

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

State of New Mexico
Energy, Minerals & Natural
Resources

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

Oil Conservation Division
1220 South St. Francis Dr.

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE MINERAL AUTHORIZATION TO TRANSPORT

¹ Operator name and Address EOG RESOURCES INC PO BOX 2267 MIDLAND, TEXAS 79702		² OGRID Number 7377	
		³ Reason for Filing Code/ Effective Date NW 05/31/2022	
⁴ API Number 30 - 025-49235	⁵ Pool Name WC025 G09 S263406D; LOWER BONE SPRING		⁶ Pool Code 98038
⁷ Property Code 4050	⁸ Property Name DIAMOND 31 FEDERAL COM		⁹ Well Number 502H

II. ¹⁰ Surface Location

UI or lot no. M	Section 31	Township 24S	Range 34E	Lot Idn	Feet from the 558	North/South Line SOUTH	Feet from the 532	East/West line WEST	County LEA
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¹¹ Bottom Hole Location

UL or lot no. L	Section 30	Township 24S	Range 34E	Lot Idn	Feet from the 2529	North/South line SOUTH	Feet from the 1122	East/West line WEST	County LEA
¹² Lse Code	¹³ Producing Method Code FLOWING	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date		

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
372812	EOGRM	OIL
151618	ENTERPRISE FIELD SERVICES	GAS
298751	REGENCY FIELD SERVICES	GAS
36785	DCP MIDSTREAM	GAS

IV. Well Completion Data

²¹ Spud Date 02/18/2022	²² Ready Date 05/31/2022	²³ TD 18,481	²⁴ PBDT 18,440	²⁵ Perforations 11,019 - 18,440	²⁶ DHC, MC		
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set		³⁰ Sacks Cement	
17 1/2"		13 3/8"		1300'		894 SXS CL C/CIRC	
12 1/4"		9 5/8"		5238'		1655 SXS CL C/CIRC	
8 3/4"		5 1/2"		18,456'		3225 SXS CL C & H/TOC 1750' CBL	

V. Well Test Data

³¹ Date New Oil 05/31/2022	³² Gas Delivery Date 05/31/2022	³³ Test Date 06/11/2022	³⁴ Test Length 24 HRS	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 570
³⁷ Choke Size 64	³⁸ Oil 2437	³⁹ Water 5405	⁴⁰ Gas 3610		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: Kay Maddox			OIL CONSERVATION DIVISION Approved by: Title: Approval Date: 		
Printed name: Kay Maddox					
Title: SENIOR REGULATORY SPECIALIST					
E-mail Address: kay_maddox@eogresources.com					
Date: 06/24/2022		Phone: 432-638-8475			

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
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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) 476-3460 Fax: (505) 476-3462

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

As-Completed Plat
Revised August 1, 2011
Submit one copy to appropriate
District Office
☒ AMENDED REPORT

AS-COMPLETED PLAT

API Number 30-025-49235	Pool Code 4050	Pool Name WC025 G09 S263406D; LOWER BONE SPRING
Property Code 98038	Property Name DIAMOND 31 FED COM	Well Number 502H
OGRID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3467'

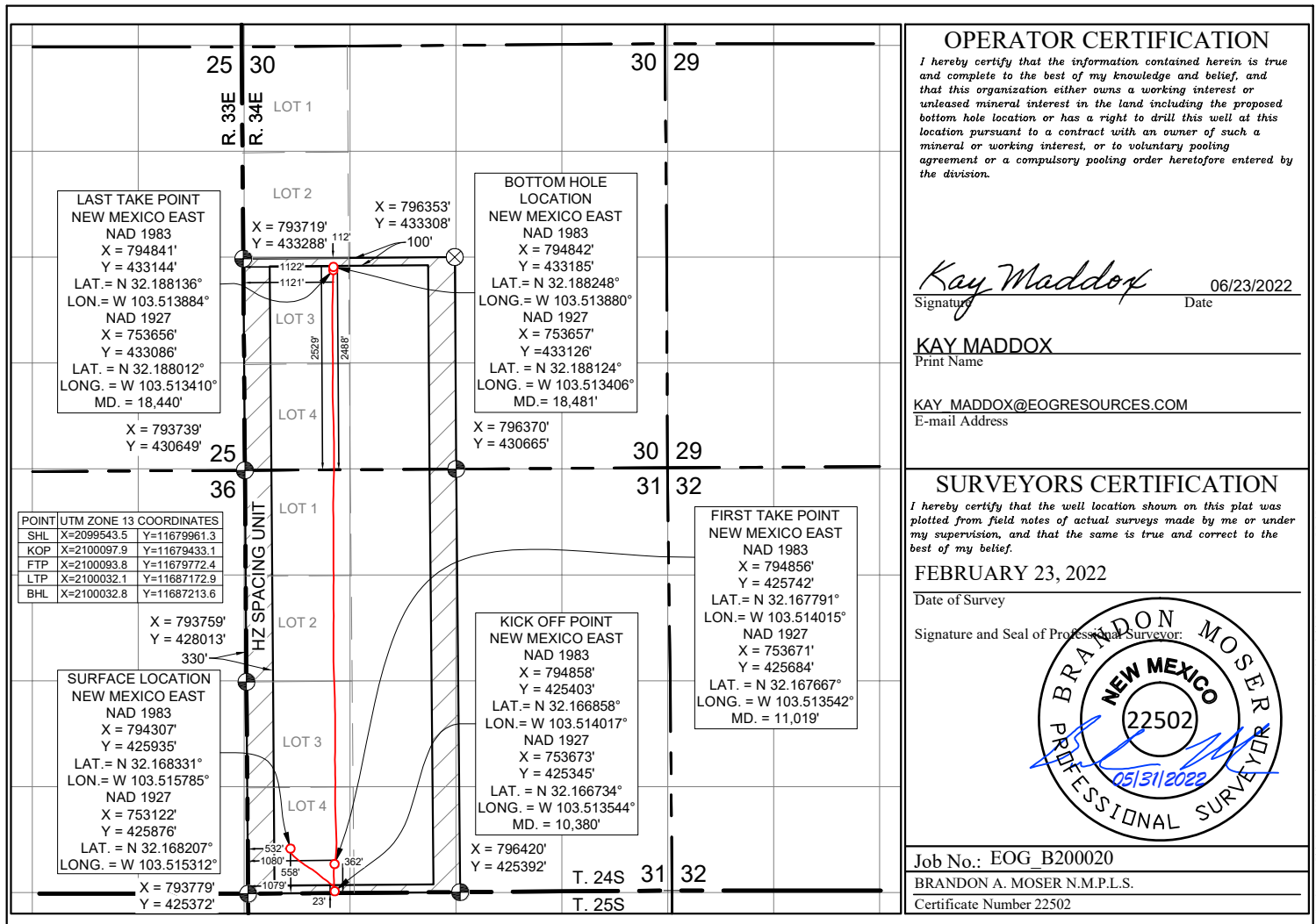
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	31	24 S	34 E		558	SOUTH	532	WEST	LEA

Bottom 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	30	24 S	34 E		2529	SOUTH	1122	WEST	LEA
Dedicated Acres 480.00	Joint or Infill	Consolidated Code	Order No.						

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)

Diamond 31 Fed Com

#502H

OH

Design: OH

Final PVA

20 April, 2022





Final PVA



Company:	Midland	Local Co-ordinate Reference:	Well #502H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3493.0usft
Site:	Diamond 31 Fed Com	MD Reference:	kb = 26' @ 3493.0usft
Well:	#502H	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	Diamond 31 Fed Com		
Site Position:		Northing:	425,996.00 usft
From:	Map	Easting:	794,470.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 6.586 N
		Longitude:	103° 30' 54.929 W
		Grid Convergence:	0.44 °

Well		#502H				
Well Position	+N-S	0.0 usft	Northing:	425,935.00 usft	Latitude:	32° 10' 5.994 N
	+E-W	0.0 usft	Easting:	794,307.00 usft	Longitude:	103° 30' 56.830 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,467.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/26/2022	6.42	59.83	47,385.31730971

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	4.05

Survey Program	Date	4/20/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200.0	18,481.0	Gordon MWD (OH)	EOG MWD+IFR1	MWD + IFR1



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Well:	#502H	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	
200.0	0.83	161.03	200.0	-1.4	0.5	0.41	0.41	0.00	-1.4	0.0	
301.0	1.49	168.87	301.0	-3.4	1.0	0.67	0.65	7.76	-3.5	0.3	
473.0	0.72	186.10	472.9	-6.6	1.3	0.48	-0.45	10.02	-6.4	2.0	
658.0	0.64	225.30	657.9	-8.5	0.4	0.25	-0.04	21.19	-5.7	6.3	
846.0	0.73	189.56	845.9	-10.4	-0.5	0.23	0.05	-19.01	-10.4	1.2	
1,035.0	1.10	242.80	1,034.9	-12.4	-2.3	0.47	0.20	28.17	-7.8	10.0	
1,224.0	0.58	235.51	1,223.9	-13.8	-4.7	0.28	-0.28	-3.86	-11.7	8.7	
1,319.0	0.84	218.08	1,318.9	-14.6	-5.6	0.35	0.27	-18.35	-14.9	4.6	
1,509.0	2.91	165.00	1,508.8	-20.4	-5.2	1.31	1.09	-27.94	-16.6	-11.4	
1,698.0	3.73	164.71	1,697.4	-30.9	-2.3	0.43	0.43	-0.15	-16.3	-18.9	
1,887.0	6.94	154.74	1,885.6	-47.2	4.2	1.76	1.70	-5.28	-8.9	-31.7	
2,076.0	8.93	143.91	2,072.8	-69.4	17.7	1.31	1.05	-5.73	-5.5	-40.1	
2,265.0	9.63	133.35	2,259.3	-92.1	37.8	0.97	0.37	-5.59	-4.6	-43.9	
2,453.0	9.82	130.27	2,444.6	-113.3	61.5	0.29	0.10	-1.64	-10.5	-44.4	
2,642.0	9.61	129.09	2,630.9	-133.6	86.0	0.15	-0.11	-0.62	-17.7	-44.0	
2,831.0	9.23	128.54	2,817.4	-153.0	110.1	0.21	-0.20	-0.29	-24.6	-43.1	
3,019.0	8.95	126.47	3,003.0	-171.1	133.7	0.23	-0.15	-1.10	-29.2	-42.4	
3,208.0	8.62	125.84	3,189.8	-188.1	157.0	0.18	-0.17	-0.33	-33.9	-40.6	
3,396.0	8.75	124.08	3,375.6	-204.4	180.3	0.16	0.07	-0.94	-37.6	-39.0	
3,585.0	8.88	123.19	3,562.4	-220.4	204.4	0.10	0.07	-0.47	-42.5	-36.4	
3,774.0	8.45	121.82	3,749.3	-235.7	228.4	0.25	-0.23	-0.72	-46.6	-33.8	
3,962.0	7.78	120.69	3,935.4	-249.5	251.1	0.37	-0.36	-0.60	-49.3	-30.5	
4,151.0	7.13	123.13	4,122.8	-262.5	271.9	0.38	-0.34	1.29	-51.5	-24.4	
4,340.0	5.96	125.87	4,310.5	-274.6	289.7	0.64	-0.62	1.45	-50.4	-19.1	
4,528.0	5.28	126.58	4,497.6	-285.5	304.5	0.36	-0.36	0.38	-45.4	-16.4	
4,716.0	6.08	123.06	4,684.7	-296.1	319.8	0.46	0.43	-1.87	-39.5	-16.2	



Final PVA



Company:	Midland	Local Co-ordinate Reference:	Well #502H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3493.0usft
Site:	Diamond 31 Fed Com	MD Reference:	kb = 26' @ 3493.0usft
Well:	#502H	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)
4,904.0	4.76	129.00	4,871.9	-306.4	334.2	0.76	-0.70	3.16	-34.9	-10.0
4,999.0	5.46	132.63	4,966.5	-312.0	340.6	0.81	0.74	3.82	-32.0	-7.8
5,185.0	4.31	128.55	5,151.8	-322.3	352.6	0.65	-0.62	-2.19	-23.7	-9.5
5,381.0	6.05	135.53	5,347.0	-334.3	365.6	0.94	0.89	3.56	-17.7	-7.4
5,570.0	9.82	131.57	5,534.2	-352.1	384.6	2.01	1.99	-2.10	-19.4	-9.3
5,759.0	10.36	124.96	5,720.2	-372.5	410.6	0.68	0.29	-3.50	-27.7	-10.7
5,948.0	9.66	120.86	5,906.4	-390.4	438.2	0.53	-0.37	-2.17	-36.4	-9.5
6,136.0	9.81	133.56	6,091.7	-409.5	463.3	1.14	0.08	6.76	-45.4	1.3
6,325.0	9.85	131.04	6,277.9	-431.2	487.2	0.23	0.02	-1.33	-53.9	-1.2
6,514.0	9.23	126.65	6,464.3	-450.9	511.5	0.51	-0.33	-2.32	-61.3	-4.6
6,703.0	8.54	125.57	6,651.0	-468.1	535.1	0.38	-0.37	-0.57	-66.8	-3.6
6,892.0	7.53	125.20	6,838.2	-483.4	556.6	0.54	-0.53	-0.20	-69.6	-1.5
7,080.0	3.15	126.76	7,025.3	-493.6	570.8	2.33	-2.33	0.83	-63.4	2.7
7,269.0	1.13	137.75	7,214.2	-498.1	576.3	1.09	-1.07	5.81	-45.0	13.1
7,458.0	1.18	254.29	7,403.1	-500.0	575.6	1.04	0.03	61.66	17.8	16.1
7,646.0	0.87	252.62	7,591.1	-500.9	572.4	0.17	-0.16	-0.89	4.6	1.2
7,835.0	0.75	236.41	7,780.1	-502.1	570.0	0.14	-0.06	-8.58	0.0	-3.5
8,023.0	1.00	218.74	7,968.1	-504.0	568.0	0.19	0.13	-9.40	-1.8	-3.8
8,212.0	1.08	201.94	8,157.0	-507.0	566.3	0.17	0.04	-8.89	-4.0	-4.6
8,401.0	1.05	185.88	8,346.0	-510.3	565.4	0.16	-0.02	-8.50	-6.0	-6.0
8,590.0	0.59	181.96	8,535.0	-513.0	565.2	0.25	-0.24	-2.07	-8.3	-6.5
8,778.0	0.63	166.24	8,723.0	-515.0	565.4	0.09	0.02	-8.36	-8.1	-8.8
8,967.0	0.66	188.01	8,912.0	-517.1	565.5	0.13	0.02	11.52	-12.9	-4.7
9,155.0	0.80	170.06	9,100.0	-519.5	565.6	0.14	0.07	-9.55	-13.1	-8.8
9,344.0	0.50	195.61	9,288.9	-521.5	565.6	0.22	-0.16	13.52	-17.7	-1.7
9,533.0	0.71	229.07	9,477.9	-523.1	564.5	0.21	0.11	17.70	-17.5	8.8
9,722.0	0.94	276.42	9,666.9	-523.7	562.1	0.37	0.12	25.05	-7.8	19.7



Final PVA



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Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3493.0usft
Site:	Diamond 31 Fed Com	MD Reference:	kb = 26' @ 3493.0usft
Well:	#502H	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)
9,911.0	1.03	212.99	9,855.9	-525.0	559.6	0.55	0.05	-33.56	-23.5	0.5
10,099.0	1.24	232.55	10,043.9	-527.6	557.1	0.23	0.11	10.40	-25.6	8.9
10,260.0	1.61	231.56	10,204.8	-530.1	553.9	0.23	0.23	-0.61	-29.8	8.4
10,355.0	1.65	227.35	10,299.8	-531.8	551.9	0.13	0.04	-4.43	-33.0	6.1
10,380.0	2.70	317.16	10,324.8	-531.6	551.2	12.63	4.19	359.23	5.4	33.4
KOP, MD:10380.0', TVD:10324.8', N/S:-531.6', E/W:551.2', INC:2.70										
10,449.0	11.10	341.45	10,393.2	-524.1	548.0	12.63	12.18	35.21	10.8	29.0
10,543.0	25.96	356.46	10,482.1	-494.8	543.8	16.48	15.81	15.97	-1.2	28.1
10,625.4	32.12	358.74	10,554.1	-454.9	542.2	7.60	7.48	2.77	-19.7	29.4
FTP Crossing, MD:10625.4', TVD:10554.1', N/S:-454.9', E/W:542.2', INC:32.12										
10,638.0	33.07	359.02	10,564.7	-448.1	542.1	7.60	7.50	2.22	-22.3	29.6
10,732.0	33.39	359.00	10,643.4	-396.6	541.2	0.34	0.34	-0.02	-35.6	29.7
10,826.0	41.49	356.42	10,718.0	-339.6	538.8	8.78	8.62	-2.74	-40.2	30.3
10,920.0	48.14	3.95	10,784.6	-273.5	539.2	9.04	7.07	8.01	-36.3	32.8
11,015.0	62.51	9.40	10,838.6	-196.2	548.6	15.84	15.13	5.74	-35.6	23.9
11,109.0	74.91	7.84	10,872.6	-109.7	561.7	13.28	13.19	-1.66	-41.8	9.3
11,203.0	75.17	4.14	10,896.9	-19.4	571.1	3.81	0.28	-3.94	-41.3	-2.3
11,297.0	77.38	359.17	10,919.2	71.8	573.8	5.65	2.35	-5.29	-26.2	-6.3
11,391.0	86.42	358.04	10,932.5	164.8	571.5	9.69	9.62	-1.20	-11.5	-4.6
11,485.0	87.83	356.89	10,937.2	258.5	567.3	1.93	1.50	-1.22	-5.2	-1.1
11,580.0	88.92	358.87	10,939.9	353.4	563.8	2.38	1.15	2.08	-1.0	1.7
11,675.0	89.99	358.33	10,940.8	448.4	561.5	1.26	1.13	-0.57	1.5	3.3
11,769.0	91.11	357.49	10,939.9	542.3	558.1	1.49	1.19	-0.89	2.1	6.0
11,863.0	90.88	0.69	10,938.2	636.3	556.6	3.41	-0.24	3.40	2.0	6.8
11,957.0	92.09	1.01	10,935.8	730.2	558.0	1.33	1.29	0.34	1.1	4.7
12,052.0	88.67	359.90	10,935.2	825.2	558.7	3.78	-3.60	-1.17	2.0	3.2
12,146.0	88.89	359.30	10,937.2	919.2	558.1	0.68	0.23	-0.64	5.5	3.1



Final PVA



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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12,241.0	88.42	358.23	10,939.4	1,014.2	556.0	1.23	-0.49	-1.13	9.3	4.5
12,335.0	89.73	0.06	10,940.9	1,108.1	554.6	2.39	1.39	1.95	12.4	5.2
12,429.0	92.90	0.27	10,938.8	1,202.1	554.9	3.38	3.37	0.22	11.7	4.2
12,524.0	93.52	359.50	10,933.4	1,296.9	554.7	1.04	0.65	-0.81	8.0	3.7
12,618.0	92.51	0.61	10,928.5	1,390.8	554.8	1.60	-1.07	1.18	4.6	2.9
12,712.0	91.61	1.23	10,925.1	1,484.7	556.3	1.16	-0.96	0.66	2.7	0.6
12,807.0	89.15	359.65	10,924.5	1,579.7	557.0	3.08	-2.59	-1.66	3.6	-0.8
12,901.0	91.22	359.26	10,924.2	1,673.7	556.1	2.24	2.20	-0.41	4.9	-0.6
12,996.0	91.28	358.75	10,922.1	1,768.7	554.5	0.54	0.06	-0.54	4.3	0.3
13,090.0	92.40	358.90	10,919.1	1,862.6	552.6	1.20	1.19	0.16	2.9	1.5
13,185.0	93.32	357.98	10,914.4	1,957.4	550.0	1.37	0.97	-0.97	-0.3	3.4
13,279.0	94.62	357.80	10,907.9	2,051.2	546.5	1.40	1.38	-0.19	-5.3	6.1
13,373.0	92.00	358.06	10,902.4	2,144.9	543.1	2.80	-2.79	0.28	-9.2	8.8
13,468.0	91.64	358.16	10,899.4	2,239.8	540.0	0.39	-0.38	0.11	-10.7	11.2
13,562.0	92.34	356.51	10,896.1	2,333.7	535.6	1.91	0.74	-1.76	-12.4	14.9
13,656.0	92.87	1.40	10,891.9	2,427.5	533.9	5.23	0.56	5.20	-15.2	15.9
13,750.0	92.17	359.57	10,887.7	2,521.4	534.7	2.08	-0.74	-1.95	-17.7	14.4
13,845.0	91.16	0.50	10,885.0	2,616.4	534.8	1.44	-1.06	0.98	-19.0	13.6
13,939.0	91.87	0.38	10,882.5	2,710.3	535.5	0.77	0.76	-0.13	-19.9	12.1
14,034.0	89.48	0.90	10,881.4	2,805.3	536.6	2.57	-2.52	0.55	-19.5	10.4
14,128.0	90.46	0.13	10,881.4	2,899.3	537.4	1.33	1.04	-0.82	-17.9	8.8
14,222.0	90.41	358.97	10,880.7	2,993.3	536.7	1.24	-0.05	-1.23	-17.1	8.8
14,316.0	91.30	358.54	10,879.3	3,087.3	534.6	1.05	0.95	-0.46	-16.9	10.2
14,411.0	90.88	1.38	10,877.5	3,182.3	534.6	3.02	-0.44	2.99	-17.2	9.5
14,505.0	91.36	0.98	10,875.7	3,276.2	536.5	0.66	0.51	-0.43	-17.5	6.9
14,599.0	91.58	0.17	10,873.2	3,370.2	537.4	0.89	0.23	-0.86	-18.4	5.2
14,694.0	91.39	359.05	10,870.8	3,465.1	536.8	1.20	-0.20	-1.18	-19.3	5.1



Final PVA



Company:	Midland	Local Co-ordinate Reference:	Well #502H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3493.0usft
Site:	Diamond 31 Fed Com	MD Reference:	kb = 26' @ 3493.0usft
Well:	#502H	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)
14,788.0	93.16	359.01	10,867.1	3,559.0	535.2	1.88	1.88	-0.04	-21.5	6.0
14,882.0	90.29	0.15	10,864.2	3,653.0	534.5	3.28	-3.05	1.21	-22.8	6.0
14,977.0	90.80	0.25	10,863.3	3,748.0	534.8	0.55	0.54	0.11	-22.1	4.9
15,071.0	89.87	359.91	10,862.8	3,842.0	535.0	1.05	-0.99	-0.36	-21.2	4.1
15,166.0	91.44	359.57	10,861.7	3,937.0	534.5	1.69	1.65	-0.36	-20.7	3.8
15,260.0	91.36	359.84	10,859.4	4,030.9	534.1	0.30	-0.09	0.29	-21.5	3.6
15,355.0	90.69	359.89	10,857.7	4,125.9	533.8	0.71	-0.71	0.05	-21.6	3.1
15,449.0	90.24	359.41	10,856.9	4,219.9	533.3	0.70	-0.48	-0.51	-20.8	3.0
15,543.0	92.09	0.66	10,855.0	4,313.9	533.3	2.38	1.97	1.33	-21.2	2.2
15,638.0	91.55	1.39	10,852.0	4,408.8	535.0	0.96	-0.57	0.77	-22.7	-0.2
15,732.0	92.12	1.16	10,849.0	4,502.8	537.1	0.65	0.61	-0.24	-24.2	-3.0
15,826.0	90.83	1.20	10,846.6	4,596.7	539.0	1.37	-1.37	0.04	-25.0	-5.7
15,921.0	91.64	0.91	10,844.5	4,691.7	540.8	0.91	0.85	-0.31	-25.5	-8.2
16,015.0	89.37	0.98	10,843.7	4,785.6	542.3	2.42	-2.41	0.07	-24.8	-10.4
16,109.0	89.59	0.00	10,844.5	4,879.6	543.1	1.07	0.23	-1.04	-22.4	-11.9
16,203.0	90.49	359.27	10,844.5	4,973.6	542.5	1.23	0.96	-0.78	-20.6	-12.0
16,297.0	90.77	358.82	10,843.4	5,067.6	541.0	0.56	0.30	-0.48	-19.5	-11.2
16,391.0	90.83	358.63	10,842.1	5,161.6	538.9	0.21	0.06	-0.20	-18.7	-9.8
16,486.0	91.14	359.36	10,840.5	5,256.6	537.2	0.83	0.33	0.77	-18.2	-8.9
16,580.0	91.08	358.73	10,838.7	5,350.5	535.7	0.67	-0.06	-0.67	-17.9	-8.0
16,675.0	91.13	358.08	10,836.8	5,445.5	533.0	0.69	0.05	-0.68	-17.6	-6.1
16,769.0	91.56	356.45	10,834.6	5,539.3	528.5	1.79	0.46	-1.73	-17.7	-2.4
16,863.0	91.75	359.77	10,831.9	5,633.2	525.4	3.54	0.20	3.53	-18.3	0.0
16,958.0	92.79	0.37	10,828.2	5,728.2	525.5	1.26	1.09	0.63	-20.0	-0.9
17,052.0	91.67	0.62	10,824.5	5,822.1	526.4	1.22	-1.19	0.27	-21.5	-2.4
17,146.0	90.52	0.31	10,822.7	5,916.1	527.1	1.27	-1.22	-0.33	-21.2	-3.9
17,240.0	90.29	0.08	10,822.0	6,010.1	527.4	0.35	-0.24	-0.24	-19.8	-4.9

Company:	Midland	Local Co-ordinate Reference:	Well #502H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	kb = 26' @ 3493.0usft
Site:	Diamond 31 Fed Com	MD Reference:	kb = 26' @ 3493.0usft
Well:	#502H	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)	
17,334.0	91.08	359.87	10,820.9	6,104.0	527.4	0.87	0.84	-0.22	-18.8	-5.6	
17,428.0	91.56	359.20	10,818.8	6,198.0	526.6	0.88	0.51	-0.71	-18.8	-5.5	
17,523.0	93.07	359.17	10,814.9	6,292.9	525.3	1.59	1.59	-0.03	-20.5	-4.9	
17,617.0	90.55	359.05	10,811.9	6,386.9	523.8	2.68	-2.68	-0.13	-21.4	-4.2	
17,711.0	91.61	358.47	10,810.2	6,480.8	521.8	1.29	1.13	-0.62	-21.1	-2.9	
17,805.0	90.97	359.89	10,808.1	6,574.8	520.4	1.66	-0.68	1.51	-21.1	-2.3	
17,900.0	92.48	359.67	10,805.2	6,669.7	520.1	1.61	1.59	-0.23	-21.8	-2.6	
17,994.0	90.97	2.14	10,802.4	6,763.7	521.6	3.08	-1.61	2.63	-22.5	-4.8	
18,088.0	89.65	1.83	10,801.9	6,857.6	524.8	1.44	-1.40	-0.33	-20.9	-8.8	
18,182.0	90.07	1.42	10,802.1	6,951.6	527.5	0.62	0.45	-0.44	-18.6	-12.2	
18,277.0	91.84	1.45	10,800.5	7,046.5	529.9	1.86	1.86	0.03	-18.1	-15.3	
18,371.0	93.41	1.24	10,796.2	7,140.4	532.1	1.69	1.67	-0.22	-20.3	-18.2	
Last MWD Survey (MD=18371.0')											
18,481.0	93.41	1.24	10,789.7	7,250.2	534.5	0.00	0.00	0.00	-24.3	-21.5	
Projection to Bit (MD=18481.0')											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,380.0	10,324.8	-531.6	551.2	KOP, MD:10380.0', TVD:10324.8',N/S:-531.6', E/W:551.2', INC:2.70
10,625.4	10,554.1	-454.9	542.2	FTP Crossing, MD:10625.4', TVD:10554.1',N/S:-454.9', E/W:542.2', INC:32.12
18,371.0	10,796.2	7,140.4	532.1	Last MWD Survey (MD=18371.0')
18,481.0	10,789.7	7,250.2	534.5	Projection to Bit (MD=18481.0')

Checked By: _____ Approved By: _____ Date: _____

I CERTIFY THIS SURVEY TO BE TRUE AND CORRECT TO THE BEST OF MY BELIEF AND KNOWLEDGE KAY MADDOX 06/23/2022



Lea County, NM (NAD 83 NME)

Diamond 31 Fed Com #502H

Plan #1

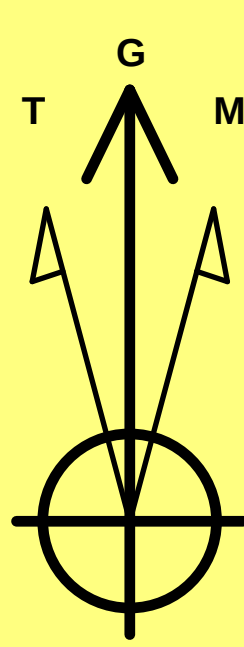
PROJECT DETAILS: Lea County, NM (NAD 83 NME)

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: #502H

3467.0
Northing 425935.00 kb = 26' @ 3493.0usft Easting 794307.00 Latitude 32° 10' 5.994 N Longitude 103° 30' 56.830 W

Azimuths to Grid North
True North: -0.44°
Magnetic North: 5.99°
Magnetic Field
Strength: 47385.3nT
Dip Angle: 59.83°
Date: 3/26/2022
Model: IGRF2020



To convert a Magnetic Direction to a Grid Direction, Add 5.99°
To convert a Magnetic Direction to a True Direction, Add 6.42° East
To convert a True Direction to a Grid Direction, Subtract 0.44°

SECTION DETAILS

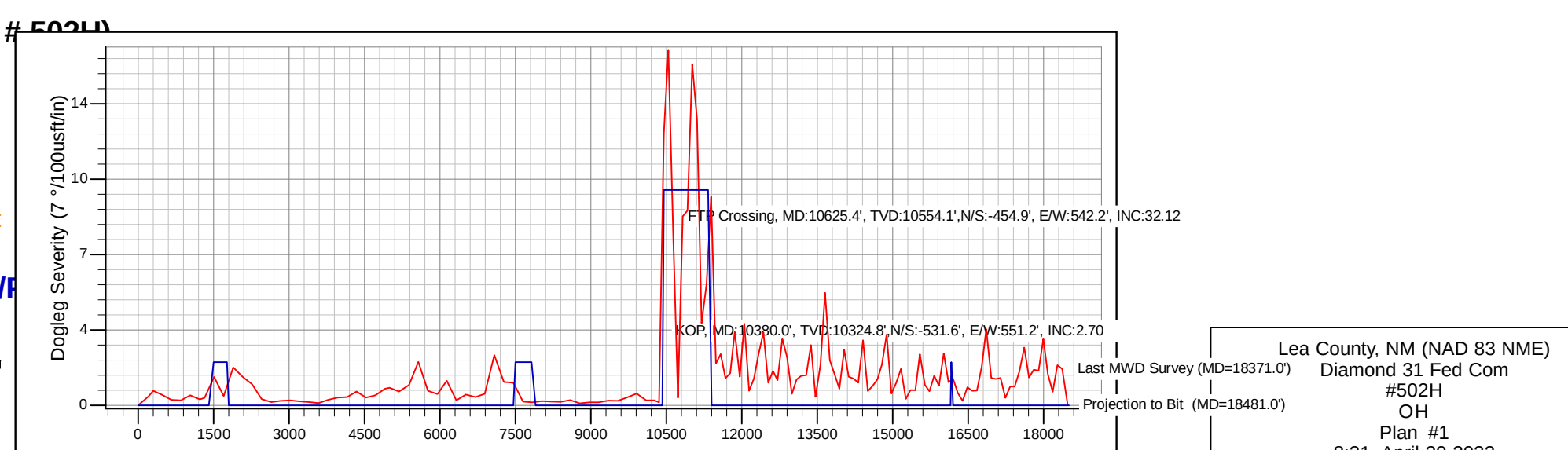
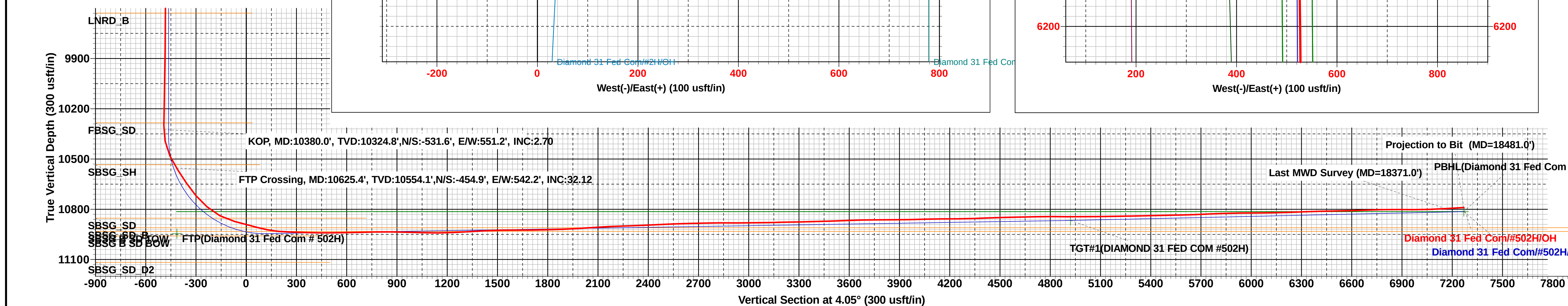
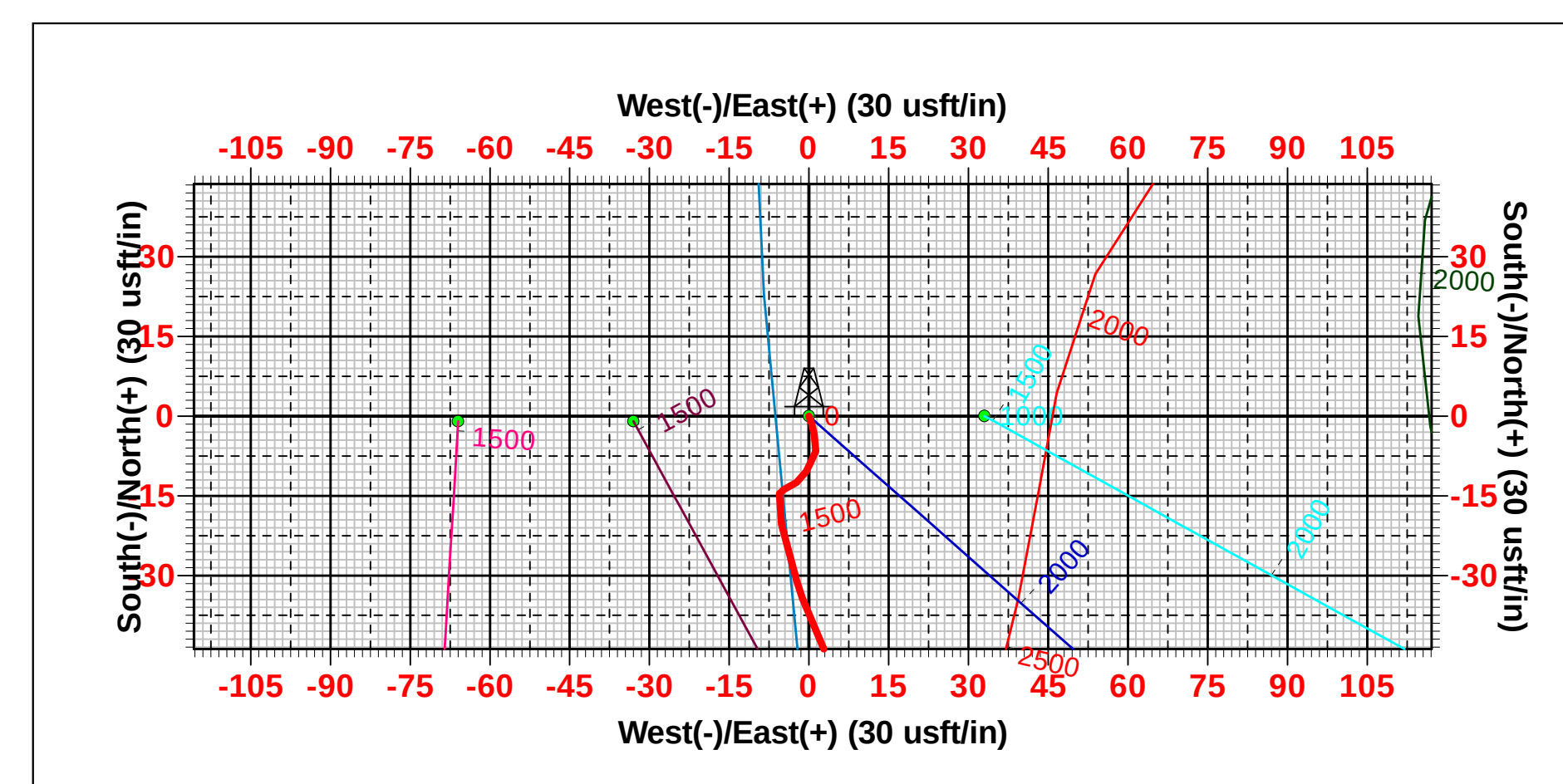
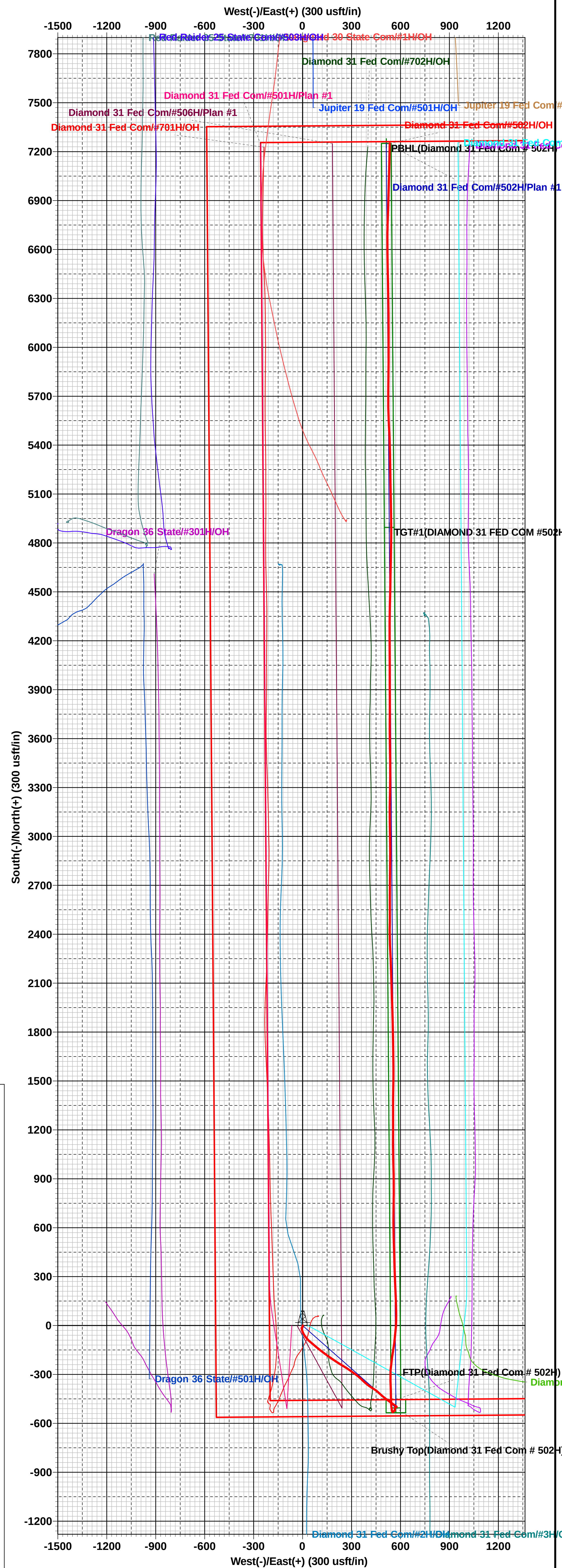
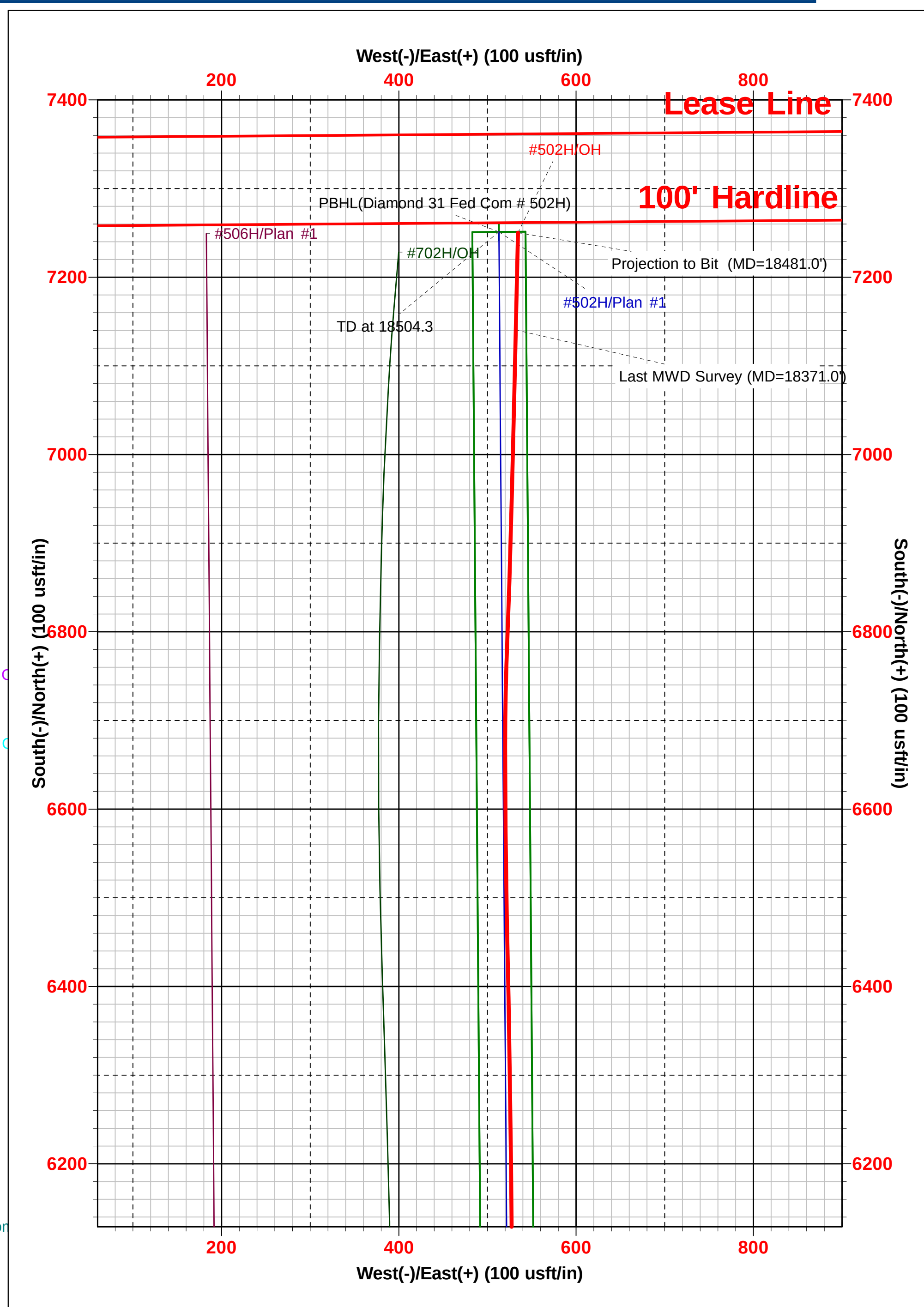
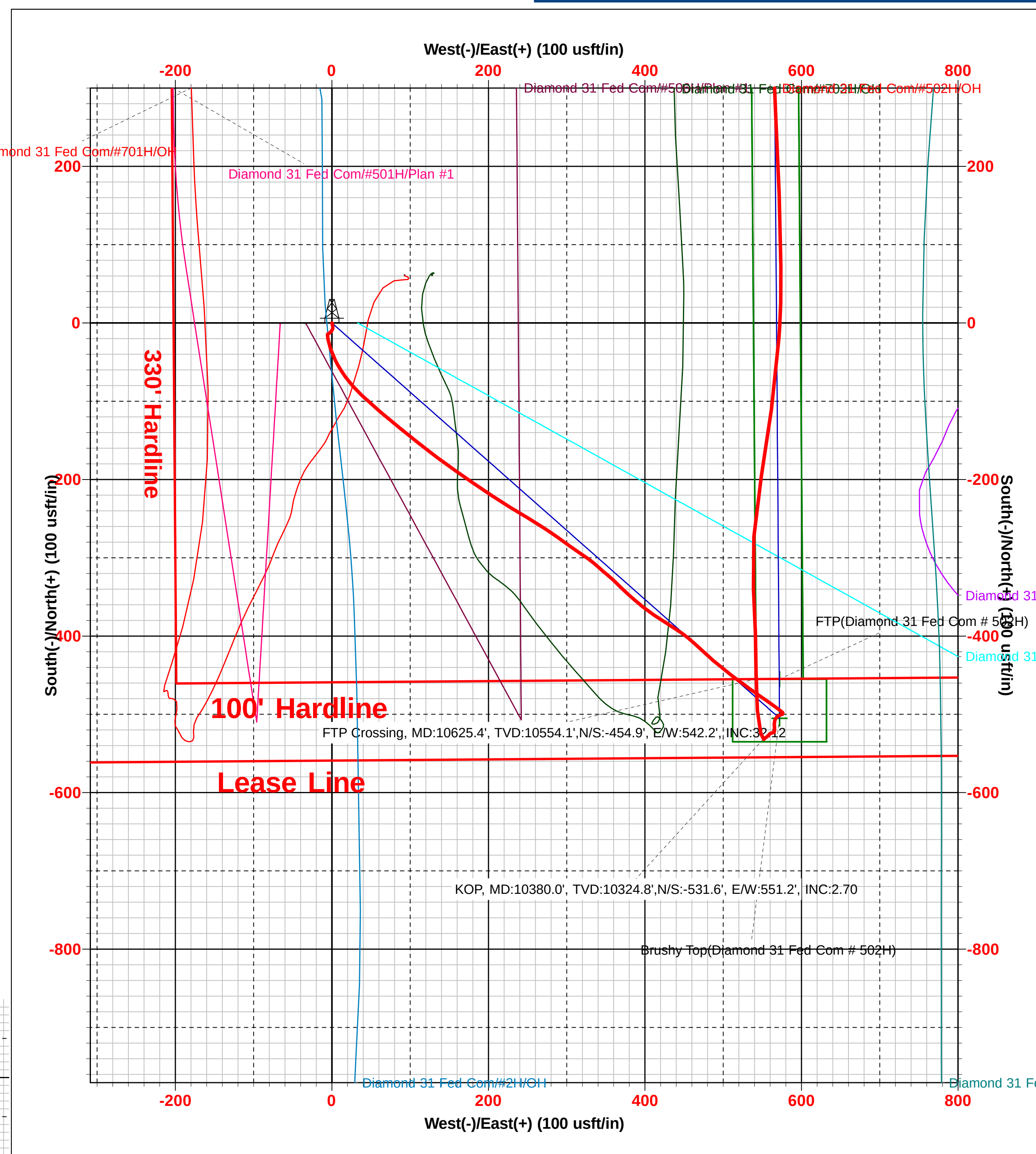
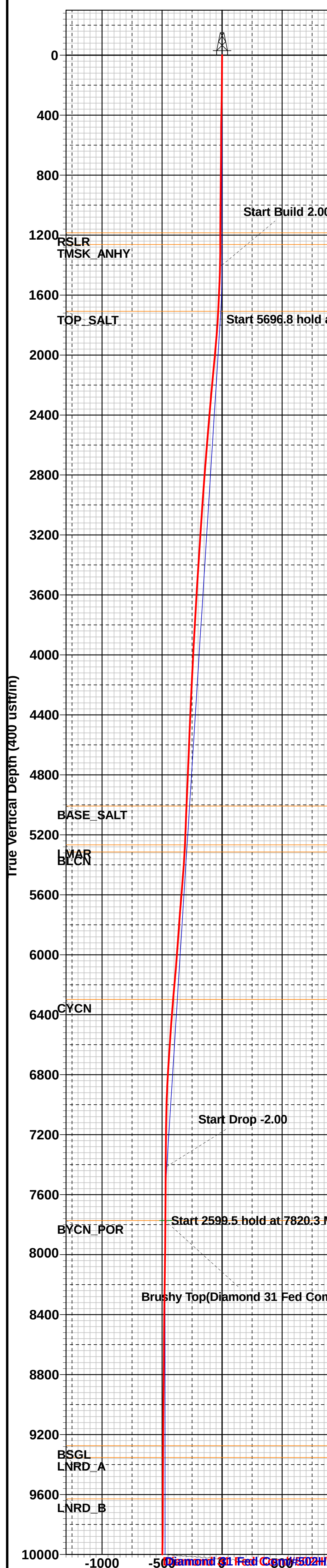
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1400.0	0.00	0.00	1400.0	0.0	0.0	0.00	0.00	0.0	
3	1761.7	7.23	131.44	1760.8	-15.1	17.1	2.00	131.44	-13.9	
4	7458.5	7.23	131.44	7412.2	-489.9	554.9	0.00	0.00	-449.5	
5	7820.3	0.00	0.00	7773.0	-505.0	572.0	2.00	180.00	-463.4	Brushy Top(Diamond 31 Fed Com # 502H)
6	10419.8	0.00	0.00	10372.5	-505.0	572.0	0.00	0.00	-463.4	
7	11329.1	90.94	359.57	10945.4	77.3	567.6	10.00	359.57	117.2	
8	16148.2	90.94	359.57	10866.7	4895.6	531.1	0.00	0.00	4920.9	TGT#1(DIAMOND 31 FED COM #502H)
9	16165.6	91.28	359.56	10866.4	4913.0	531.0	2.00	-1.05	4938.2	
10	18504.3	91.28	359.56	10814.0	7251.0	513.0	0.00	0.00	7269.1	PBHL(Diamond 31 Fed Com # 502H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top(Diamond 31 Fed Com # 502H)	7773.0	-505.0	572.0	425430.00	794879.00
PBHL(Diamond 31 Fed Com # 502H)	10814.0	7251.0	513.0	433186.00	794820.00
TGT#1(DIAMOND 31 FED COM #502H)	10866.7	4895.6	531.1	430830.60	794838.10
FTP(Diamond 31 Fed Com # 502H)	10946.0	-455.0	572.0	425480.00	794879.00



Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised August 1, 2011					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								5. Lease Name or Unit Agreement Name		
								DIAMOND 31 FEDERAL COM 6. Well Number: 502H		
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								WC025 G09 S263406D; LOWER BONE SPRING (98038)		
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	M	31	24S	34E		558	SOUTH	532	WEST	LEA
BH:	L	30	24S	34E		2529	SOUTH	1122	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.)		
02/18/2022	04/05/2022		04/06/2022			05/31/2022		3468' GR		
18. Total Measured Depth of Well			19. Plug Back Measured Depth			20. Was Directional Survey Made?		21. Type Electric and Other Logs Run		
MD 18,481' TVD 10,789'			MD 18,440' TVD 10,789'			YES		None		
22. Producing Interval(s), of this completion - Top, Bottom, Name										
BONE SPRING 11,019 - 18,440'										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13 3/8"		54.5# J-55		1,300'		17 1/2"		894 CL C/CIRC		
9 5/8"		40# J-55		5,238'		12 1/4"		1655 CL C/CIRC		
5 1/2"		20# ICYP 110		18,456'		8 3/4"		3225 CL C&H/TOC 1750' CBL		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET			
26. Perforation record (interval, size, and number)						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
11,019 - 18,440' 3 1/8", 1620 holes						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						11,019 - 18,440'		FRAC W/17,027,921 lbs proppant, 249,378 bbls load fld		
28. PRODUCTION										
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)				
05/31/2022		Flowing				Producing				
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio			
06/11/2022	24	64		2437	3610	5405	1481			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)				
	570					46				
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 Kay Maddox			Name Kay Maddox			Title Senior Regulatory Specialist			Date 06/24/2022	
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 1186'	T. Canyon Brushy 7774'	T. Ojo Alamo	T. Penn A"
T. Salt 1709'	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt 5009'	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 10,257'	T. Entrada	
T. Wolfcamp	T. 2nd BS Sand 10,826'	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

No. 1, from.....to.....
No. 2, from.....to.....
No. 3, from.....to.....
No. 4, from.....to.....

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

ACKNOWLEDGMENTS

Action 120395

ACKNOWLEDGMENTS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 120395
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 120395

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 120395
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report within 10 days of BLM approval.	1/7/2026