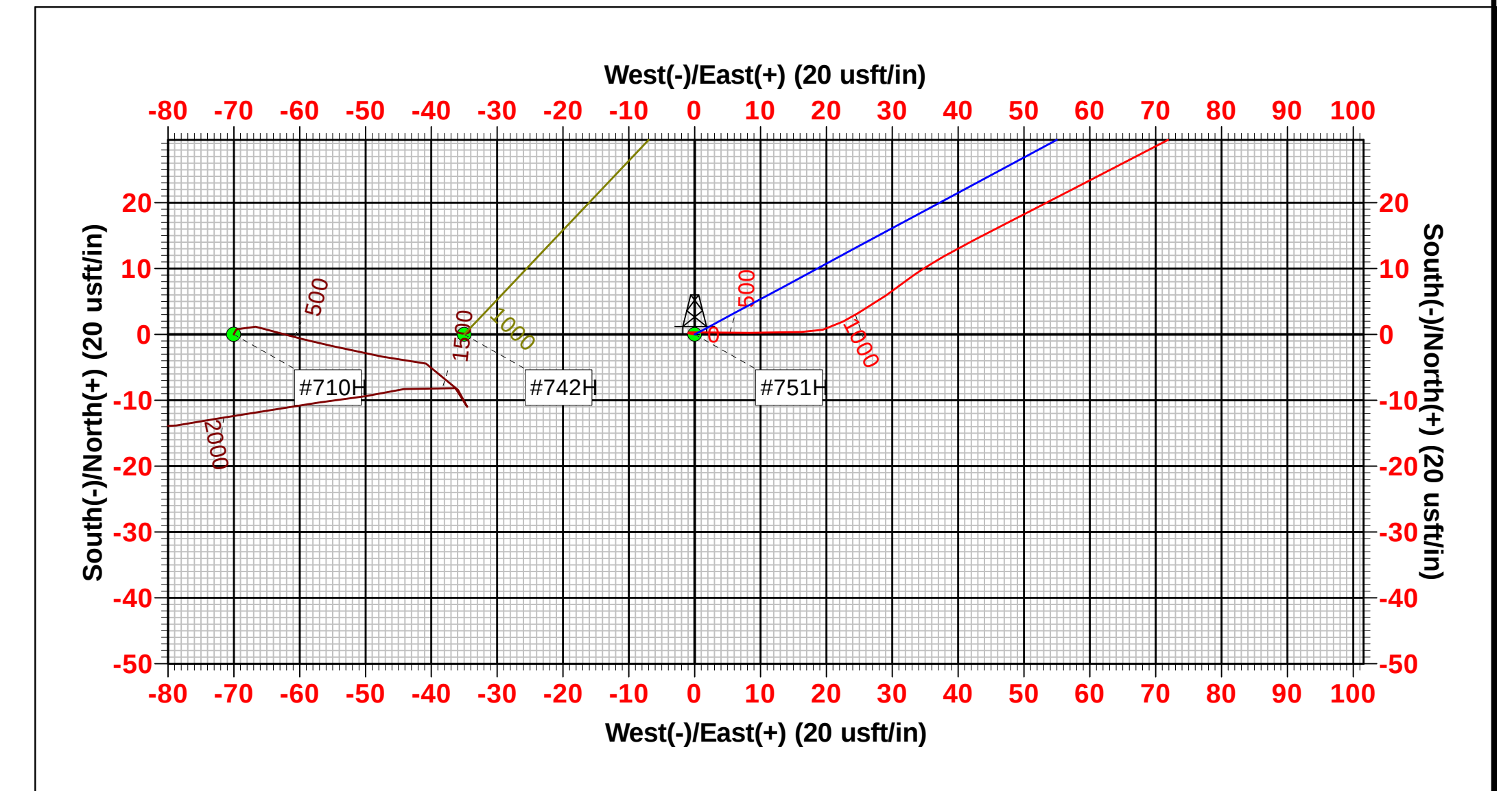
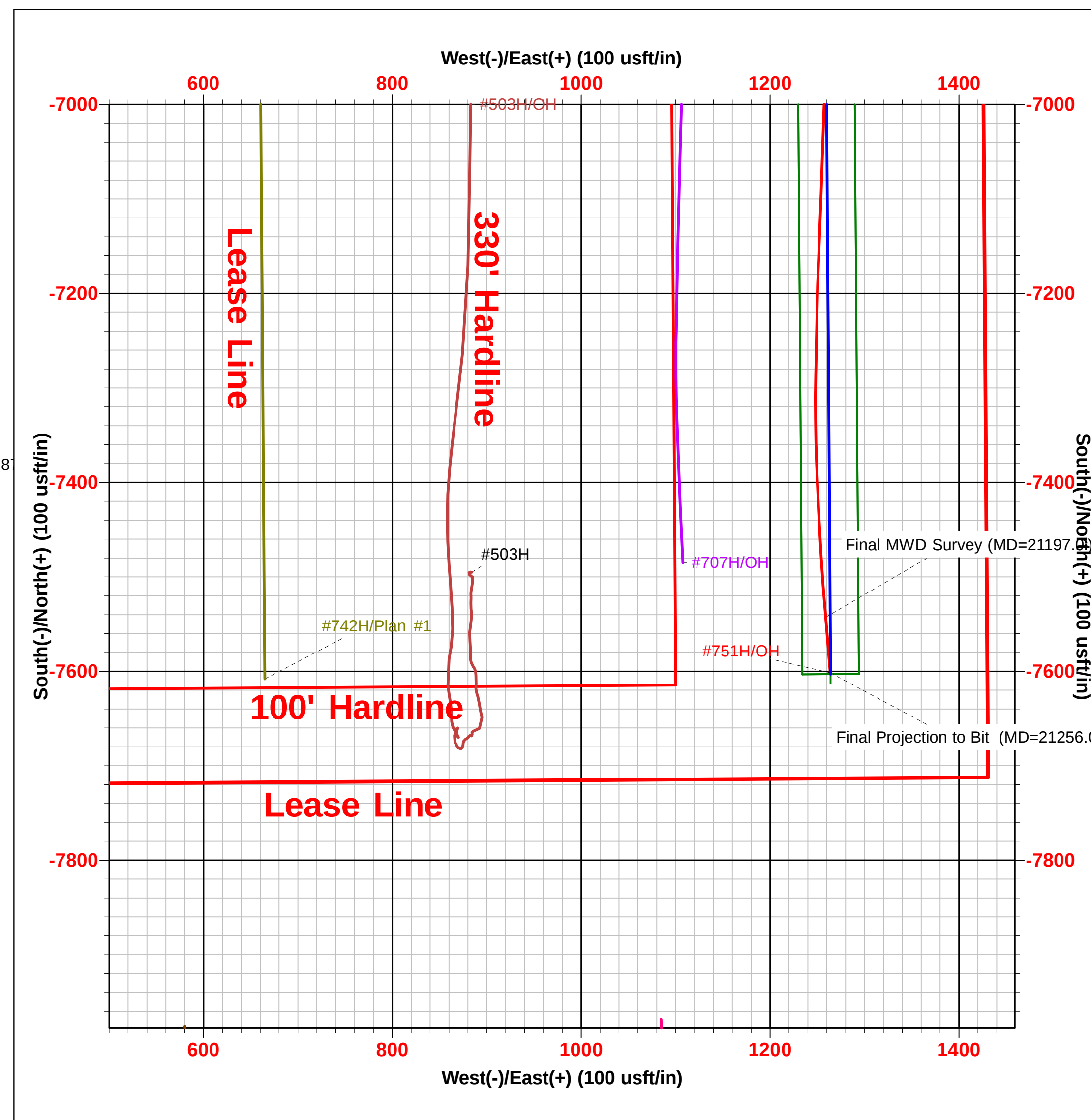
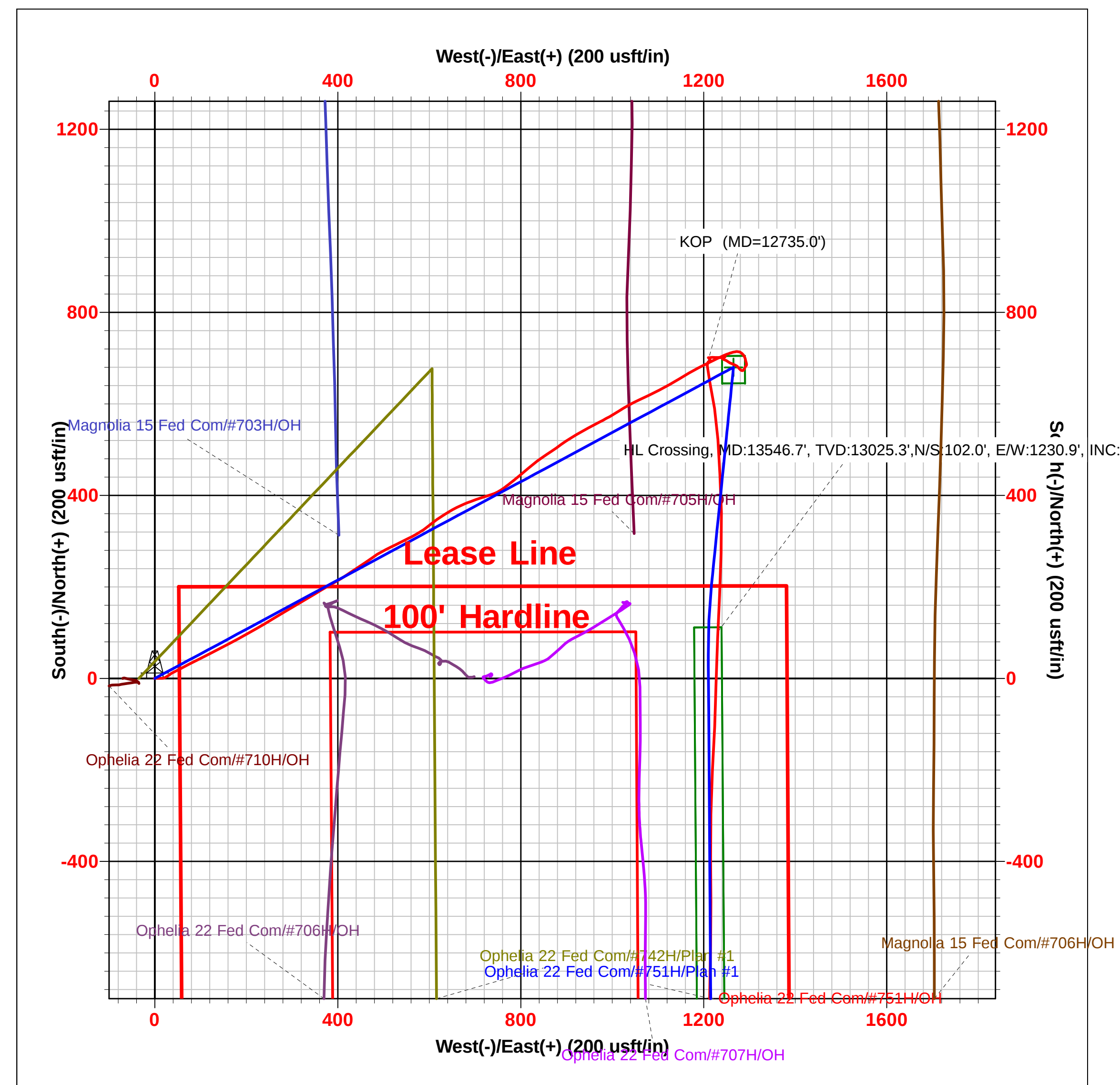
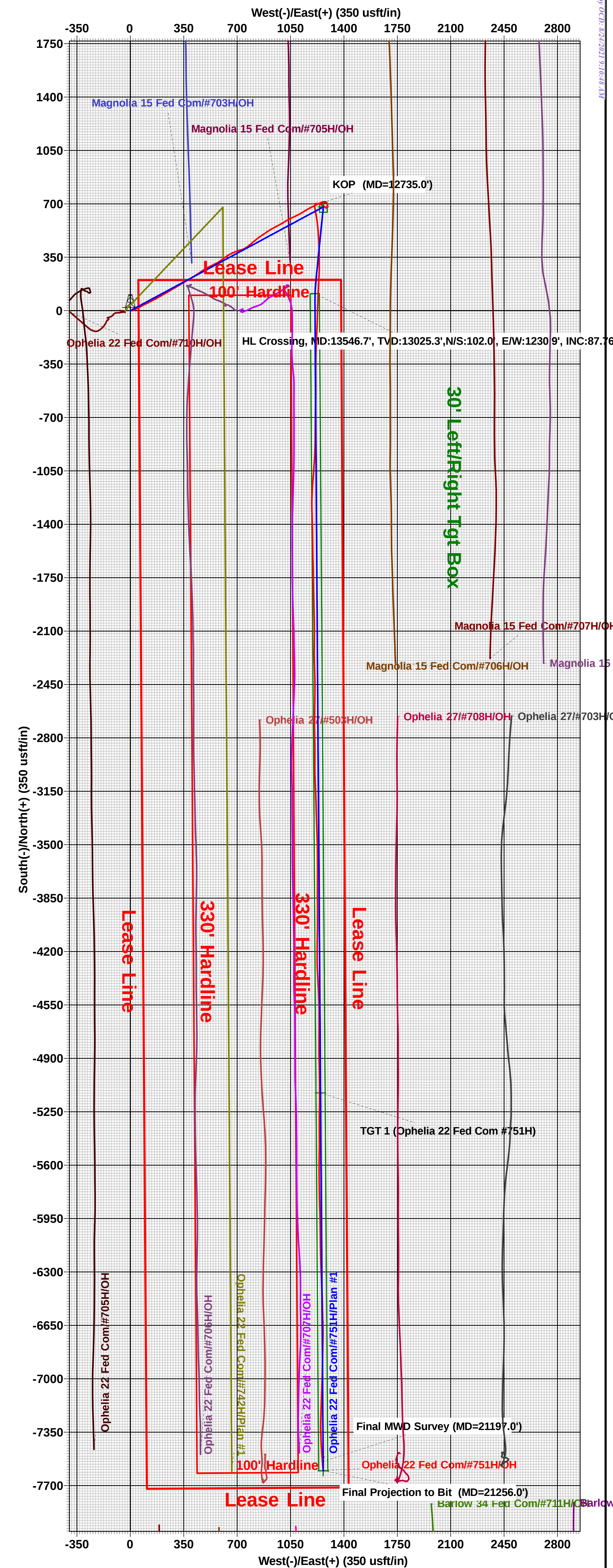
To convert a Magnetic Direction to a Grid Direction, Add 6.15°
To convert a Magnetic Direction to a True Direction, Add 6.56° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

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	1790.7	13.81	61.74	1784.0	39.2	73.0	2.00	61.74	-26.7	
4	7111.5	13.81	61.74	6951.0	640.8	1192.0	0.00	0.00	-436.6	
5	7802.2	0.00	179.59	7635.0	680.0	1265.0	2.00	180.00	-463.3	
6	12771.7	0.00	179.59	12604.5	680.0	1265.0	0.00	0.00	-463.3	KOP (Ophelia 22 Fed Com #751H)
7	13521.3	89.95	185.76	13082.0	205.4	1217.1	12.00	185.76	-2.9	
8	13675.5	89.95	179.59	13082.1	51.5	1209.9	4.00	-90.04	147.7	
9	18853.7	89.95	179.59	13087.0	-5126.6	1246.6	0.00	0.00	5261.6	TGT 1 (Ophelia 22 Fed Com #751H)
10	18855.6	89.91	179.59	13087.0	-5128.5	1246.6	2.00	-177.90	5263.5	
11	21330.1	89.91	179.59	13091.0	-7603.0	1264.2	0.00	0.00	7707.4	PBHL (Ophelia 22 Fed Com #751H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (Ophelia 22 Fed Com #751H)	12604.5	680.0	1265.0	378242.00	780805.00
TGT 1 (Ophelia 22 Fed Com #751H)	13087.0	-5126.6	1246.6	372435.40	780786.60
PBHL (Ophelia 22 Fed Com #751H)	13091.0	-7603.0	1264.2	369959.00	780804.20



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 OPHELIA 22 FEDERAL COM		
								6. Well Number: 751H		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER _____										
8. Name of Operator EOG RESOURCES INC						9. OGRID 7377				
10. Address of Operator PO BOX 2267 MIDLAND, TEXAS 79702						11. Pool name or Wildcat SANDERS TANK; UPPER WOLFCAMP (98097)				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	D	22	26S	33E		200	NORTH	1269	WEST	LEA
BH:	F	27	26S	33E		2541	NORTH	2490	WEST	LEA
13. Date Spudded 04/17/2021	14. Date T.D. Reached 05/20/2021		15. Date Rig Released 05/21/2021			16. Date Completed (Ready to Produce) 08/06/2021		17. Elevations (DF and RKB, RT, GR, etc.) 3308' GR		
18. Total Measured Depth of Well MD 21,256' TVD 13,079'			19. Plug Back Measured Depth MD 21,229' TVD 13,079'			20. Was Directional Survey Made? YES		21. Type Electric and Other Logs Run None		
22. Producing Interval(s), of this completion - Top, Bottom, Name WOLFCAMP 13,586 - 21,229										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
10 3/4"		36# J-55		1,075'		12 1/4"		527 CL C/CIRC		
7 5/8"		29.7# ECP 110		12,645'		8 3/4"		1731 CL C & H/CIRC		
5 1/2"		20# HCP 110		21,238'		6 3/4"		845 CL H TOC 12,430'		CBL
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET			
26. Perforation record (interval, size, and number) 13,586 - 21,229' 3 1/8", 2268 holes						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						13,586 - 21,229		FRAC W/19,200,571 lbs proppant, 356,031 bbls load fld		
28. PRODUCTION										
Date First Production 08/06/2021		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) Flowing				Well Status (<i>Prod. or Shut-in</i>) Producing				
Date of Test 08/08/2021	Hours Tested 24	Choke Size 68	Prod'n For Test Period	Oil - Bbl 1699	Gas - MCF 4788	Water - Bbl. 9248	Gas - Oil Ratio 2818			
Flow Tubing Press.	Casing Pressure 1299	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (<i>Corr.</i>) 48				
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>) SOLD								30. Test Witnessed By		
31. List Attachments C-102, C-104, C-103, Directional Survey, H spacing										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.										
33. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude _____				Longitude _____				NAD 1927 1983		
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature Kay Maddox			Name Kay Maddox			Title Senior Regulatory Specialist			Date 08/23/2021	
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	923'	T. Canyon	Brushy	8189'	T. Ojo Alamo	T. Penn A "
T. Salt		1260'	T. Strawn			T. Kirtland	T. Penn. "B"
B. Salt		4877'	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	10,261'		T. Entrada	
T. Wolfcamp	12,348'		T. 2nd BS Sand	10,859'		T. Wingate	
T. Penn			T. 3RD BS Sand	11,924'		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 44013

ACKNOWLEDGMENTS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 44013
	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.

District I
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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

CONDITIONS

Action 44013

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 44013
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	None	9/27/2021